



United States Environmental Protection Agency
Underground Injection Control
Permit Application for a Class V Well
(Collected under the authority of the Safe Drinking Water Act. Sections 1421, 1422, and 40 CFR Part 144)

For Official Use Only

Date Received

Permit Number

Read Attached Instructions Before Starting

I. Owner Name, Address, Phone Number and/or Email	II. Operator Name, Address, Phone Number and/or Email
Montalban Oil & Gas Operations, Inc 33 - 1st Avenue SW Cut Bank, Montana 59427 (406) 873-2845 montemontalban@gmail.com	Montalban Oil & Gas Operations, Inc 33 - 1st Avenue SW Cut Bank, Montana 59427 (406) 873-2845 montemontalban@gmail.com

III. Commercial Facility	IV. Ownership	V. Permit Action Requested	VI. SIC Code(s)	VII. Indian Country
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Private <input type="checkbox"/> Federal <input type="checkbox"/> State/Tribal/Municipal	<input checked="" type="checkbox"/> New Permit <input type="checkbox"/> Permit Renewal <input type="checkbox"/> Modification <input type="checkbox"/> Add Well to Area Permit <input type="checkbox"/> Other	Non Classified	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

VIII. Type of Permit (For multiple wells, use additional page(s) to provide the information requested for each additional well)

<input type="checkbox"/> A. Individual	Number of Wells	Well Field and/or Project Names
<input checked="" type="checkbox"/> B. Area	2	Jody Field UIC Class II Well Conversion (Jody Field 34-1 and Jody Field 34-2)

IX. Class and Type of Well (see reverse)

A. Class	B. Type (enter code(s))	C. If type code is "X," explain.
V	J	

X. Well Status	XI. Well Information
<input checked="" type="checkbox"/> A. Operating <input type="checkbox"/> B. Conversion <input type="checkbox"/> C. Proposed Date Injection Started Date Well Constructed 08/16/2011 05/06/2008	API Number 25-073-21830 Permit (or EPA ID) Number MT5282 Full Well Name Jody Field 34-1

XII. Location of Well or, for Multiple Wells, Approximate Center of Field or Project

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location
 SW 1/4 of SW 1/4 of Section 34 Township 29N Range 6W

330 ft. from (N/S) S Line of quarter section
 2310 ft. from (E/W) W Line of quarter section.

Latitude 48°13'22" N
 Longitude 112°22'16" W

XIII. Attachments

In addition to this form, complete Attachments A-U (as appropriate for the specific well class) on separate sheets. Submit complete information, as required in the instructions and list all attachments, maps or other figures, by the applicable letter.

XIV. Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please Type or Print)	Signature	Date Signed
Patrick M. Montalban		10/11/22



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Montalban Oil & Gas Operations, Inc
 33 - 1st Avenue SW
 Cut Bank, Montana 59427
 (406) 873-2845
 montemontalban@gmail.com

II. Operator Name, Address, Phone Number and/or Email

Montalban Oil & Gas Operations, Inc
 33 - 1st Avenue SW
 Cut Bank, Montana 59427
 (406) 873-2845
 montemontalban@gmail.com

III. Commercial Facility

Yes
 No

IV. Ownership

Private
 Federal
 State/Tribal/
 Municipal

V. Permit Action Requested

New Permit
 Permit Renewal
 Modification
 Add Well to Area Permit
 Other

VI. SIC Code(s)

Non Classified

VII. Indian Country

Yes
 No

VIII. Type of Permit (For multiple wells, use additional page(s) to provide the information requested for each additional well)

A. Individual
 B. Area

Number of Wells
 2

Well Field and/or Project Names

Jody Field UIC Class II Well Conversion (Jody Field 34-1 and Jody Field 34-2)

IX. Class and Type of Well (see reverse)

A. Class
 V

B. Type (enter code(s))
 J

C. If type code is "X," explain.

X. Well Status

A. Operating
 B. Conversion
 C. Proposed
 Date Injection Started: 03/15/2010
 Date Well Constructed: 09/08/2008

XI. Well Information

API Number: 25-073-21838
 Permit (or EPA ID) Number: MT5253
 Full Well Name: Jody Field 34-2

XII. Location of Well or, for Multiple Wells, Approximate Center of Field or Project

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location

NW 1/4 of SW 1/4 of Section 34 Township 29N Range 6W

2310 ft. from (N/S) S Line of quarter section
 990 ft. from (E/W) W Line of quarter section.

Latitude: 48°13'42" N

Longitude: 112°22'36" W

XIII. Attachments

In addition to this form, complete Attachments A-U (as appropriate for the specific well class) on separate sheets. Submit complete information, as required in the instructions and list all attachments, maps or other figures, by the applicable letter.

XIV. Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please Type or Print)

Patrick M. Montalban

Signature

Date Signed

10/11/22

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment A Map(s) and Area of Review

Privileged and Confidential

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Figure 04. Jody field 34-2 Well Schematic

EXHIBITS

Exhibit A. Montana BOGC Well Record

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1. WELL LOCATIONS (40CFR § 144.3)

Montalban Oil & Gas Operations, Inc (Montalban) is submitting this area-wide underground injection control (UIC) permit application to USEPA Region 8 for conversion of two (2) existing Class II UIC wells and two (2) shut-in oil and gas wells to Class V UIC wells. The wells will be used for injection of industrial wastewater received from the Montana Renewables Fuels Refinery in Great Falls, Montana. The wells are located in the Loneman Coulee Oil Field north of Great Falls in Pondera County, Montana (**Figure 01**).

This application involves a phased approach with initial conversion of the two existing Class II wells and subsequent conversion of the two shut-in oil and gas wells, at a later date, to accommodate future wastewater volumes from the refinery.

The wells included in this area-wide application are listed in **Table 1** below. Wellbore schematics for Jody Field Wells 34-1 and 34-2 are included in **Figures 03 and 04**, respectively.

TABLE 1. Area-Wide Permit Application UIC Wells							
Well Name	API #	Well Owner	Well Operator	Well Coordinates	Well Depth (ft)	Injection Formation	Injection Interval (ft bls)
Jody Field 34-1	25-073-21830	Montalban	Montalban	48°13'31" N 112°22'26" W	3,538	Madison/ Sun River Dolomite	3,428- 3,538
Jody Field 34-2	25-073-21838	Montalban	Montalban	48°13'22" N 112°22'16" W	3,499	Madison/ Sun River Dolomite	3,418- 3,499
Jody Field 14-34	25-073-21740	Montalban	Montalban	48° 13'29" N 112° 22'27" W	3,415	Madison/ Sun River Dolomite	TBD
Jody Field 4-1A	25-073-21842	Montalban	Montalban	48° 13'16" N 112° 22'29" W	3,462	Madison/Su n River Dolomite	TBD

As illustrated on **Figure 01**, the area-wide UIC permit boundary was drawn to include the proposed Class V UIC wells within the Loneman Coulee Field. The GIS coordinates of each corner of the area-wide permit boundary are as follows.

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TABLE 2. Area Wide UIC Permit Boundary GIS Coordinates		
Corner	X Coordinate	Y Coordinate
NorthWest	-12510984.7968	6145834.8807
NorthEast	-12508131.2437	6145842.5415
SouthEast	-12508123.1499	6142827.6853
SouthWest	-12510976.7030	6142820.0245

2. AREA OF REVIEW SIZE DETERMINATION (40 CFR § 146.6)

An Area of Review (AoR) was established for the area-wide permit based on a delineated radius of 1/2 mile from the mapped area-wide boundary (**Figure 01**).

3. MAP(S) (40 CFR § 144.31)

Figure 02 includes a topographic map extending over one mile beyond the proposed project boundary. The Figure indicates the location of the proposed Class V injection wells, the area-wide UIC permit boundary, and the applicable AoR. The following features were not found, or known to be within, the mapped AoR:

- outcrops of injection and confining formations;
- surface water intake and discharge structures;
- hazardous waste treatment, storage, or disposal facilities;
- mines (surface and subsurface) and quarries; or
- residences, schools, and hospitals.

Within the extended topographic map area there are six (6) water wells documented, including one within the AoR (**Figure 02**). Details obtained from the MBMG GWIC database regarding the nearby water wells are included in **Table 3**.

TABLE 3. Water Wells Within the Topographic Map Area– Source: Montana Groundwater Information Center (GWIC)					
Well Owner Information	Aquifer	Date Completed	Well ID and Use	Well Depth (ft)	Static Water Level (ft)
Allen, John E. Valier, MT 59486	Sandstone Unit	1/1/1962	#83374 - Agricultural	207	160
Fed Land Bank 1	Unknown	Unknown	#915142 – NA	Unknown	Unknown
Allen 1	Unknown	Unknown	#915479 – NA	Unknown	Unknown
Pondera County Canal & Reservoir Co. Valier, MT 59486	Unknown	1/1/1912	#83372 – Domestic	Unknown	13

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TABLE 3. Water Wells Within the Topographic Map Area– Source: Montana Groundwater Information Center (GWIC)					
Well Owner Information	Aquifer	Date Completed	Well ID and Use	Well Depth (ft)	Static Water Level (ft)
Field, C.W. Jr. Valier, MT 59486	Unknown	1/19/1953	81476	109	17
Fields CW *8 Mi SW Valier Montana	Two Medicine Formation	Unknown	#6412 Domestic/ Stockwater	90	Unknown

4. PART IV. AREA OF REVIEW WELLS AND CORRECTIVE ACTION PLANS (40 CFR § 144.55)

The wells located within the AoR that penetrate the confining zones for the proposed Class V UIC wells are listed in **Table 4** below. These wells include oil and gas wells that are either plugged and abandoned (approved by the Montana BOGC) or shut-in.

TABLE 4. Wells Penetrating the Proposed Confining Zone						
Well Name or Type	API or Water Well #	Well Owner	Well Location	Well Depth (ft)	Formation	Well Status
Field 1-34A	25-073-21609	AltaMont Oil & Gas, Inc.	29N - 6W - 34 NW SW 1700 FSL, 1300 FWL	3,485	Madison	P&A Approved
Field 14-34	25-073-21740	Montalban Oil & Gas Operations, Inc.	29N - 6W - 34 SE SW 990 FSL, 1650 FWL	3,415	Madison	Shut-in
Jody Field 4-1	25-073-21824	AltaMont Oil & Gas, Inc.	28N - 6W - 04 NE NE 330 FNL, 430 FEL	3545	Madison	P&A Approved
Jody Field 4-1A	25-073-21842	Montalban Oil & Gas Operations, Inc.	28N - 6W - 04 NE, 330 FNL, 380 FEL	3,416	Sawtooth	Shut-in

The BOGC well records were researched to determine the availability of construction details, cement bond logs and records of well completion and plugging for each of the above oil and gas wells. The findings are presented in **Table 5** and included in Exhibit A.

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TABLE 5. BOGC Oil and Gas Well Records					
Well	Construction Details	Cement Bond Logs	Record of Well Completion	P&A Records	Confining Unit Penetrated
Field 1-34	Exhibit A	Not Available	Exhibit A	Exhibit A	Jurassic Ellis Group (above Mississippian Madison Aquifer)
Field 14-34	Exhibit A	Exhibit A	Exhibit A	Shut-in	Jurassic Ellis Group (above Mississippian Madison Aquifer)
Jody Field 4-1	Exhibit A	Exhibit A	Exhibit A	Exhibit A	Jurassic Ellis Group (above Mississippian Madison Aquifer)
Jody Field 4-1A	Exhibit A	Not Available	Exhibit A	Shut-in	Jurassic Ellis Group (above Mississippian Madison Aquifer)

5. PART V. LANDOWNER INFORMATION (40 CFR § 144.31 AND PART 147)

The UIC wells are located within the Loneman Coulee Oil Field in Pondera County, Montana. The land within the requested exemption area is used for oil and gas related activities and agriculture. The identities of the landowners within the AoR are provided in **Figure 01** and detailed in **Table 6** below.

TABLE 6. Landowners Within the Aquifer Exemption Area			
Landowner	Owner Address	Parcel #	Use
Field, Jody	5353 Range View Rd. Valier, MT 59486	26-4096-34-4-04-01-0000	Agricultural
Vandenbos, William D & Tamara K JTRos	453 Frances Heights Rd. Valier, MT 59486	26-4096-33-4-01-01-000	Agricultural
Vandenbos, Keith E & Leiha R. JTRos	2475 Seven Block Rd. Valier, MT 59486	26-4096-33-1-01-01-0000	Agricultural
Field, Jody	5353 Range View Rd. Valier, MT 59486	26-4096-34-2-03-03-0000	Agricultural
Field, Jody	5353 Range View Rd. Valier, MT 59486	26-4096-34-1-03-01-0000	Agricultural
Field Ranch Inc.	5353 Range View Rd. Valier, MT 59486	26-3984-03-2-02-02-0000	Agricultural
Field Ranch Inc.	5353 Range View Rd, Dupuyer, MT 59432	26-3984-04-1-01-01-0000	Agricultural
Field Ranch Inc.	5353 Range View Rd. Valier, MT 59486	26-3984-04-2-02-01-0000	Agricultural

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TABLE 6. Landowners Within the Aquifer Exemption Area			
Landowner	Owner Address	Parcel #	Use
Vandenbos, William D & Tamara K JTRos	453 Frances Heights Rd. Valier, MT 59486	26-4096-33-4-01-01-000	Agricultural

Privileged and Confidential

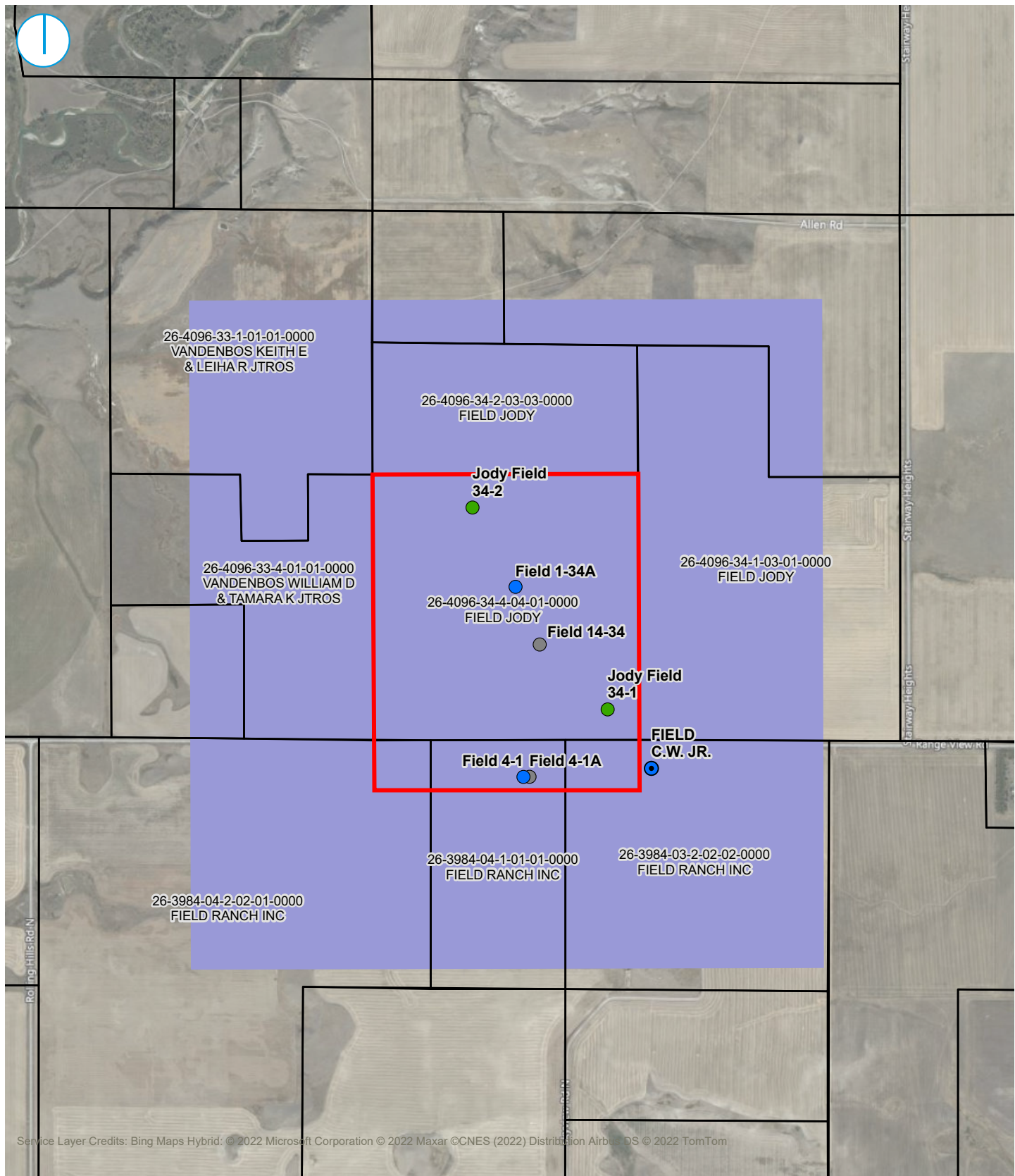
FIGURES

Figure 01. Well Locations, Area-Wide Permit Boundary and Area of Review Location

Figure 02. Topographic Map

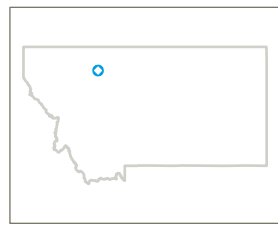
Figure 03. Jody Field 34-1 Well Schematic

Figure 04. Jody Field 34-2 Well Schematic



Service Layer Credits: Bing Maps Hybrid: © 2022 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution Airbus DS © 2022 TomTom

Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



- Active Injection
- P&A - Approved
- Shut In
- Water Well Location
- Parcel Boundaries
- Area- Wide UIC
- Area of Review (AOR)

WELL LOCATIONS, AREA-WIDE PERMIT BOUNDARY, LANDOWNERS AND AREA OF REVIEW LOCATION

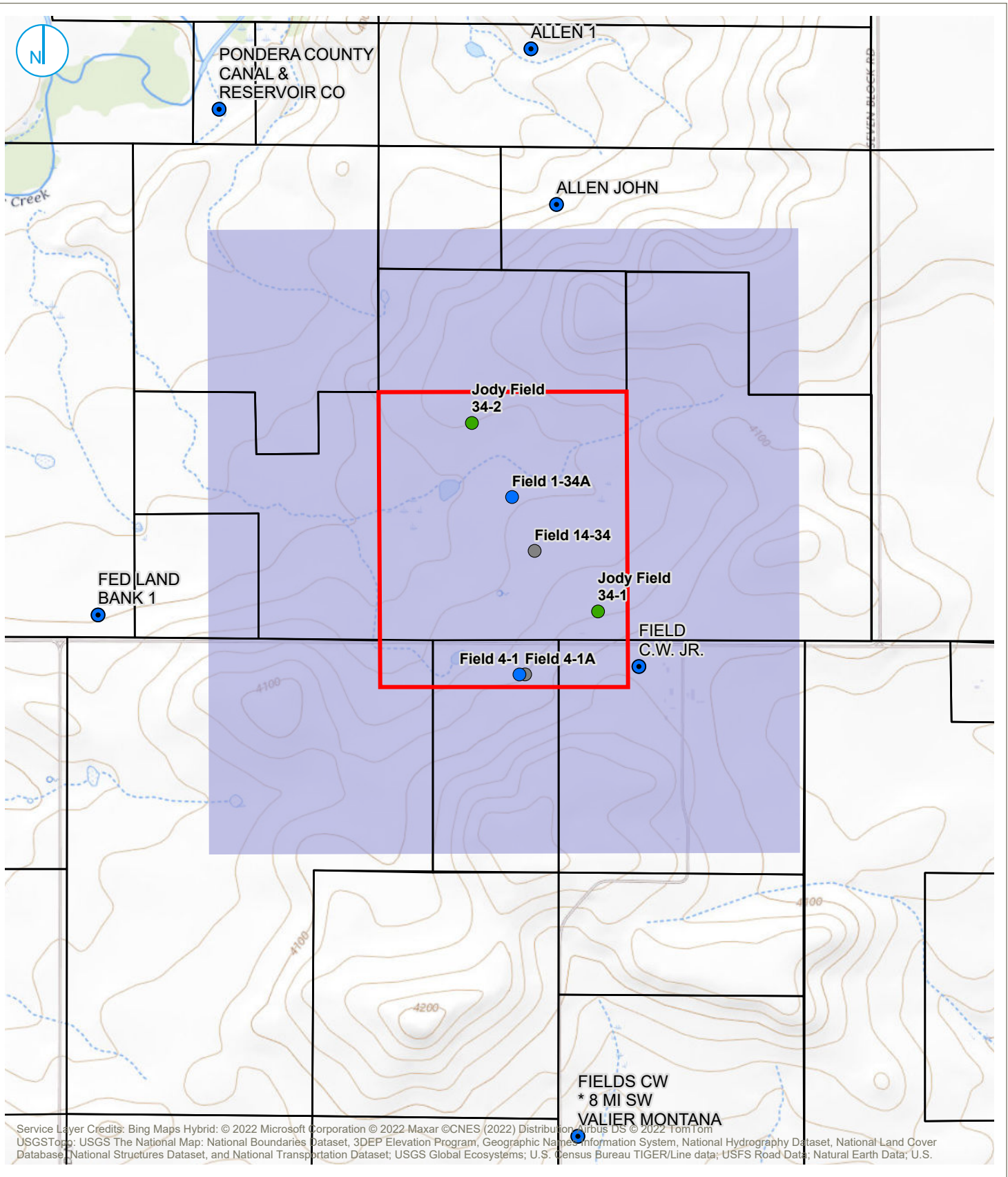
MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS



Attachment A Figure - 01

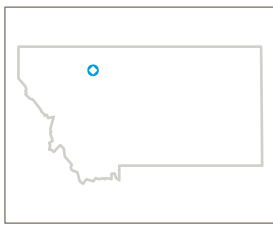
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





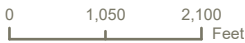
Service Layer Credits: Bing Maps Hybrid: © 2022 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution Airbus DS © 2022 TomTom
 USGSTop: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S.

Map Scale: 1:25,200 | Map Center: 112°22'31"W 48°13'24"N



KEY MAP (not to scale)

- Active Injection
- P&A - Approved
- Shut In
- Water Well Location
- Parcel Boundaries
- Area-Wide UIC
- Area of Review (AOR)



TOPOGRAPHIC MAP WITH THE AREA OF REVIEW
MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment A
Figure - 02

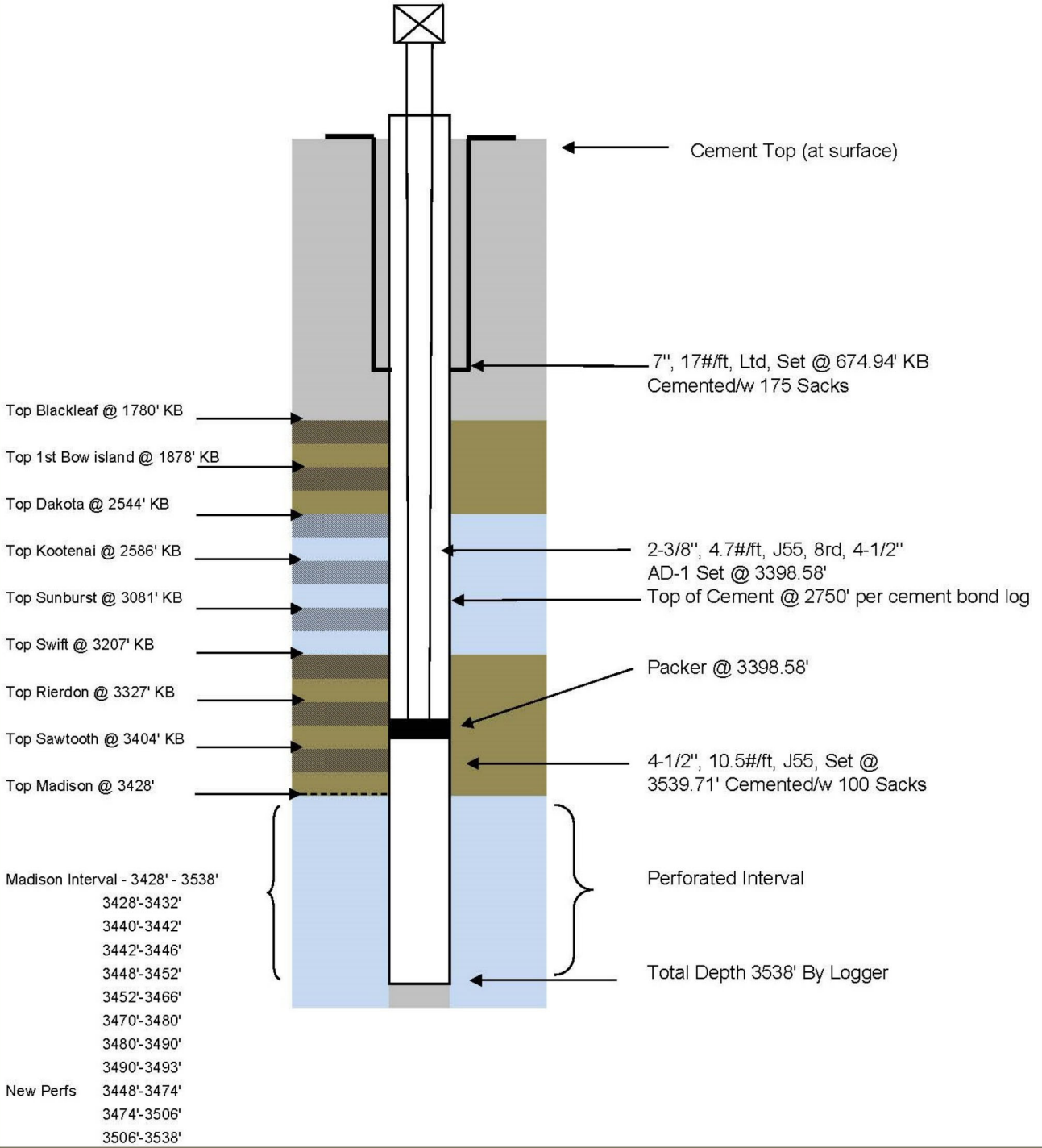
RAMBOLL US CONSULTING, INC.
 A RAMBOLL COMPANY



Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W
	(330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

**SCHEMATIC
After Workover**



USDW

Confining Zone

**WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1**

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment A
Figure 03**

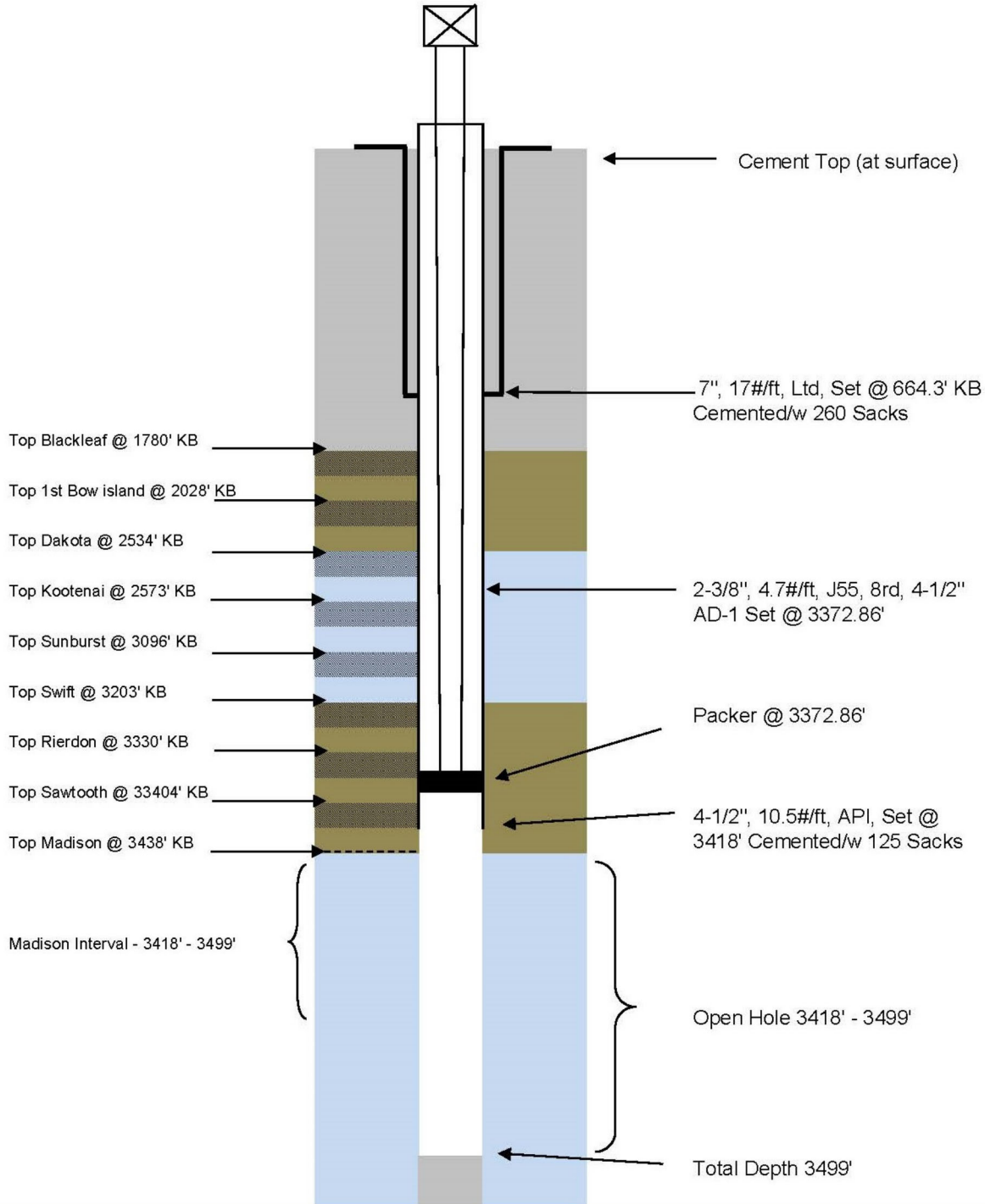
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment A
Figure 04

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Ramboll - Montalban Oil & Gas Operations, Inc.
Area-Wide Class V UIC Application

Attachment A
Map(s) and Area of Review

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EXHIBIT A

Montana BOGC Well Records

Company: **ALTAMONT OIL & GAS, INC.**

Well: **JODY FIELD 4-1**

Field: **WILDCAT**

County: **PONDERA**

State: **MONTANA**

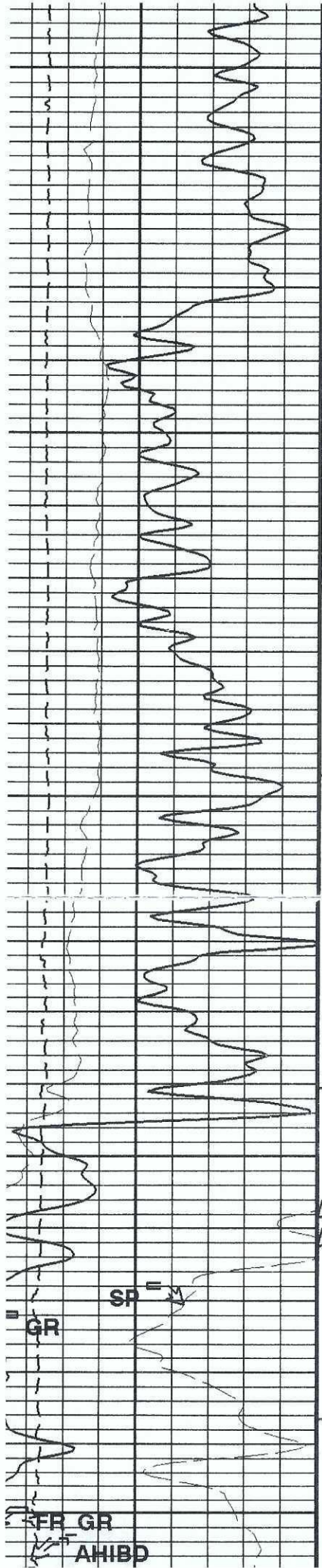
PLATFORM EXPRESS ARRAY INDUCTION TOOL

County: **PONDERA**
 Field: **WILDCAT**
 Location: **NENENE SEC 4, T28N, R6W**
 Well: **JODY FIELD 4-1**
 Company: **ALTAMONT OIL & GAS, INC.**

LOCATION			
NENENE SEC 4, T28N, R6W	Elev.: K.B. 4075 ft		
SHL: 330' FNL & 430' FEL	G.L. 4070 ft		
	D.F. 4074 ft		
Permanent Datum:	GROUND LEVEL	Elev.:	4070 ft
Log Measured From:	KELLY BUSHING	5.0 ft	above Perm. Datum
Drilling Measured From:	KELLY BUSHING		
API Serial No. 25-073-21824	Section 4	Township 28N	Range 6W

Logging Date	17-Nov-2007		
Run Number	1		
Depth Driller	3545 ft		
Schlumberger Depth	3539 ft		
Bottom Log Interval	3531 ft		
Top Log Interval	894 ft		
Casing Driller Size @ Depth	7.000 in @ 894 ft		
Casing Schlumberger	894 ft @		
Bit Size	6.250 in		
Type Fluid In Hole	FRESH WATER GEL		
Density	9 lbm/gal	34 s	
Fluid Loss	6 cm3	10	
Source Of Sample	FLOWLINE		
RM @ Measured Temperature	4.040 ohm.m	@	69 degF
RMF @ Measured Temperature	3.232 ohm.m	@	69 degF
RMC @ Measured Temperature	5.280 ohm.m	@	69 degF
Source RMF	CALCULATED	CALCULATED	
RM @ MRT	4.051 @ 69	3.241 @ 69	@ @
Maximum Recorded Temperatures	69 degF		
Circulation Stopped	Time	17-Nov-2007	
Logger On Bottom	Time	17-Nov-2007	16:50
Unit Number	Location	7021	CHINOOK, MT

	Run 1	Run 2	Ru
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Location			

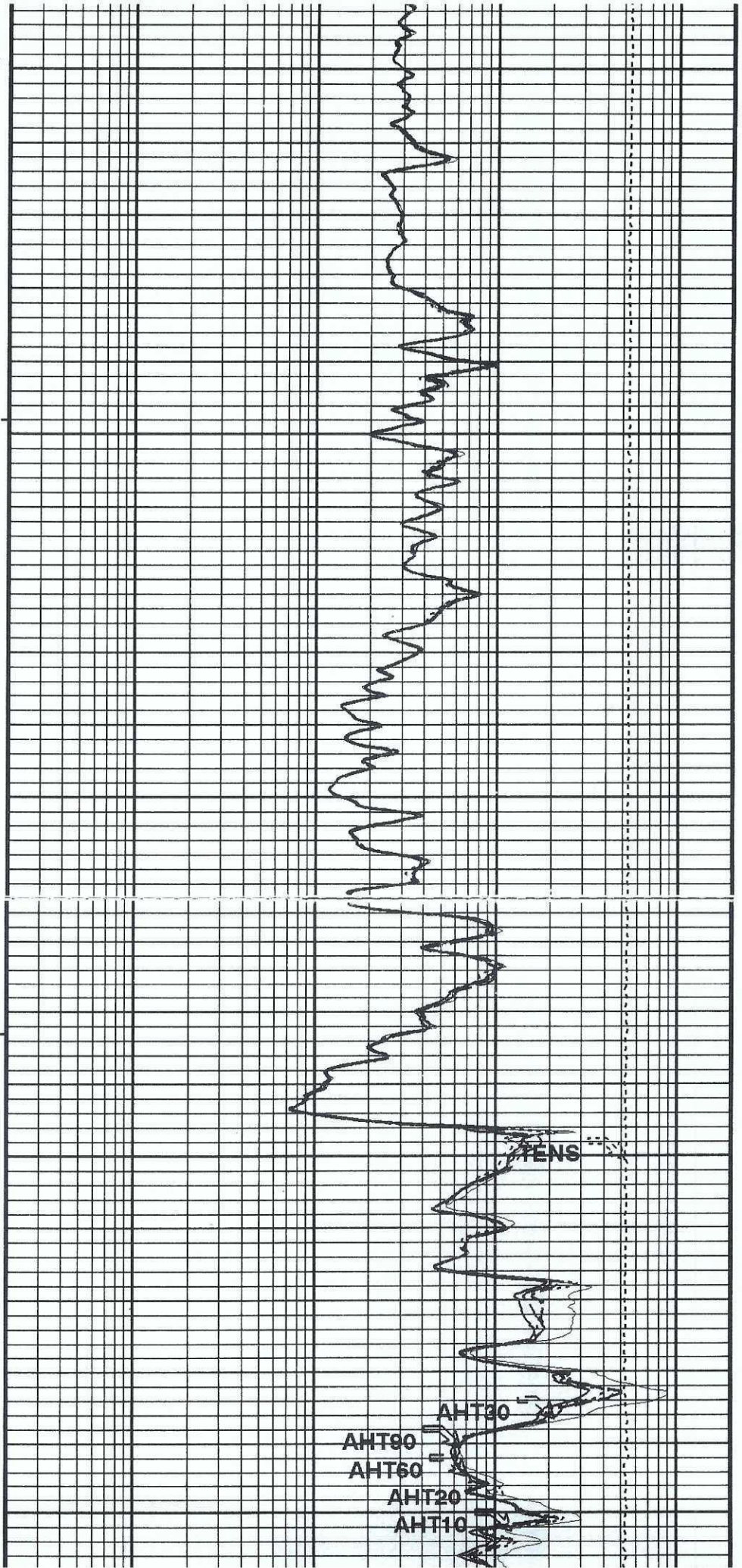


3300

3400

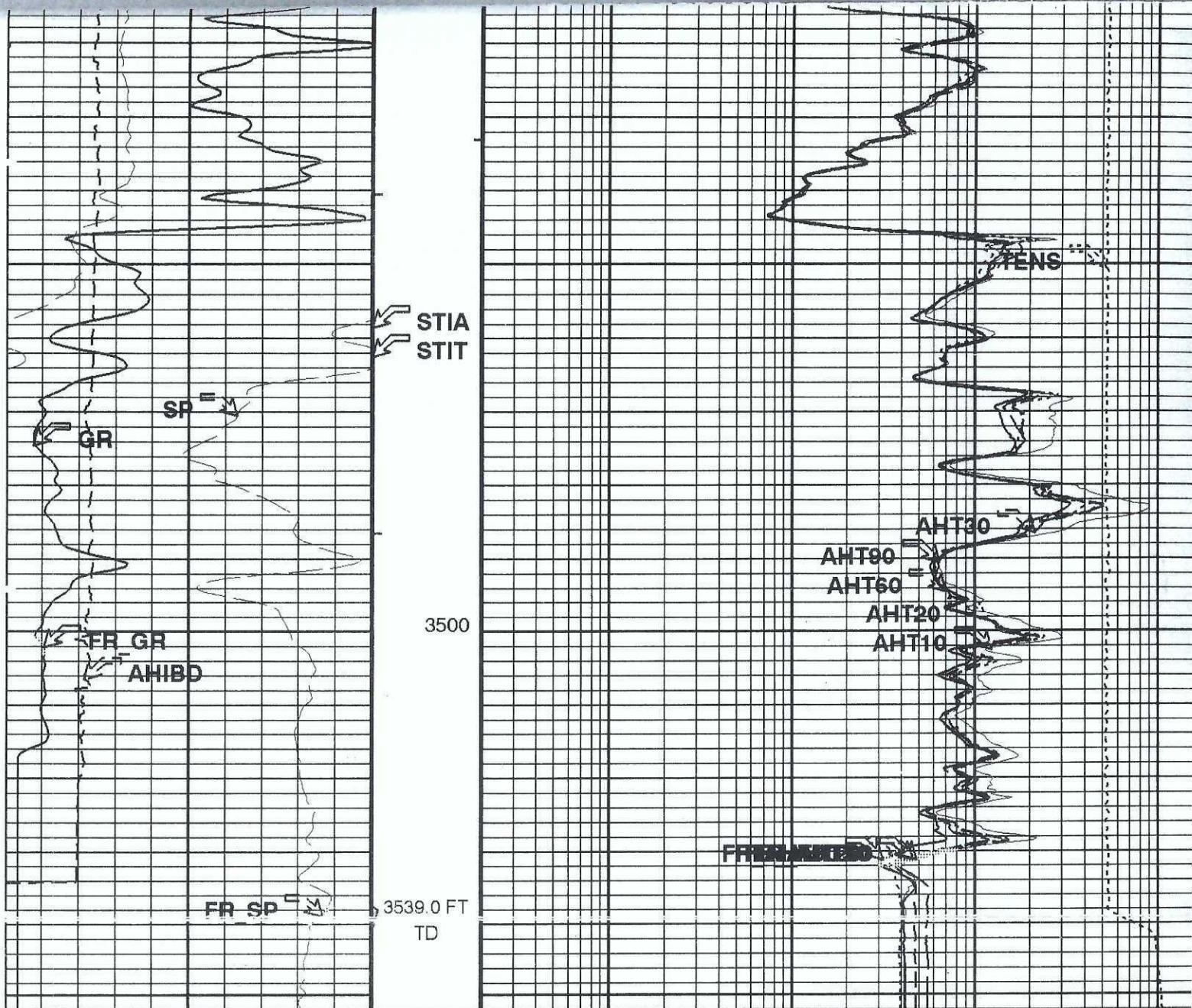
STIA
STIT

3500



TENS

AHT90
AHT60
AHT20
AHT10



MAIN PASS: AIT 2 FT VERT RES 5 INCH SCALE

SP (SP) (MV)	20	Stuck Stretch (STIT) 0 (F) 50	0.2	AIT-H 10 Inch Investigation (AHT10) (OHMM)	200
AIT-H Input Bhole Diameter (AHIBD) (IN)	14	Cable Drag From STIA to STIT	0.2	AIT-H 20 Inch Investigation (AHT20) (OHMM)	200
Gamma Ray (GR) (GAPI)	150	Tool/Tot. Drag From D3T to STIA	0.2	AIT-H 60 Inch Investigation (AHT60) (OHMM)	200
			0.2	AIT-H 90 Inch Investigation (AHT90) (OHMM)	200
			0.2	AIT-H 30 Inch Investigation (AHT30) (OHMM)	200
				Tension (TENS)	2000 4 REV

Company: **ALTAMONT OIL & GAS, INC.**

Well: **JODY FIELD 4-1**

Field: **WILDCAT**

County: **PONDERA**

State: **MONTANA**

****PLATFORM EXPRESS**
COMPENSATED NEUTRON
THREE DETECTOR LITHODENSITY**

County: **PONDERA**
Field: **WILDCAT**
Location: **NENENE SEC 4, T28N, R6W**
Well: **JODY FIELD 4-1**
Company: **ALTAMONT OIL & GAS, INC.**

LOCATION		Elev.: K.B. 4075 ft	
NENENE SEC 4, T28N, R6W		G.L. 4070 ft	
SHL: 330' FNL & 430' FEL		D.F. 4074 ft	
Permanent Datum:	GROUND LEVEL	Elev.:	4070 ft
Log Measured From:	KELLY BUSHING	5.0 ft above Perm. Datum	
Drilling Measured From:	KELLY BUSHING		
API Serial No. 25-073-21824	Section 4	Township 28N	Range 6W

Logging Date	17-Nov-2007		
Run Number	1		
Depth Driller	3545 ft		
Schlumberger Depth	3539 ft		
Bottom Log Interval	3531 ft		
Top Log Interval	894 ft		
Casing Driller Size @ Depth	7.000 in @ 894 ft		
Casing Schlumberger	894 ft		
Bit Size	6.250 in		
Type Fluid In Hole	FRESH WATER GEL		
Density	9 lbm/gal	34 s	
Fluid Loss	6 cm3	10	
Source Of Sample	FLOWLINE		
RM @ Measured Temperature	4.040 ohm.m @	69 degF	@
RMF @ Measured Temperature	3.232 ohm.m @	69 degF	@
RMC @ Measured Temperature	5.280 ohm.m @	69 degF	@
Source RMF	CALCULATED	CALCULATED	
RM @ MRT	4.051 @ 69	3.241 @ 69	@
RMF @ MRT	69 degF		
Maximum Recorded Temperatures	17-Nov-2007		
Circulation Stopped	17-Nov-2007		
Logger On Bottom	7021	CHINOOK, MT	16:50
Unit Number	ROY DAVIS		

Logging Date					
Run Number					
Depth Driller					
Schlumberger Depth					
Bottom Log Interval					
Top Log Interval					
Casing Driller Size @ Depth					
Casing Schlumberger					
Bit Size					
Type Fluid In Hole					
Density					
Fluid Loss					
Source Of Sample					
RM @ Measured Temperature					
RMF @ Measured Temperature					
RMC @ Measured Temperature					
Source RMF					
RM @ MRT					
RMF @ MRT					
Maximum Recorded Temperatures					
Circulation Stopped					
Logger On Bottom					
Unit Number					

OP System Version: 15C0-309

MCM

.TB-FTB

15C0-309

DTC-H

15C0-309

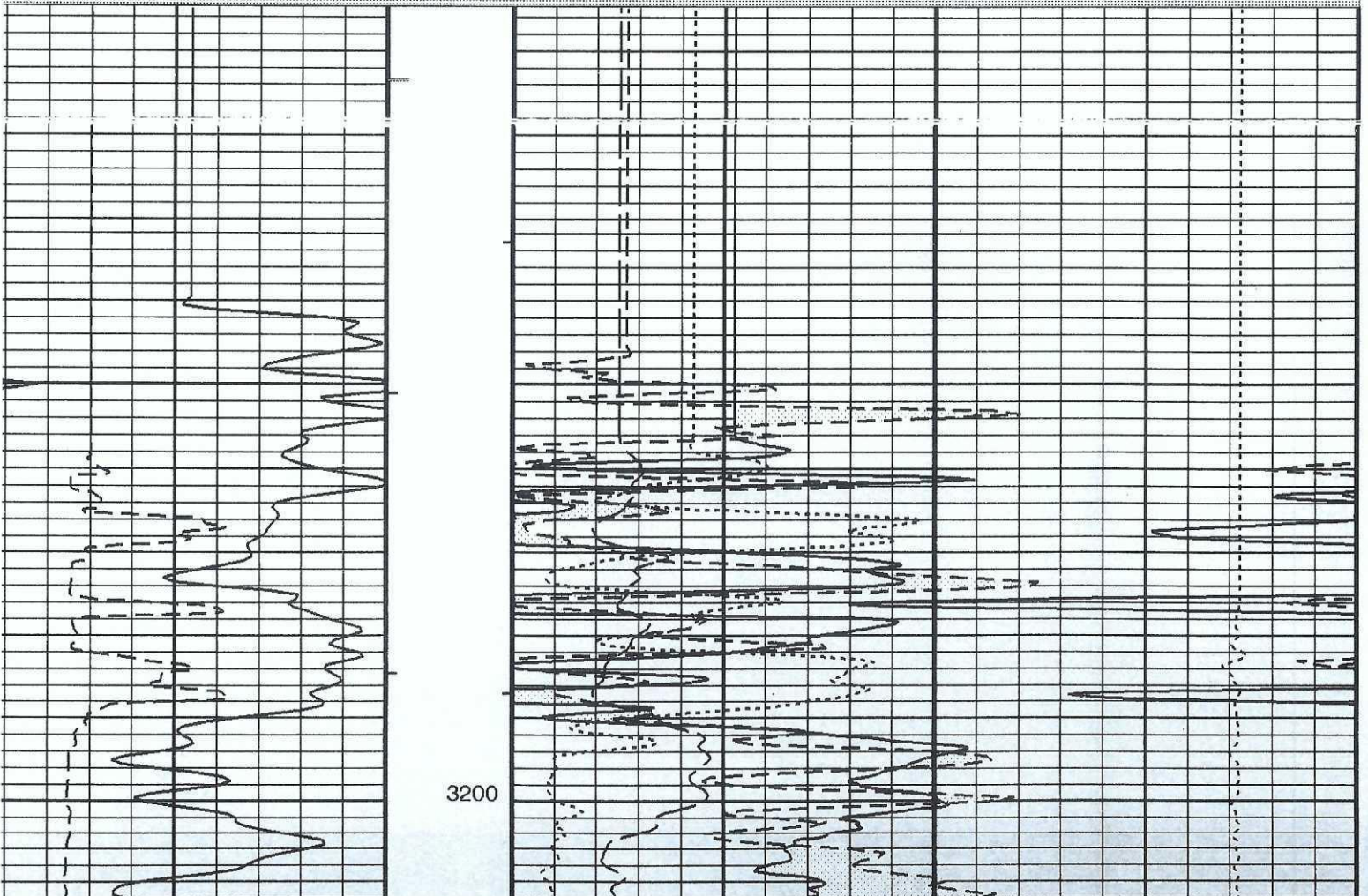
PIP SUMMARY

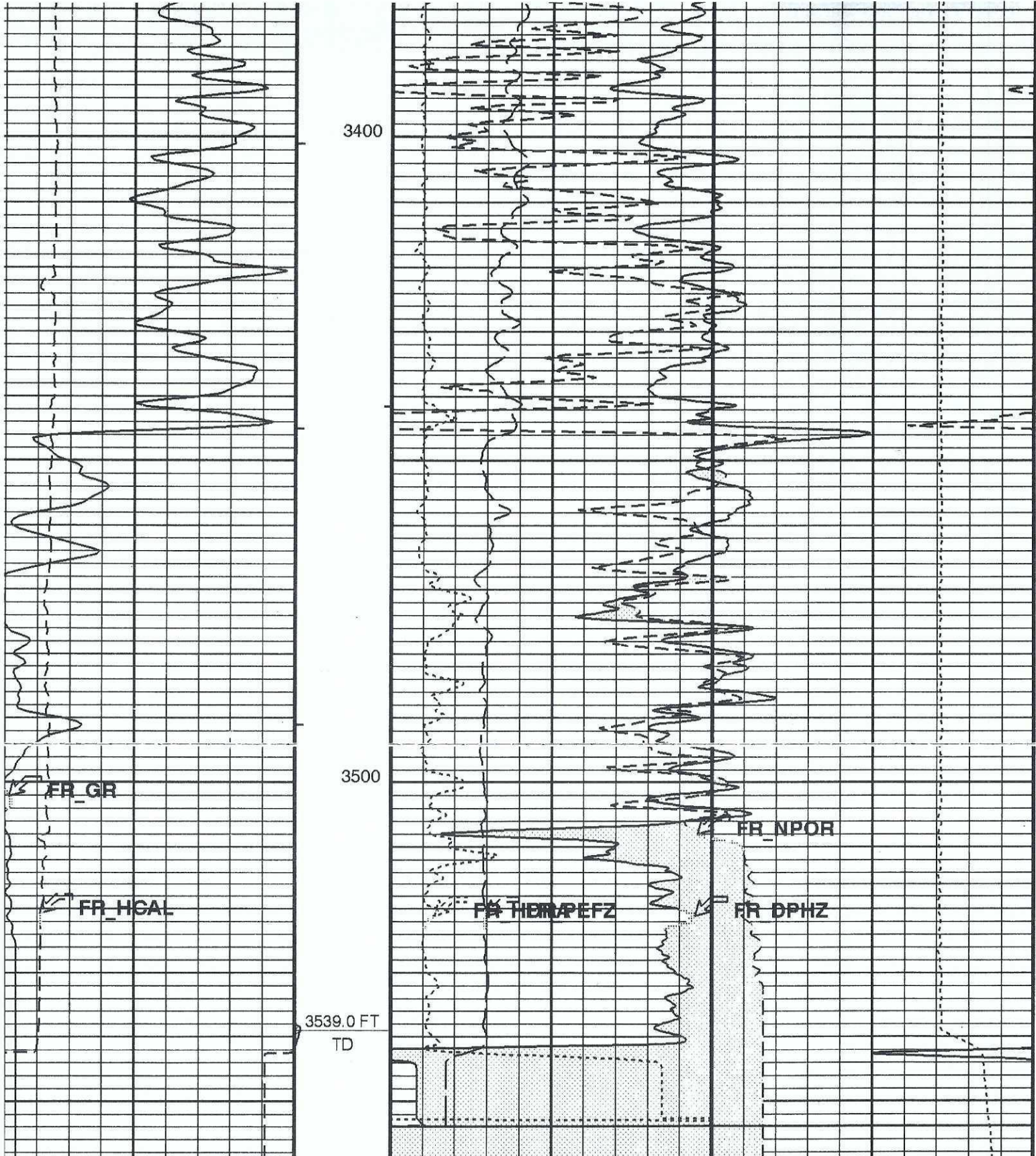
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

		Std. Res. Formation Pe (PEFZ)			
		0	(---)	10	
		Alpha Processed Neutron Porosity (NPOR)			
		0.3	(V/V)		-0.1
HILT Caliper (HCAL) (IN)		Density Correction (HDRA) (G/C3)		Tension (TENS) (LBF)	
14	Cable Drag From STIA to STIT	-0.05	0.45	6000	0
Gamma Ray (GR) (GAPI)		Std. Res. Density Porosity (DPHZ)			
150	Stuck Stretch (STIT) 0 (F) 50	0.3	(V/V)		-0.1

MAIN PASS: POROSITY 5 IN SCALE DOLOMITE MATRIX: 2.87 G/CC





MAIN PASS: POROSITY 5 IN SCALE DOLOMITE MATRIX: 2.87 G/CC

Gamma Ray (GR) (GAPI)	150	Stuck Stretch (STIT) (F)	0	50	0.3	Std. Res. Density Porosity (DPHZ) (V/V)	-0.1	
HILT Caliper (HCAL) (IN)	14	Cable Drag From STIA to STIT	-0.05	0.45	6000	Density Correction (HDRA) (G/C3)	Tension (TENS) (LBF)	0

Company: **ALTAMONT OIL & GAS, INC.**

Well: **JODY FIELD 4-1**

Field: **WILDCAT**

County: **PONDERA**

State: **MONTANA**

****PLATFORM EXPRESS****
COMPENSATED NEUTRON / LITHODENSTIY
ARRAY INDUCTION TOOL

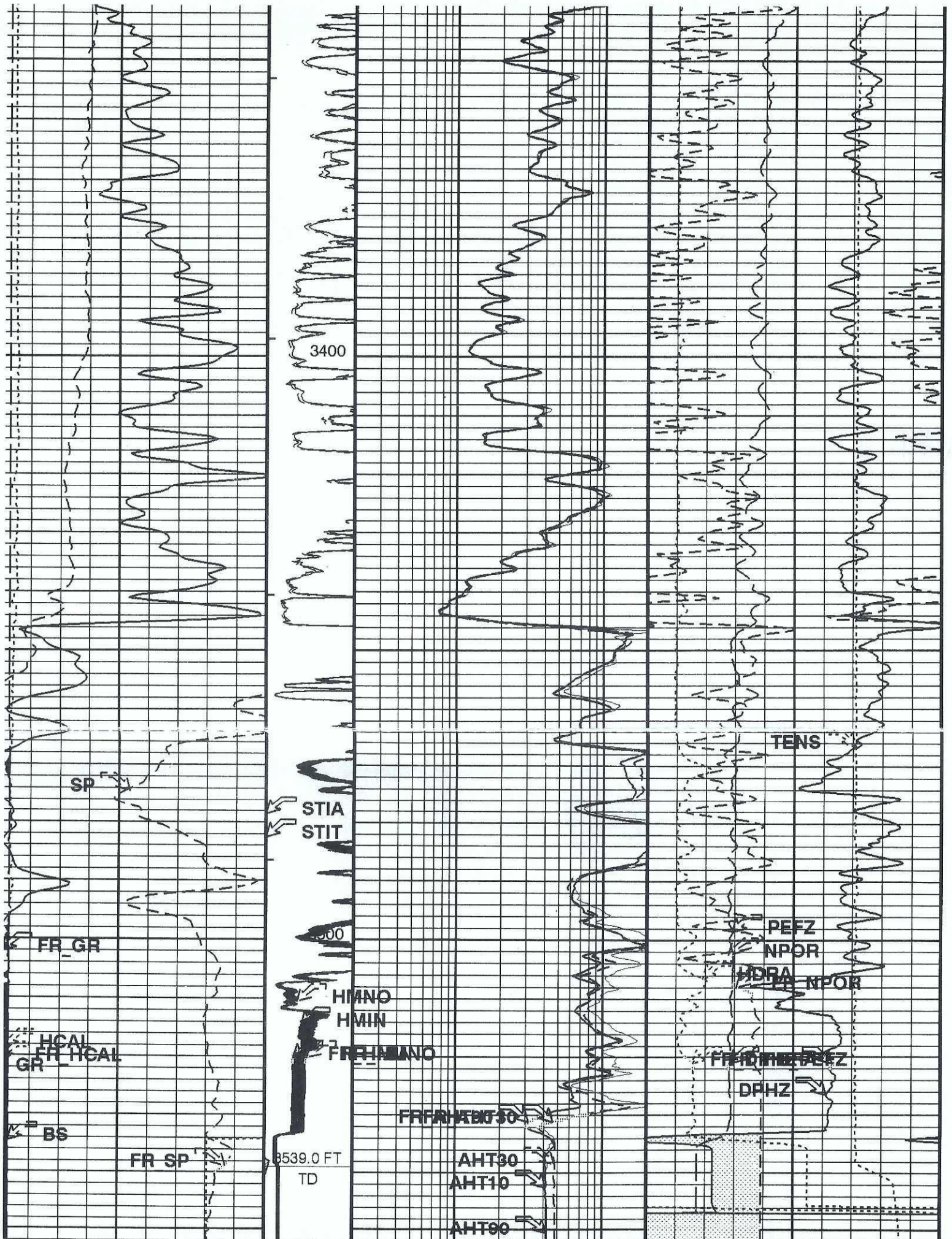
County: **PONDERA**
 Field: **WILDCAT**
 Location: **NENENE SEC 4, T28N, R6W**
 Well: **JODY FIELD 4-1**
 Company: **ALTAMONT OIL & GAS, INC.**

LOCATION	
NENENE SEC 4, T28N, R6W	Elev.: K.B. 4075 ft
SHL: 330' FNL & 430' FEL	G.L. 4070 ft
	D.F. 4074 ft
Permanent Datum: _____	Elev.: 4070 ft
Log Measured From: KELLY BUSHING	5.0 ft above Perm. Datum
Drilling Measured From: KELLY BUSHING	

API Serial No. 25-073-21824	Section 4	Township 28N	Range 6W
--------------------------------	--------------	-----------------	-------------

Logging Date	17-Nov-2007		
Run Number	1		
Depth Driller	3545 ft		
Schlumberger Depth	3539 ft		
Bottom Log Interval	3531 ft		
Top Log Interval	894 ft		
Casing Driller Size @ Depth	7.000 in @ 894 ft		
Casing Schlumberger	6.250 in @		
Bit Size	6.250 in		
Type Fluid In Hole	FRESH WATER GEL		
Density	9 lbm/gal	34 s	
Fluid Loss	6 cm3	10	
Source Of Sample	FLOWLINE		
RM @ Measured Temperature	4.040 ohm.m	@	69 degF
RMF @ Measured Temperature	3.232 ohm.m	@	69 degF
RMC @ Measured Temperature	5.280 ohm.m	@	69 degF
Source RMF	CALCULATED	CALCULATED	
RM @ MRT	4.051 @ 69	3.241 @ 69	
Maximum Recorded Temperatures	69 degF		
Circulation Stopped	17-Nov-2007		
Logger On Bottom	17-Nov-2007		16:50
Unit Number	7021	CHINOOK, MT	

Logging Date	Run 1	Run 2
Run Number		
Depth Driller		
Schlumberger Depth		
Bottom Log Interval		
Top Log Interval		
Casing Driller Size @ Depth		
Casing Schlumberger		
Bit Size		
Type Fluid In Hole		
Density		
Fluid Loss		
Source Of Sample		
RM @ Measured Temperature		
RMF @ Measured Temperature		
RMC @ Measured Temperature		
Source RMF		
RM @ MRT		
Maximum Recorded Temperatures		
Circulation Stopped		
Logger On Bottom		
Unit Number		



TRIPLE COMBO MAIN PASS - 5 INCH SCALE

LOCATE WELL CORRECTLY

				o
		4		

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease JODY FIELDS Well No. 4-1

Address PO BOX 200 - CUT BANK MT 59427 Field (or Area) WILDCAT

The well is located 330 ft. from (N) line and 430 ft. from (E) line of Sec. 4

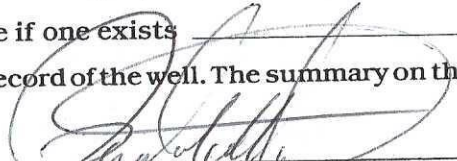
Sec. 3; T. 28; R. 6; County PONDERA; Elevation 4070' GL
(D.F., R.B. or G.L.)

Commenced drilling November 5, 2007, ~~XX~~; Completed November 18, 2007, ~~XX~~

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)
API# 25-073-21824

Signed 
PATRICK M. MONTALBAN
Title PRESIDENT & CEO
Date DECEMBER 31, 2008

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>3446'</u> to <u>3452'</u>	<u>O & G</u>	From _____ to _____
From <u>3456'</u> to <u>3463'</u>	<u>O & G</u>	From _____ to _____
From <u>3467'</u> to <u>3474'</u>	<u>O, G & W</u>	From _____ to _____
From _____ to _____		From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	894.41'	0	894.41'	180 Sacks	Class G Cement
4-1/2"	10.5#/ft	API	ST&C	3545'	894.41'	3454'	100 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7#/ft	J55	ST&C	108 Jts	

COMPLETION RECORD

Rotary tools were used from 0 to 3545'
Cable tools were used from _____ to _____
Total depth 3545 ft.; Plugged back to 3463' T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3446'	3450'	3-1/8" HSC				
3466'	3470'	"				
3470'	3474'	"				

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from MADISON (pool) formation.
I.P. 7 barrels of oil per 1 hours (pumping or flowing)
Mcf of gas per _____ hours.
_____ barrels of water per _____ hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
	NONE							

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
ARRAY INDUCTION LOG	894'	3531'
COMPENSATED NEUTRON & THREE DETECTOR		
DENSITY	894'	3531'

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 4-1
NENENE Section 4-T28N-R6W
(330' FNL – 430' FEL)
Glacier County, Montana
API No. 25-073-21824

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: November 5, 2007
Completion Date: Novemebr 18, 2007
Status: Madison Sun River Dolomite "Wildcat Oil Well
Discovery"
Eleavtion: 4070'GR. 4075'KB.
Total Depth: 3545' Driller 3539' Logger
Casing: Ran 21 joints 7",17#/ft,ltd,8rd,ST&C,Rge 3,(896.91)
set@894.41KB cemented with 180sx Class G
cement,3%Calcium Chloride, 3% Calcium
chloride,1/2# flocelle.
Ran 85 joints4 1/2",10.5#/ft,8rd,ST&C,Rge3
(3549.57') set @3546.57' KB cemented with
100 sx Class G, 10% Nacl,10% Fine Mica,
1/4 #/sack flocelle
Contractor: GaSco Drilling LLC Rig No.5
Type Rig: Atlas Copco (Tophead Drive)
Mud Pump: National Ideal C - 150 (6 1/2" x 12")
Air Compressor: Dawoo Industries (1250mmcf 350psi)
Air Program: Surface to 3390'
Mud Program: 3390'-3545'
Hole Size: 8 3/4" (0-897') 6 1/4"(897' - 3545 ')
Size Drill Pipe: 3 1/2" O.D. x 2 1/2" I.D. (13.30 #/ft.)
Size Drill Collars: 4 3/4"O.D. x 2 1/8" I.D.(353') Weight Pipe =
4 1/2"O.D. x 2" I.D.(16.60#/ft.)(120')
No. Drill Collars: 13 = 353'
Sample Intervals: 30'(1950'- 2310')(2560' - 2980')10'(1700' - 1950')
(2310' - 2560')(2980' - 3450')(3470' - 3480')
(3490' - 3545')
5'(3450' - 3470')(3480' - 3490')
Sample Quality: Poor while drilling with mud.
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 8 3/4" hole with air (mist) from 37' to 897'. Did not show strong flow of water through the drilling of the surface hole. Drilled 6 1/4" hole with air from 897' to 1938'. 1 second flare @ 1938' (T.S.T.M.) Drilled 6 1/4" hole with air from 1938' to 2224'. 2 second flare @ 2224' (T.S.T.M.). Drilled 6 1/4" hole with air from 2224' to 2510'. 3 second flare @ 2510' (T.S.T.M.). Drilled 6 1/4" hole with air from 2510' to 3390' and did not encounter water. Total depth 3390' by driller with air. Converted to mud drilling program at 3390'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

Ran Schlumberger Platform Express Array Induction Log from 894' to 3531'. Ran Schlumberger Platform Express Compensated Neutron & Three Detector Density from 894' to 3531'.

Mud Summary

Gel - 104sx	Drilling Zone - 2 x 5 gallon
Reosmart - 1sx	Poly Pac UL - 3 sx
Maxi Seal - 8sx	ReoSmart - 1
Air Foam - 1 - 1 Gallon Containers	Platinum PacUL - 3sx
Caustic Soda - 3sx	Sodium Bicarbonate - 1sx
Poly Plus - 1 x 5 gallon	

Bit Record

No.	Size	Make	Type	Interval	Footage	Hours	Jet Size	Serial No.
1	8 3/4"	STC	F-20	0 - 897	897	36.00	open	ER8776
2	6 1/4"	HTC	ER-20	897-3545	2648	50.75	open	51080508

Vertical Surveys

Depth	Degrees
897'	1 1/2*
1525'	3/4*
2002'	1*
2574'	2 3/4*
3018'	2 1/2*

Electric Log Formation Tops

Cretaceous	Depth	Datum
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996
Jurassic		
Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659
Mississippian		
Madison(Sun River Dolomite)	3445	+630
Total Depth:	3539	+536

Daily Activity Summary (Calendar Days)

- November 6,2007 Moved in and Rigged up Gasco Drilling LLC Rig No. 5. Spud 8 3/4" hole at 4:30P.M. Drilled 8 3/4" surface hole from 0' to 19'. Drive 9 5/8" casing set @ 15.00' set @ 19'. Repair upper radiator hose. Nipple up deflector head. Drilled 8 3/4" surface hole with air mist from 15' to 154'.
- November 7,2007 Drilled 8 3/4" surface hole with air mist from 154' to 669'.
- November 8,2007 Drilled 8 3/4" surface hole with air mist from 669 to 897'. Total Depth 897' by Driller. Condition hole for surface casing. Ran 23 joints 7", 17#/ft, Ltd, 8rd, ST&C, (896.91) set @ 894.41. KB cemented with 180 sacks Class G cement + 3% Calcium Chloride, 1/2#/sack focelle. Good returns to surface. Plug down at 1:45 P.M. W.O.C. Nipple up BOP. Rig down and move off location. Wait on new drilling rig.
- November 13,2007 T.D. 897'. Moved in and rigged up Gasco Drilling LLC Rig No. 7. Work on rig floor. Nipple up B.O.P.. Work on hydrolics. Trip in hole with 6 1/4" bit. Clean and dry hole. Drilled cement plug and dry hole. Ran survey.
- November 14,2007 T.D. 897'. Dry hole. Drilled out @ 3:05A.M.. Drilled 6 1/4" hole with air from 897' to 2420'.
- Novemeber 15,2007 Drilled 6 1/4" hole with air from 2420' to 3370'.
- November 16,2007 Drilled 6 1/4" hole with air from 3370' to 3390'. Drilled to 3390' Total depth by driller with air. Did not encounter any moisture of any kind. Converted to drilling mud @ 12:30A.M. Drilled out with drilling mud @ 10:10P.M. Drilled 6 1/4" hole with drilling mud from 3390' to 3545'. Total depth 3545' by driller.

November 17,2007 T.D. 3545'. Condition hole for logs. Short trip. Condition hole for logs. Trip out of hole for open hole logs. Rig broke down to repair Boom a number of times. Ran Schlumberger logs. Rig up to run production casing. Began to run production casing.

November 18,2007 Ran 85 joints 4 ½",9.5#/ft,API.,J55,8rd,ST&C,Rge 3 (3549.57') set @ 3546.47'. Lower viscosity to 40. Cemented Well with 100 sacks Class G cement with 10%Nacl,10% Fine Mica,1/4# floccelle,Plug down @5:50A.M.. Set 4 ½" casing in the Slips. Rigged down.
Report Ends

Lithology

Sample descriptions begin at 1700', in the Cretaceous Colorado. Sample descriptions are not corrected for drill time lag. Formation tops were determined from electric logs. Samples were examined and described wet except for the samples in the Mississippian Madison Sun River Dolomite that were described dry.

SAMPLES CAUGHT IN 10' INTERVAL:

- 1700 – 1710 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, gritty in parts.
- 1710 – 1720 same as above.
- 1720 – 1730 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured to gritty textured, sandy in parts.
- 1730 – 1740 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous. Bentonite, tan, soft, lumpy.
- 1740 – 1750 same as above. Bentonite, tan, white, soft, lumpy.
- 1750 – 1760 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous.
- 1760 – 1770 same as above.
- 1770 – 1780 Shale, grey, chunky, firm to hard, dense, noncalcareous, earthy textured, micromicaceous.
- 1786 – E Log Top - Blackleaf
- 1780 – 1790 Shale, dk greyish black, chunky, blocky, firm to hard, dense, very calcareous, many tan specks.
- 1790 – 1800 Shale as above.

- 1800 – 1810 Shale, dk grey, chunky, blocky, firm to hard, dense, very calcareous, earthy textured, many tan specks.
- 1810 – 1820 same as above.
- 1825 – E Log Top – Blackleaf Bentonite
- 1820 – 1830 Shale, dk grey, chunky firm, dense, calcareous, earthy textured.
- 1830 – E Log Top – Blackleaf Sandstone
- 1830 – 1840 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy, micromicaceous.
- 1840 – 1850 Shale as above.
- 1850 – 1860 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone, grey, blocky, hard, dense, noncalcareous, tight.
- 1860 – 1870 Sandstone, grey, very fine to fine grained, subrounded to subangular, Moderately sorted quartzose, many clear and grey grains,
- 1870 – 1880 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, many unconsolidated grains in sample pan. Siltstone, grey, blocky, hard, dense, noncalcaeous, tight.
- 1884 – 1st Bow Island
- 1880 – 1890 Many unconsolidated grains in sample pan. Bentonite, tan, soft, lumpy.
- 1890 – 1900 same as above.
- 1900 – 1910 Siltstone, grey, blocky, hard, dense, noncalcareous, tight
- 1910 – 1920 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone as above. Unconsolidated grains in sample pan.

1920 – 1930 Bentonite, tan, white, soft, waxy, lumpy, micromicaceous. Shale, dk grey
Chunky, hard, dense, noncalcareous, earthy textured.

1930 – 1940 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured.

1940 – 1950 Bentonite, tan, soft, lumpy. Many unconsolidated grains in sample pan.

Begin 30' Samples

1950 – 1980 Sandstone, grey, very fine grained, rounded, well sorted quartzose,
many clear and grey grains, trace glauconite grains.

1980 – 2010 Bentonite, tan, soft, lumpy. Shale, greenish grey, chunky, firm, dense,
noncalcareous, gritty textured. Siltstone, greenish grey, blocky, hard, dense
noncalcareous, tight.

2026 – E Log Top – 2nd Bow Island

2010 – 2040 Sandstone, grey, very fine to fine grained, rounded to subrounded, well
sorted quartzose, many clear grains, few black chert grains, few glauconite
grains.

2040 – 2070 Shale, chocolate brown, chunky, firm to hard, dense, waxy textured,
trace orange zeolites. Bentonite, tan, soft, lumpy

2070 – 2100 Shale, lt green, chunky, firm, dense, noncalcareous, waxy textured.
Much Bentonite, tan, soft, lumpy.

2100 – 2130 Sandstone, greenish grey, very fine to medium grained, coarse grained in
parts, subrounded to angular, poorly sorted quartzose, many clear grains,
trace black chert grains, trace glauconite grains.

2134 – E Log Top – 3rd Bow Island

2130 – 2160 Sandstone, brownish white, very fine grained, rounded, well sorted
quartzose, many clear and grey grains.

- 2160 – 2190 Shale,black,chunky,firm,dense,noncalcareous,waxy textured.
- 2190 – 2220 Bentonite,ten,soft,lumpy,micromicaeous, Shale,lt green,chunky,
Soft,dense,noncalcareous,waxy textured.
- 2220 – 2250 Shale,green,greys,chunky,soft to firm,dense,noncalcareous,earthy to waxy
many orange zeolites.Textured. Bentonite,tan,soft,lumpy.
- 2250 – 2280 Bentonite,tan,soft,lumpy. Sandstone,brown,very fine grained,rounded,
well sorted quartzose.
- 2280 – 2310 Shale,greys,chunky,soft to firm,dense,noncalcareous,earthy to gritty
Textured. Bentonite,tan,soft,lumpy.

Resume 10' Samples

- 2310 – 2320 Shale,dk greys,chunky,firm,dense,noncalcareous,earthy to gritty textured.
Bentonite,tan,soft,lumpy.
- 2320 – 2330 Bentonite,tan,soft,lumpy. Shale as above.
- 2330 – 2340 Sandstone,dk greys,very fine grained,well sorted,rounded quartzose
many unconsolidated grains in sample pan,many clear and grey grains,
trace glauconite grains. Bentonite,tan soft,lumpy. Shale,dk greys,chunky
firm,dense noncalcareous,gritty textured.
- 2340 – 2350 Shale,dk greys,chunky,firm,dense,noncalcareous,gritty textured.
- 2350 – 2360 same as above.
- 2367 – E Log Top – 4th Bow Island "A" Sandstone
- 2360 – 2370 Sandstone,greys,very fine to fine,rounded to subrounded,moderately sorted
quartzose,noncalcareous,many clear grains,few black chert grains,few
glauconite grains.

- 2370 – 2380 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear grains, many grey grain, few glauconite grains.
- 2380 – 2390 same as above.
- 2390 – 2400 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
bentonite, tan, soft, lumpy. Many unconsolidated grains in sample
pan.
- 2400 – 2410 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
sandy in parts. Bentonite, tan, soft, lumpy.
- 2413 – E Log Top – 4th Bow Island “B” Sandstone
- 2410 – 2420 Sandstone, grey, very fine grained, rounded, well sorted
quartzose, many clear and grey grains, few glauconite grains.
- 2420 – 2430 same as above becoming slightly coarser grained, very bentonitic.
- 2430 – 2440 Sandstone, dk grey, very fine grained, rounded to subrounded, well sorted
quartzose, many grey grains, few glauconite grains, bentonitic.
- 2440 – 2450 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty to sandy
textured. Many unconsolidated grains in sample pan.
- 2450 – 2460 Shale, grey, chunky, soft to firm, dense, noncalcareous, gritty textured
unconsolidated grains in sample pan.
- 2460 – 2470 same as above. Bentonite, tan, soft, lumpy.
- 2470 – 2480 Shale, dk grey, grey, chunky, firm, dense, noncalcareous, earthy textured,
Bentonitic.
- 2480 – 2490 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy textured,
Micromicaceous.

- 2490 – 2500 same as above. Many unconsolidated grains in sample pan.
- 2500 – 2510 Shale, grey, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2510 – 2520 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear and grey grains, few glauconite grain, bentonitic.
- 2520 – 2530 Many unconsolidated grains in sample pan. Shale, grey, chunky, firm, dense, noncalcareous, gritty textured. Sandstone as above.
- 2539 – E Log Top - Dakota
- 2530 – 2540 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured, micromicaceous. Bentonite, tan, soft, lumpy.
- 2540 – 2550 Sandstone, lt grey, very fine grained, rounded, well sorted quartzose
many clear grains few grey grains.
- 2550 – 2560 Sandstone, clear, very fine grained, rounded to subangular, well sorted
Quartzose, many clear grains, few grey chert grains, bentonitic.

Resume 30' Samples

- 2582 – E Log Top - Kootenai
- 2560 – 2590 Sandstone, brown, very fine to medium grained, rounded to subangular
Moderately sorted quartzose, many unconsolidated grains. Bentonite, tan, soft.
- 2590 – 2620 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured.

- 2620 – 2650 Sandstone, grey, very fine to fine grained, rounded to subrounded, well to moderately sorted quartzose, many clear grains, many grey shale inclusions many black chert grains.
- 2650 – 2680 Sandstone, grayish white, very fine to fine grained, rounded to subangular, moderately sorted quartzose, many clear grains, many grey and black grains.
- 2680 – 2710 Shale, brick red, green, lt green, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured.
- 2710 – 2740 Sandstone, green, lt green, very fine grained, rounded, well sorted quartzose many unconsolidated grains, many clear grains, orange shale as above. Shale green, chunky, firm, dense, noncalcareous, gritty textured.
- 2740 – 2770 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured. Bentonite, tan, soft, lumpy.
- 2770 – 2800 Sandstone, green, lt green, very fine to fine, rounded to subrounded, well sorted quartzose, many clear and frosted grains, many glauconite grains.
- 2800 – 2830 Shale, green, chunky, firm, dense, noncalcareous, earthy textured, smooth. shale, grey, chunky, firm, dense, noncalcareous, earthy textured.
- 2830 – 2860 Shale, brick red, maroon, green, grey, chunky, firm, dense, noncalcareous, gritty textured. Bentonite, white, soft waxy.
- 2860 – 2890 Shale, multicolored, green, brick red, grey, reddish brown, maroon, chunky, soft to firm, dense, noncalcareous, earthy textured.
- 2890 – 2920 Sandstone, grey, very fine to fine grained, rounded to subangular, moderately Sorted quartzose, many clear grains, many grey grains, many amber grains, Bentonitic.

- 2920 – 2950 Sandstone,dk brown,very fine grained,rounded,well sorted quartzose, Bentonitic,tan,soft,lumpy.
- 2950 – 2980 Shale,brick red,chunky,soft to firm,dense,noncalcareous,gritty textured. turns sample bag bick red.

Begin 10' Samples

- 2980 – 2990 Shale,brown,brick red,chunky,firm,dense,noncalcareous,earthy to gritty textured.
- 2990 – 3000 Shale,green,chunky,soft to firm,dense,noncalcareous,gritty textured,sandy in parts. Bentonite,tan,soft,lumpy.
- 3000 – 3010 Shale,grey,chunky,platy,soft to firm,dense,noncalcareous,gritty textured.
- 3010 – 3020 Shale,multicolored,green,grey,brick red,brown,reddish brown,maroon, chunky,firm,dense,noncalcareous,earthy textured,motteled in parts.
- 3020 – 3030 Sandstone,grey,very fine grained,rounded to subrounded,well sorted quartzose,many clear grains,many black shale inclusions,trace green grains,trace amber grains.
- 3030 – 3040 Sandstone,grayish white,very fine grained,rounded,well sorted quartzose,many clear grains,trace black and grey shale inclusions, trace amber grains.
- 3040 – 3050 Shale,multicolored,brick red,green,grey,brown,maroon,chunky,soft to firm,dense,motteled,noncalcareous,earthy textured.
- 3050 – 3060 Shale,brick red,grey,green,chunky,firm,dense,noncalcareous,earthy textured,smooth.
- 3060 – 3070 Shale,grey,green,chunky,blocky,firm,dense,noncalcareous,earthy to slightly gritty textured.

3079 – E Log Top - Sunburst

3070 – 3080 same as above.

3080 – 3090 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, trace amber grains, few grey chert grains.

3090 – 3100 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well Sorted quartzose, many clear grains, few grey chert grains, trace amber Grains.

3100 – 3110 Shale, green, lt green, chunky, firm, dense, noncalcareous, earthy textured Smooth. Bentonite, tan, cream, soft, lumpy.

3110 – 3120 Shale, green, chunky, blocky, firm, dense, noncalcareous, earthy to waxy Textured. Bentonite, white, soft, lumpy.

3120 – 3130 Shale, greenish grey, chunky, firm, dense, noncalcareous, waxy textured. Much Bentonite, white, soft, lumpy. Many coarse grained, angular orange grains in sample pan. Many unconsolidated grains in sample pan.

3135 – E Log Top - Morrison

3130 – 3140 Sandstone, white, clear, very fine to fine grained, rounded to subrounded well to moderately sorted quartzose, many clear and frosty grains. few grey grains.

3140 – 3150 Shale, multicolored, green, lt green, maroon, grey, "baby poop yellow", chunky, soft to firm, dense, noncalcareous, earthy textured.

3150 – 3160 Shale, brick red, reddish brown, trace yellow above, chunky, soft to firm, Dense, noncalcareous, earthy textured, Bentoite, white, soft, lumpy.

- 3160 – 3170 Shale, maroon, greenish grey, grey, chunky, soft to firm, dense, Noncalcareous, earthy to waxy textured. Bentonite, white, soft.
- 3170 – 3180 Shale, baby poop yellow, chunky, soft, noncalcareous, earthy textured. Shale, grey, lt grey, chunky, soft firm, dense, noncalcareous, earthy textured.
- 3180 – 3190 Siltstone, brown, chunky, blocky, firm to hard, dense, very calcareous, tight, no shows. Shale, grey, chunky, soft to firm, dense, calcareous, earthy to gritty textured.
- 3190 – 3200 Shale, dk grey, chunky, soft to firm, dense, calcareous, earthy to gritty textured, sandy in parts.
- 3208 – E Log Top - Swift
- 3200 - 3210 Sandstone, brown, very fine to fine grained, rounded to subrounded, well sorted, quartzose, many clear and dark grains.
- 3210 – 3220 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, gritty Textured. Many very fine grains in sample pan.
- 3220 – 3230 Sandstone, brown, very fine to fine grained, rounded to subangular, well to Moderately sorted quartzose, many clear grains and few grey grains.
- 3230 – 3240 Sandstone as above. Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 3240 – 3250 Sandstone, brown, very fine to fine grained, rounded, well sorted quartzose many clear grains. Shale dk grey, chunky, soft to firm, dense, noncalcareous gritty textured.
- 3250 – 3260 same as above.
- 3260 – 3270 Sandstone, brown, very fine grained, rounded, well sorted quartzose many clear and grey grains.

- 3270 – 3280 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3280 – 3290 Shale,greY,chunky,platy,firm,dense,noncalcareous,earthy to gritty textured.
- 3290 – 3300 Shale,greY,chunky,platy,firm,dense,noncalcareous,earthy textured.
- 3300 – 3310 Shale,greY,lt greY,chunky,platy,firm,dense,noncalcareous,earthy Textured.
- 3310 – 3320 Shale,dk greY,chunky,firm,dense,noncalcareous,gritty textured.
- 3320 – 3330 Shale as above.
- 3331 – E Log Top Rierdon
- 3330 – 3340 Marlstone,dove greY,chunky,blocky,firm to hard,dense,very calcareous earthy textured,micropyritic. Marlstone,tan,soft,lumpy,very calcareous.
- 3340 – 3350 same as above.
- 3350 – 3360 Marlstone,dove greY,chunky,soft to firm,dense,very calcareous,earthy textured,micropyritic.
- 3360 – 3370 same as above.
- 3370 – 3380 Marlstone,dove greY,chunky,firm to hard,dense,very calcareous, earthy textured,micropyritic. Marlstone,tan,soft,lumpy.
- 3380 – 3390 Marlstone as above.

Convert to Drilling mud. Drilled to Total Depth 3390 by Driller with air.Did not encounter any moisture.

3390 - 3400 Marlstone as above.

3400 – 3410 Marlstone, dove grey, greenish grey, chunky, firm to hard, dense, very calcareous, earthy textured, micropyrritic.

3416 – E Log Top - Sawtooth

3410 – 3420 same as above. Poor sample many cavings.

3420 – 3430 Siltstone, lt grey, chunky, blocky, soft to hard, dense, very calcareous, micropyrritic. Poor sample 50% cavings

3430 – 3440 Siltstone, lt grey, grey, chunky, blocky, firm to hard, dense, very calcareous Earthy textured, micropyrritic.

3445 – E Log Top – Madison Sun River Dolomite

3440 – 3450 Dolomite, tan, buff, chalky to sublithographic in most parts, Trace Dolomite Tan, buff, finely microcrystalline to pin point vugular porosity, fair Petroliferous odor, bright yellow fluorescence, strong flowing cut in Trichloroethane, possible oil pay.

Begin 5' Samples

3450 – 3455 Dolomite as above. Dolomite, tan, buff, finely microcrystalline porosity, Large pin point vugular porosity, fair to strong petroliferous odor, bright Yellow porosity, live brown oil stain, strong flowing cut in trichloroethane "Oil Payzone".

3455 – 3460 Dolomite, tan, buff, chalky, sublithographic, tight, dense, no shows. Few clusters with show as above.

3460 – 3465 Dolomite,tan,buff,cryptocrystalline to chalky,dense,nonshows,
Dolomite as above,shows as above.

3465 – 3470 Dolomite,tan,buff,fragmental,chalky,sublithographic,dense, pinpoint
vugular porosity in parts.no shows, Trace Dolomite,tan,white,finely
crystalline,sucrosic,pin point vugular porosity,fractures,fair petroliferous
odor,live brown oil stain, strong flowing cut in trichloroethane,oil pay.

Resume 10' Samples

3470 -3480 Dolomite,tan,coarsely crystalline porosity,honeycomb porosity,
large vugular porosity,very strong petroliferous odor,uniform
bright yellow fluorescence,live brown oil stain,strong flowing
cut in trichloroethane,oil payzone.

Resume 5' Samples

3480 – 3485 Same as above. Dolomite,tan,buff,chalky,sublithographic,dense,no shows.

3485 – 3490 Dolomite,tan,buff,white,chalky,finely crystalline,pinpoint vugular
porosity,chalky,dense,noncalcareous,no shows.

Resume 10' Samples

3490 – 3500 Dolomite as above. Shale,dk grey,chunky,firm,dense,noncalcareous,
earthy textured.

3500 – 3510 Dolomite,tan,white,chalky,finely microcrystalline,pinpoint vugular
Porosity,dense,no shows. Shale as above.

3510 – 3520 Dolomite,tan,buff,medium to coarse crystalline,large pin point
Vugular porosity,no shows,no stain,no fluorescence.

3520 – 3530 Dolomite,tan,buff,sublithographic,dense,tight,no shows.Chalky
in parts. Traces dolomite as above.

3530 – 3540 Dolomite, white, chalky sublithographic in parts, firm, dense, tight, no shows.
Shale dk grey, chunky, dense, noncalcareous, earthy textured

3540 – 3545 same as above.

3545 - Total Depth by Driller

3539 - Total Depth by Logger

Company: **ALATMONT OIL & GAS, INC**

Well: **JODY FIELD 4-1**
 Field: **CROCKER SPRINGS**
 County: **PONDERA**

State: **MONTANA**

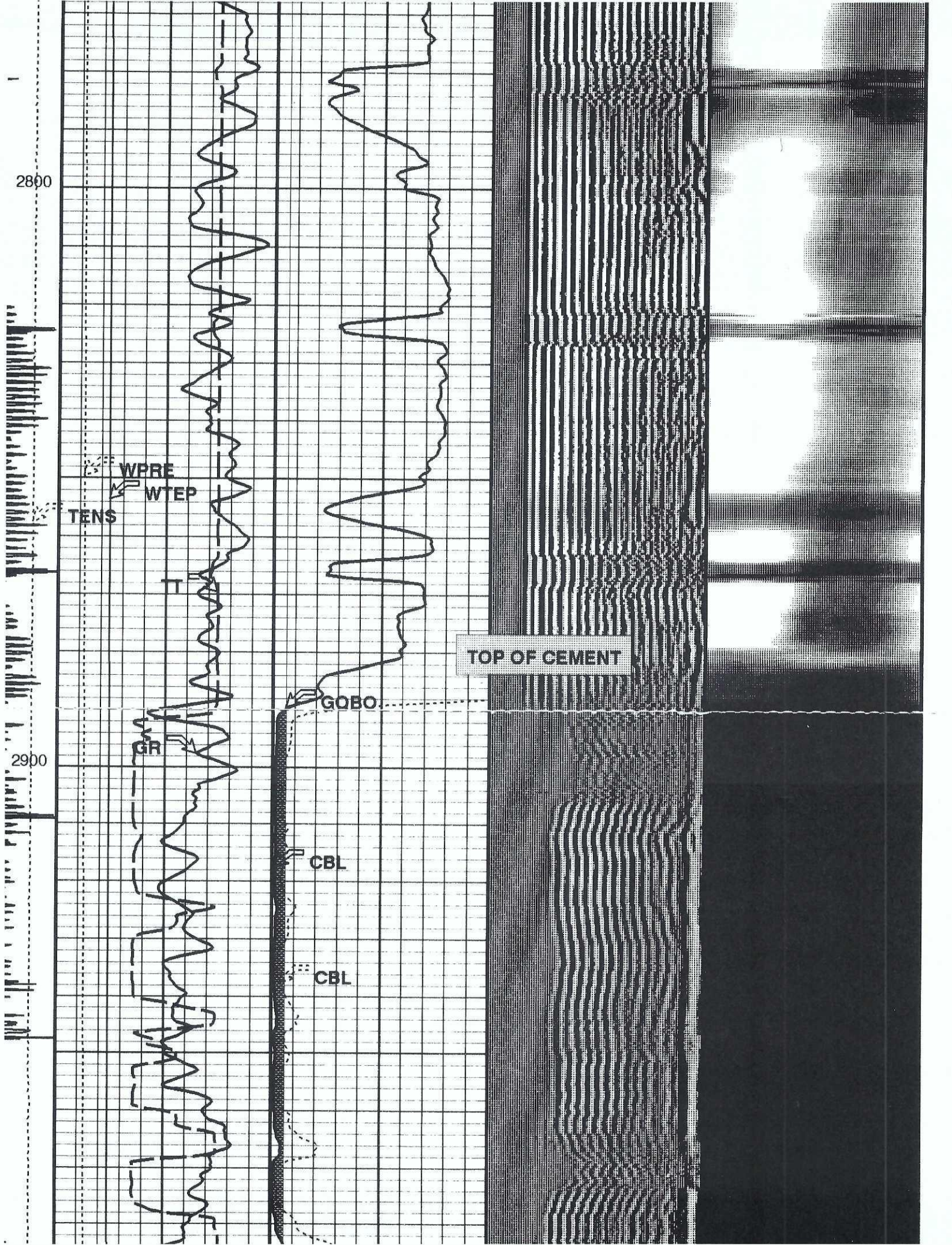
SCMT: CEMENT BOND LOG CBL-VDL GR-CCL-PRESSURE-TEMPERATURE

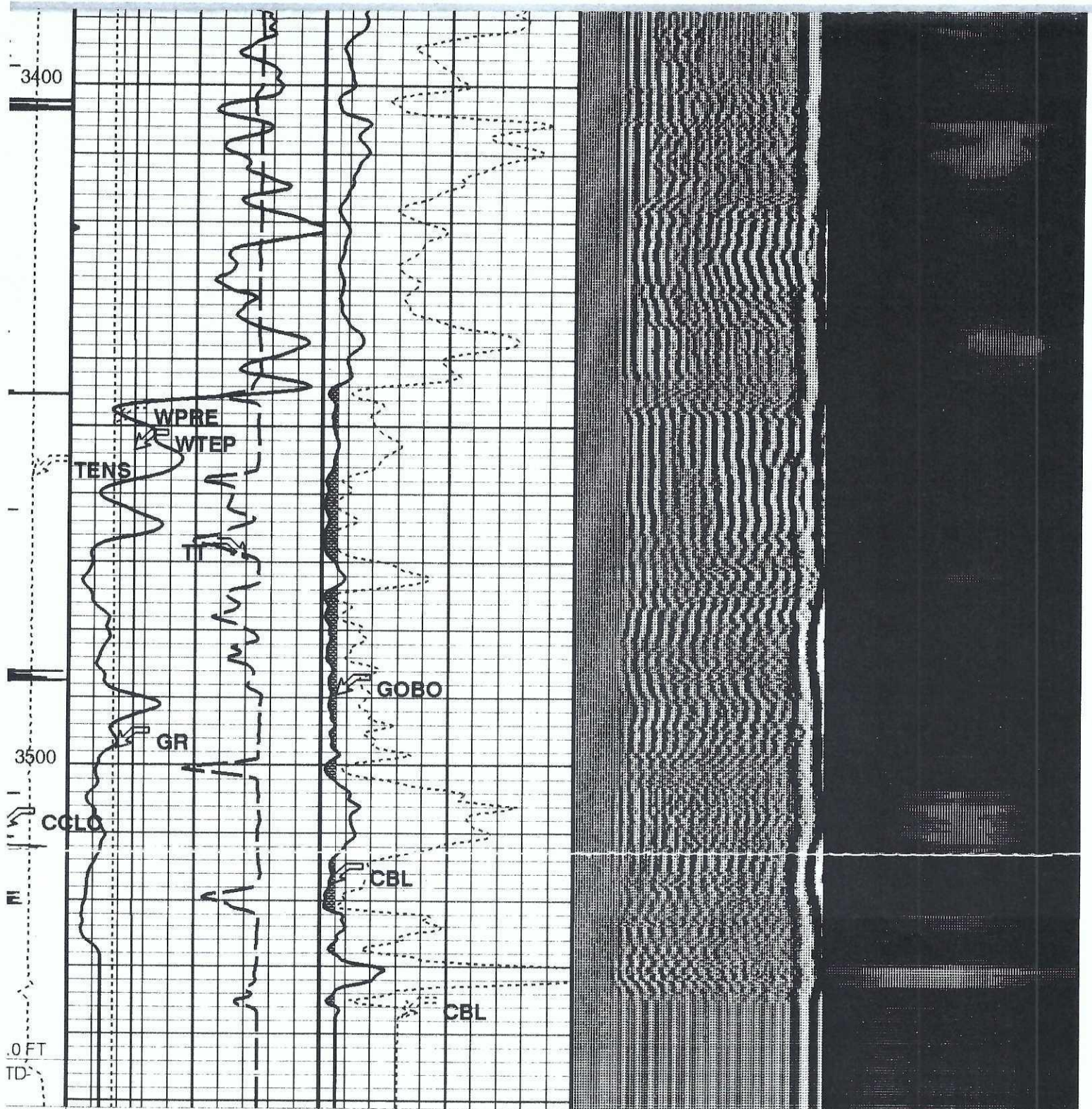
County: **PONDERA**
 Field: **CROCKER SPRINGS**
 Location: **NE NE 330' FNL & 430 FEL**
 Well: **JODY FIELD 4-1**
 Company: **ALATMONT OIL & GAS, INC**

LOCATION			
NE NE 330' FNL & 430 FEL	Elev.: K.B. 4075 ft G.L. 4070 ft D.F. 4075 ft	GROUND LEVEL	Elev.: 4070 ft
Permanent Datum:		Log Measured From: KELLY BUSHING	5.0 ft above Perm. Datum
Drilling Measured From:		KELLY BUSHING	
API Serial No. 25-073-21924	Section 4	Township 28N	Range 6W

Logging Date	30-Nov-2007		
Run Number	ONE		
Depth Driller	3450 ft		
Schlumberger Depth	3544 ft		
Bottom Log Interval	3536 ft		
Top Log Interval	2678 ft		
Casing Fluid Type	FRESH WATER		
Salinity			
Density	8.6 lbm/gal		
Fluid Level	400 ft		
BIT/CASING/TUBING STRING			
Bit Size	6.250 in		
From	0 ft		
To	3545 ft		
Casing/Tubing Size	4.500 in		
Weight	10.5 lbm/ft		
Grade			
From	0 ft		
To	3545 ft		
Maximum Recorded Temperatures	74 degF		
Logger On Bottom	30-Nov-2007	Time	14:00
Unit Number	375	Location	WILLISTON

PVT DATA			
	Run 1	Run 2	Run 3
Oil Density			
Water Salinity			
Gas Gravity			
Bo			
Bw			
1/Bg			
Bubble Point Pressure			
Bubble Point Temperature			
Solution GOR			
Maximum Deviation			
CEMENTING DATA			
Primary/Squeeze	Primary		
Casing String No			
Lead Cement Type			
Volume			
Density			
Water Loss			
Additives			
Expected Cement Top	2700 ft		
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Fluid Type			
Salinity			
Density			
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size			
From			
To			
Casing/Tubing Size			
Weight			
Grade			
From			
To			
Maximum Recorded Temperatures			
Logger On Bottom			
Unit Number			
Location			





CASING NOT PRESSUREIZED

- 2.5000
- 5.0000
- 7.5000
- 10.0000
- 12.5000
- 15.0000
- 17.5000
- 20.0000
- 22.5000
- 25.0000
- 27.5000
- 30.0000
- 32.5000
- 35.0000
- 37.5000
- 40.0000
- 42.5000
- 45.0000
- 47.5000
- 50.0000
- 52.5000
- 55.0000

ision (ENS) Gamma Ray (GR) CBL Amplitude (CBL) Min Amplitude Max

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 4-1A
NENENE Section 4-T28N-R6W
(330' FNL – 380' FEL)
Glacier County, Montana
API No. 25-073-21842

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: May 18, 2009
Completion Date: May 23, 2009
Status: Madison Sun River Dolomite "Wildcat
Oil Well Discovery"
Elevation: 4070' GR. 4075' KB.
Total Depth: 3442' Driller 3462' Driller (Completion)
Casing: Ran 17 joints 7", 17#/ft, lrd, 8rd, ST&C, Rge 3
(729.17) set @ 726.67 KB cemented with 160sx
Class G cement, 3% Calcium Chloride, 3% Calcium
chloride, 1/2# floccelle.
Ran 85 joints 4 1/2", 10.5#/ft, 8rd, ST&C, Rge 3
(3442.91') set @ 3440.91' KB cemented with
60 sx Class G, 2% CaCO₃
Contractor: GaSco Drilling LLC Rig No.7
Type Rig: Atlas Copco RD20 (Tophead Drive)
Mud Pump: Gardner Denver FXK (6" x 14")
Air Compressor: Atlas Copco (1250mmcf 350psi)
Air Program: Surface to 3442'
Mud Program: 3442
Hole Size: 8 3/4" (0-730') 6 1/4" (730' - 3442')
Size Drill Pipe: 3 1/2" O.D. x 2 1/2" I.D. (13.30 #/ft.)
Size Drill Collars: 4 3/4" O.D. x 2 1/8" I.D. (353') Weight Pipe =
4 1/2" O.D. x 2" I.D. (16.60 #/ft.) (120')
No. Drill Collars: 13 = 354'
Sample Intervals: 30' (1950' - 2310') (2560' - 2980')
10' (1700' - 1950') (2310' - 2560') (2980' - 3442')
Sample Quality: Good
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 8 3/4" hole with air (mist) from 37' to 730'. Did not show strong flow of water through the drilling of the surface hole. Drilled 6 1/4" hole with air from 730' to 3442'. No gas was encountered. Total depth 3442' by driller with air. Converted to mud drilling program at 3442'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

No Logs were run.

Mud Summary

Max Gel -17sx

Plat Pac UL - 8 - 5gallons

<u>Bit Record</u>								
<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Interval</u>	<u>Footage</u>	<u>Hours</u>	<u>Jet Size</u>	<u>Serial No.</u>
1	8 3/4"	STC	CH-14	0 - 730	730	18.00	open	225925
2	6 1/4"	HTC	STX-20	730-3442	2712	28.00	open	5123271
3	3 7/8"	Varel	DW531	3442-3462	20	1.0	reg	1016538

Vertical Surveys

<u>Depth</u>	<u>Degrees</u>
251'	1/4*
730'	1/4*
1305'	1/2*
1970'	1/2*
2540'	1/2*
3272'	1/2*

Sample Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996
<u>Jurassic</u>		
Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659
<u>Mississippian</u>		
Madison(Sun River Dolomite)	---	---
<u>Total Depth:</u>	3542	+633

Daily Activity Summary (Calendar Days)

- May 18,2009 Moved in and Rigged up Gasco Drilling LLC Rig No. 7
Spud 8 3/4" hole at 11:00A.M. Drilled 8 3/4" surface hole from 0' to 37'. Drive 9 5/8" casing set @ 16.00' set @ 17'.
Repair upper radiator hose. Nipple up deflector head.
Drilled 8 3/4" surface hole with air mist from 37' to 446'.
- May 19,2009 Drilled 8 3/4" surface hole with air mist from 446 to 730'.
Total Depth 730' by Driller. Condition hole for surface casing. Ran 17 joints 7", 17#/ft, Ltd, 8rd, ST&C, (729.79) set @ 728.79' KB cemented with 160 sacks Class G cement + 3% Calcium Chloride, 1/2#/sack focelle. Good returns to surface. Plug down at 2:00 P.M. W.O.C. Nipple up BOP.
- May 20,2009 Trip in hole with 6 1/4" bit. Clean and dry hole. Drilled cement plug and dry hole. Ran survey. Dry hole. Drilled out @ 2:30A.M..
Drilled 6 1/4" hole with air from 730' to 2881'.
- May 21,2009 Drilled 6 1/4" hole with air from 2881' to 3442'.
Total depth 3442' by driller.
Total depth by driller with air. Did not encounter any moisture.
Converted to drilling mud @ 7:00A.M.
Condition hole for 4 1/2" production casing. Short trip. Condition hole for 4 1/2" production casing. Trip out of hole for 4 1/2" Production casing. Rig up to run production casing.
- May 22, 2009 Ran 85 joints 4 1/2", 9.5#/ft, API., J55, 8rd, ST&C, Rge 3 (3442.91') set @ 3440.91'. Lower viscosity to 40. Cemented Well with 60 sacks Class G cement with 2% calcium chloride. Plug down @ 1:30A.M.. Set 4 1/2" casing in the Slips. Report Ends.
- May 23, 2009 T.D. Nipple up BOP. Pick up 2 3/8" tubing. Tagged plug at 3418'. Mist up to drill out 4 1/2" plug. Drilled 3 7/8" hole with air mist from 3442' to 3460'. Test well, no show of oil or water. Drilled 3 7/8" Hole with air mist from 3460' to 3462'. Shut in for 1 1/2 hr. No show, no oil, no water, no odor. Note Driller Total Depth 3468'. Last 5' run in with no rotation or weight. Rig down.

Lithology

Sample descriptions begin at 1700', in the Cretaceous Colorado. Sample descriptions are not corrected for drill time lag. Formation tops were determined from electric logs. Samples were examined and described wet except for the samples in the Mississippian Madison Sun River Dolomite that were described dry.

SAMPLES CAUGHT IN 10' INTERVAL:

- 1700 – 1710 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, gritty in parts.
- 1710 – 1720 same as above.
- 1720 – 1730 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured to gritty textured, sandy in parts.
- 1730 – 1740 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous. Bentonite, tan, soft, lumpy.
- 1740 – 1750 same as above. Bentonite, tan, white, soft, lumpy.
- 1750 – 1760 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous.
- 1760 – 1770 same as above.
- 1770 – 1780 Shale, grey, chunky, firm to hard, dense, noncalcareous, earthy textured, micromicaceous.
- 1786 – Sample Top - Blackleaf
- 1780 – 1790 Shale, dk greyish black, chunky, blocky, firm to hard, dense, very calcareous,

many tan specks.

1790 – 1800 Shale as above.

1800 – 1810 Shale, dk grey, chunky, blocky, firm to hard, dense, very calcareous, earthy textured, many tan specks.

1810 – 1820 same as above.

1825 – Sample Top – Blackleaf Bentonite

1820 – 1830 Shale, dk grey, chunky firm, dense, calcareous, earthy textured.

1830 – Sample Top – Blackleaf Sandstone

1830 – 1840 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy, micromicaceous.

1840 – 1850 Shale as above.

1850 – 1860 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone, grey, blocky, hard, dense, noncalcareous, tight.

1860 – 1870 Sandstone, grey, very fine to fine grained, subrounded to subangular, Moderately sorted quartzose, many clear and grey grains,

1870 – 1880 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, many unconsolidated grains in sample pan. Siltstone, grey, blocky, hard, dense, noncalcaeous, tight.

1884 – Sample Top - 1st Bow Island

1880 – 1890 Many unconsolidated grains in sample pan. Sandstone, dk grey, very fine grained, rounded, well sorted quartzose. Bentonite, tan, soft, lumpy.

1890 – 1900 same as above.

1900 – 1910 Siltsone, grey, blocky, hard, dense, noncalcareous, tight

1910 – 1920 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone as above. Unconsolidated grains in sample pan.

1920 – 1930 Bentonite, tan, white, soft, waxy, lumpy, micromicaceous. Shale, dk grey
Chunky, hard, dense, noncalcareous, earthy textured.

1930 – 1940 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured.

1940 – 1950 Bentonite, tan, soft, lumpy. Many unconsolidated grains in sample pan.

Begin 30' Samples

1950 – 1980 Sandstone, grey, very fine grained, rounded, well sorted quartzose, many clear and grey grains, trace glauconite grains.

1980 – 2010 Bentonite, tan, soft, lumpy. Shale, greenish grey, chunky, firm, dense, noncalcareous, gritty textured. Siltstone, greenish grey, blocky, hard, dense noncalcareous, tight.

2026 – Sample Top – 2nd Bow Island

2010 – 2040 Sandstone, grey, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, few black chert grains, few glauconite grains.

2040 – 2070 Shale, chocolate brown, chunky, firm to hard, dense, waxy textured, trace orange zeolites. Bentonite, tan, soft, lumpy

2070 – 2100 Shale, lt green, chunky, firm, dense, noncalcareous, waxy textured. Much Bentonite, tan, soft, lumpy.

2100 – 2130 Sandstone, greenish grey, very fine to medium grained, coarse grained in parts, subrounded to angular, poorly sorted quartzose, many clear grains, trace black chert grains, trace glauconite grains.

2134 – Sample Top – 3rd Bow Island

- 2130 – 2160 Sandstone, brownish white, very fine grained, rounded, well sorted quartzose, many clear and grey grains.
- 2160 – 2190 Shale, black, chunky, firm, dense, noncalcareous, waxy textured.
- 2190 – 2220 Bentonite, tan, soft, lumpy, micromicaeous, Shale, lt green, chunky, Soft, dense, noncalcareous, waxy textured.
- 2220 – 2250 Shale, green, grey, chunky, soft to firm, dense, noncalcareous, earthy to waxy many orange zeolites. Textured. Bentonite, tan, soft, lumpy.
- 2250 – 2280 Bentonite, tan, soft, lumpy. Sandstone, brown, very fine grained, rounded, well sorted quartzose.
- 2280 – 2310 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy to gritty Textured. Bentonite, tan, soft, lumpy.

Resume 10' Samples

- 2310 – 2320 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2320 – 2330 Bentonite, tan, soft, lumpy. Shale as above.
- 2330 – 2340 Sandstone, dk grey, very fine grained, well sorted, rounded quartzose many unconsolidated grains in sample pan, many clear and grey grains, trace glauconite grains. Bentonite, tan soft, lumpy. Shale, dk grey, chunky firm, dense noncalcareous, gritty textured.
- 2340 – 2350 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 2350 – 2360 same as above.

2367 – Sample Top – 4th Bow Island “A” Sandstone

- 2360 – 2370 Sandstone, grey, very fine to fine, rounded to subrounded, moderately sorted quartzose, noncalcareous, many clear grains, few black chert grains, few glauconite grains.

2370 – 2380 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear grains, many grey grain, few glauconite grains.

2380 – 2390 same as above.

2390 – 2400 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
bentonite, tan, soft, lumpy. Many unconsolidated grains in sample
pan.

2400 – 2410 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
sandy in parts. Bentonite, tan, soft, lumpy.

2413 – Sample Top – 4th Bow Island “B” Sandstone

2410 – 2420 Sandstone, grey, very fine grained, rounded, well sorted
quartzose, many clear and grey grains, few glauconite grains.

2420 – 2430 same as above becoming slightly coarser grained, very bentonitic.

2430 – 2440 Sandstone, dk grey, very fine grained, rounded to subrounded, well sorted
quartzose, many grey grains, few glauconite grains, bentonitic.

2440 – 2450 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty to sandy
textured. Many unconsolidated grains in sample pan.

2450 – 2460 Shale, grey, chunky, soft to firm, dense, noncalcareous, gritty textured
unconsolidated grains in sample pan.

2460 – 2470 same as above. Bentonite, tan, soft, lumpy.

2470 – 2480 Shale, dk grey, grey, chunky, firm, dense, noncalcareous, earthy textured,
Bentonitic.

2480 – 2490 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy textured,
Micromicaceous.

- 2490 – 2500 same as above. Many unconsolidated grains in sample pan.
- 2500 – 2510 Shale, grey, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2510 – 2520 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear and grey grains, few glauconite grain, bentonitic.
- 2520 – 2530 Many unconsolidated grains in sample pan. Shale, grey, chunky,
firm, dense, noncalcareous, gritty textured. Sandstone as above.

2539 – Sample Top - Dakota

- 2530 – 2540 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured,
micromicaceous. Bentonite, tan, soft, lumpy.
- 2540 – 2550 Sandstone, lt grey, very fine grained, rounded, well sorted quartzose
many clear grains few grey grains.
- 2550 – 2560 Sandstone, clear, very fine grained, rounded to subangular, well sorted
Quartzose, many clear grains, few grey chert grains, bentonitic.

Resume 30' Samples

2582 – Sample Top - Kootenai

- 2560 – 2590 Sandstone, brown, very fine to medium grained, rounded to subangular
Moderately sorted quartzose, many unconsolidated
grains. Bentonite, tan, soft.
- 2590 – 2620 Shale, grey, chunky, firm, dense, noncalcareous, earthy to
gritty textured.

- 2620 – 2650 Sandstone, grey, very fine to fine grained, rounded to subrounded, well to moderately sorted quartzose, many clear grains, many grey shale inclusions many black chert grains.
- 2650 – 2680 Sandstone, grayish white, very fine to fine grained, rounded to subangular, moderately sorted quartzose, many clear grains, many grey and black grains.
- 2680 – 2710 Shale, brick red, green, lt green, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured.
- 2710 – 2740 Sandstone, green, lt green, very fine grained, rounded, well sorted quartzose many unconsolidated grains, many clear grains, orange shale as above. Shale green, chunky, firm, dense, noncalcareous, gritty textured.
- 2740 – 2770 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured. Bentonite, tan, soft, lumpy.
- 2770 – 2800 Sandstone, green, lt green, very fine to fine, rounded to subrounded, well sorted quartzose, many clear and frosted grains, many glauconite grains.
- 2800 – 2830 Shale, green, chunky, firm, dense, noncalcareous, earthy textured, smooth. shale, grey, chunky, firm, dense, noncalcareous, earthy textured.
- 2830 – 2860 Shale, brick red, maroon, green, grey, chunky, firm, dense, noncalcareous, gritty textured. Bentonite, white, soft waxy.
- 2860 – 2890 Shale, multicolored, green, brick red, grey, reddish brown, maroon, chunky, soft to firm, dense, noncalcareous, earthy textured.
- 2890 – 2920 Sandstone, grey, very fine to fine grained, rounded to subangular, moderately Sorted quartzose, many clear grains, many grey grains, many amber grains, Bentonitic.

- 2920 – 2950 Sandstone, dk brown, very fine grained, rounded, well sorted quartzose, Bentonitic, tan, soft, lumpy.
- 2950 – 2980 Shale, brick red, chunky, soft to firm, dense, noncalcareous, gritty textured. turns sample bag bick red.

Begin 10' Samples

- 2980 – 2990 Shale, brown, brick red, chunky, firm, dense, noncalcareous, earthy to gritty textured.
- 2990 – 3000 Shale, green, chunky, soft to firm, dense, noncalcareous, gritty textured, sandy in parts. Bentonite, tan, soft, lumpy.
- 3000 – 3010 Shale, grey, chunky, platy, soft to firm, dense, noncalcareous, gritty textured.
- 3010 – 3020 Shale, multicolored, green, grey, brick red, brown, reddish brown, maroon, chunky, firm, dense, noncalcareous, earthy textured, mottled in parts.
- 3020 – 3030 Sandstone, grey, very fine grained, rounded to subrounded, well sorted quartzose, many clear grains, many black shale inclusions, trace green grains, trace amber grains.
- 3030 – 3040 Sandstone, grayish white, very fine grained, rounded, well sorted quartzose, many clear grains, trace black and grey shale inclusions, trace amber grains.
- 3040 – 3050 Shale, multicolored, brick red, green, grey, brown, maroon, chunky, soft to firm, dense, mottled, noncalcareous, earthy textured, mottled.
- 3050 – 3060 Shale, brick red, grey, green, chunky, firm, dense, noncalcareous, earthy textured, smooth.
- 3060 – 3070 Shale, lt. grey, chunky, blocky, firm, dense, noncalcareous, waxy textured.

3079 – Sample Top - Sunburst

- 3070 – 3080 Shale, mustard yellow, grey, chunky, firm, dense, noncalcareous, Earthy to gritty textured. Many unconsolidated grains in sample pan, very fine grained.
- 3080 – 3090 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, trace amber grains, few grey chert grains.
- 3090 – 3100 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, few grey chert grains, trace amber grains, bentonitic.
- 3100 – 3110 Shale, green, lt green, chunky, firm, dense, noncalcareous, earthy textured Smooth. Mostly Bentonite, tan, cream, soft, lumpy.
- 3110 – 3120 Shale, dk grey, chunky, blocky, firm, dense, noncalcareous, waxy Textured. Bentonite, white, soft, lumpy.
- 3120 – 3130 Shale, lt. greyish, grey, chunky, firm, dense, noncalcareous, waxy textured. much Bentonite, white, soft, lumpy. Many coarse grained, angular orange grains in sample pan. Many unconsolidated grains in sample pan.

3135 – Sample Top - Morrison

- 3130 – 3140 Sandstone, white, tan, clear, very fine to fine grained, rounded to subrounded well to moderately sorted quartzose, many clear and frothy grains. few grey grains.
- 3140 – 3150 Shale, multicolored, brick red, green, lt green, maroon, grey, "baby poop yellow", chunky, soft to firm, dense, noncalcareous, earthy textured.
- 3150 – 3160 Shale, brick red, reddish brown, trace yellow above, chunky, soft to firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy.

- 3160 – 3170 Shale, maroon, greenish grey, grey, chunky, soft to firm, dense, Noncalcareous, earthy to waxy textured. Bentonite, white, soft.
- 3170 – 3180 Shale, baby poop yellow, chunky, soft, noncalcareous, earthy textured. Shale, grey, lt grey, chunky, soft firm, dense, noncalcareous, earthy textured.
- 3180 – 3190 Siltstone, brown, chunky, blocky, firm to hard, dense, very calcareous, tight, no shows. Shale, grey, chunky, soft to firm, dense, calcareous, earthy to gritty textured.
- 3190 – 3200 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured, sandy in parts. Limestone, tan, buff, sublithographic, dense, tight, very calcareous.
- 3208 – E Log Top - Swift
- 3200 - 3210 Sandstone, brown, very fine to fine grained, rounded to subrounded, well sorted, quartzose, many clear and dark grains.
- 3210 – 3220 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, gritty Textured. Many very fine grains in sample pan.
- 3220 – 3230 Sandstone, brown, very fine to fine grained, rounded to subangular, well to Moderately sorted quartzose, many clear grains and few grey grains.
- 3230 – 3240 Sandstone as above. Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 3240 – 3250 Sandstone, brown, very fine to fine grained, rounded, well sorted quartzose many clear grains. Shale dk grey, chunky, soft to firm, dense, noncalcareous gritty textured.

- 3250 – 3260 same as above.
- 3260 – 3270 Sandstone,brown,very fine grained,rounded,well sorted quartzose many clear and grey grains.
- 3270 – 3280 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3280 – 3290 Shale,grey,chunky,platy,firm,dense,noncalcareous,earthy to gritty textured.
- 3290 – 3300 Shale,grey,chunky,platy,firm,dense,noncalcareous,earthy textured.
- 3300 – 3310 Shale,grey,lt grey,chunky,platy,firm,dense,noncalcareous,earthy Textured.
- 3310 – 3320 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3320 – 3330 Shale as above. Shale,tan,light brown,blocky,firm,dense,very calcareous, Slightly gritty textured.
- 3331 – Sample Top - Rierdon(Ellis Formation)
- 3330 – 3340 Marlstone,dove grey,chunky,blocky,firm to hard,dense,very calcareous earthy textured,micropyrctic. Marlstone,tan,soft,lumpy,very calcareous. Marlstone,white,soft,lumpy,very calcareous.
- 3340 – 3350 same as above.
- 3350 – 3360 Marlstone,dove grey,chunky,soft to firm,dense,very calcareous,earthy textured,micropyrctic.
- 3360 – 3370 same as above.
- 3370 – 3380 Marlstone,dove grey,chunky,firm to hard,dense,very calcareous, earthy textured,micropyrctic. Marlstone,tan,soft,lumpy.
- 3380 – 3390 Marlstone as above.

3390 - 3400 Marlstone, dove grey, greenish grey, chunky, firm to hard, dense, very calcareous, micropyrritic. earthy textured. Marlstone, white, soft, lumpy, very calcareous.

3400 – 3410 Marlstone, dove grey, greenish grey, chunky, firm to hard, dense, very calcareous, earthy textured, micropyrritic.

3416 – Sample Top - Sawtooth

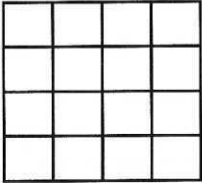
3410 – 3420 Siltstone, lt greenish grey, chunky, firm to hard, dense, very calcareous, gritty to sandy textured, micropyritic, sandy in parts.

3420 – 3430 Siltstone, lt grey, chunky, blocky, firm to hard, dense, very calcareous, micropyritic. Much Pyrite.

3430 – 3440 Siltstone, lt grey, grey, chunky, blocky, firm to hard, dense, very calcareous sandy textured, micropyritic. Much pyrite.

3440 – 3442 Sandstone, tan, cream, very fine grained, rounded, well sorted quartzose, calcareous, many unconsolidated grains in sample pan, no shows.

3442 - Total Depth by Driller



TO
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

COMPLETION REPORT

API # 25 - 073 - 21872

Company ALTAMONT OIL & GAS, INC Lease FIELD Well No. 4-1A
Address PO BOX 488 Field or Area WILDCAT
CUT BANK, MT 59427

Surface Location: 330 ft. from N Line, 380 ft. from E Line, Sec. 4 T 28N R 6W
(N/S) (EW)

County PONDERA Elevation 4,070' GL 4,075' KB
(Surface) (KB)

Date Spud 5/19/2009 Date Completed 5/23/2009 Completed as OIL - SHUT-IN
(Oil, gas, cbm, injection, dry hole, etc.)

The information given herewith is a complete and correct record of the well as of the date of preparation.

Signed [Signature]
Title PRESIDENT & CEO Date 6/30/2010
Telephone (406) 873-9000

For Vertical Well: Total depth 3,468 ft. Plugged back to _____ ft.
For Horizontal or Directionally Drilled Well: Enter well bore and bottom hole location data on page 2 of this form.
For coal bed natural gas well: Static water level _____ ft. below reference elevation of _____ ft.

Casing and Tubing Record

Well Bore	String Type	String			Length (Feet)	From (MD, Feet)	To (MD, Feet)	Cement (Sacks)	Cement Top (MD, Feet)	Packer Set (MD, Feet)
		Size	Weight	Grade						
8-3/4"	Surface	7"	17#/ft	Ltd	17 jts	0	726.67' KB	160	726.67' KB	
6-1/4"	Production	4-1/2"	10.5#/ft	API	85 jts	726.67' KB	3440.91' KB	60	3440.91' KB	

Perforated or Open-hole Intervals

Well Bore	Open Hole/Perf'd Zone		Holes per foot	Size and Type	Open or Isolated (method of isolation)
	Top	Bottom			
4-1/2"	3,444'	3468'	Driller	Open Hole - 3-7/8"	Open
		3460'	Logger		

Acidized, Shot, Fraced, Squeezed, or Cemented

Well Bore	Interval		Treatment Type	Amount and Type of Material	Max. Rate (BBLs/Min)	Max. Pressure (PSI)
	Top	Bottom				
	3444'	3468'	Driller	500 Gal 15% HCl	3.0/min	1300#/s
		3460'	Logger			

Well is producing from Madison/Sun River Dolomite formation(s) or pool(s).

I.P. SI barrels of oil, _____ MCF of gas, and _____ barrels of water per _____ hours.

Sample Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996

Jurassic

Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659

Mississippian

Madison(Sun River Dolomite)

Total Depth:

3542 +633
3462 +613

CHECK SHEET

Date: 11/5/2007 API Number: 073-21824
Company: AltaMont Oil & Gas Inc.
Well Name: Jody Field 4-1
County: Pondera
Field: Wildcat Pondera
Surf. Location: 330 FNL 430 FEL NE NE Lot: 1 Sec: 4 Twp: 28 N Rng: 6 W

Permit Number: 26160 Drilling Fee: _____

Intention to Drill: 11/5/2007 Expiration Date: 5/5/2008

Mineral Ownership: Private State Federal Indian

Well Type: Vertical Multiple Laterals

Proposed Depth/Formation: MD: 3450 TVD: Madison

Drilling Unit _____ Acres _____ Description: _____

Samples Required: Received: _____

COMPLETION INFORMATION

Completion Date: November 18, 2007 TD: 3545 PBTD: 3463

Completed As: Oil Well IP / Formation: 168 BOD, 0 MCFD, 0 BWD
Madison

Geological Well Report: _____ Mud Log: _____

Sundry Notices: Int - Abandon 1/7/09

Subsequent Report of Abandonment: Received: 7-1-10 Approved: 8-17-10

Electric Logs: PE CN. TD / PE Array Ind / PE CN - Lithodensity AT / 1-7-09
Performance Log / CBL - CAL - VDL - GR - CCL Pressure - Temperature Log / 2-29-09

Miscellaneous: _____

LOCATE WELL CORRECTLY

		4	

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

COMPLETION REPORT

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Form No. 4 R 4-85

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

FEB - 5 2009

MONTANA BOARD OF OIL
& GAS CONSERVATION, BILLINGS

Company ALTAMONT OIL & GAS, INC Lease JODY FIELDS Well No. 4-1

Address PO BOX 200 - CUT BANK MT 59427 Field (or Area) WILDCAT

The well is located 330 ft. from (N) line and 430 ft. from (E) line of Sec. 4

Sec. 3; T. 28N; R. 6W; County PONDERA; Elevation 4070' GL
(D.F., R.B. or G.L.)

Commenced drilling November 5, 2007, ~~X9~~; Completed November 18, 2007, ~~X9~~

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)

Signed 
PATRICK M. MONTALBAN

API# 25-073-21824

Title PRESIDENT & CEO

Date DECEMBER 31, 2008

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>3446'</u> to <u>3452'</u> <u>O & G</u>	From _____ to _____
From <u>3456'</u> to <u>3463'</u> <u>O & G</u>	From _____ to _____
From <u>3467'</u> to <u>3474'</u> <u>O, G & W</u>	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	894.41'	0	894.41'	180 Sacks	Class G Cement
4-1/2"	10.5#/ft	API	ST&C	3545'	894.41'	3454'	100 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7#/ft	J55	ST&C	108 Jts	

COMPLETION RECORD

Rotary tools were used from 0 to 3545'

Cable tools were used from _____ to _____

Total depth 3545 ft.; Plugged back to 3463' T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3446'	3450'	3-1/8" HSC				
3466'	3470'	"				
3470'	3474'	"				

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from MADISON (pool) formation.

I.P. 7 barrels of oil per 1 hours (pumping or flowing)

_____ Mcf of gas per _____ hours.
_____ barrels of water per _____ hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-in	F.P.	S.I.P.	Recovery	Cushion
	NONE							

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
ARRAY INDUCTION LOG	894'	3531'
COMPENSATED NEUTRON & THREE DETECTOR		
DENSITY	894'	3531'

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

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**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Electric Log Formation Tops

Cretaceous	Depth	Datum
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996
Jurassic		
Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659
Mississippian		
Madison(Sun River Dolomite)	3445	+630
Total Depth:	3539	+536

073-21824

FORM NO. 22 R7/99

SUBMIT IN QUADRUPPLICATE TO:

ARM 36.22.307
ARM 36.22.501**MONTANA BOARD OF OIL AND GAS CONSERVATION**
2535 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102Lease Name:
JODY FIELDLease Type (Private/State/Federal):
PRIVATEWell Number:
#4-1

Unit Agreement Name:

Application for Permit

To: Drill Deepen Re-enter
Oil Gas Other

Operator: ALTAMONT OIL & GAS, INC

Address PO BOX 488

City CUT BANK State MT ZIP 59427

Telephone Number 406.873.9000

Surface Location of Well (quarter-quarter section and footage measurements)

NENENE-SECTION 4-T28N-R6W
(330' FNL x 430' FEL) Lot 1Field Name or Wildcat:
WILDCATObjective Formation(s):
BOW ISLAND, SUNBURST & MADISON
Section, Township, and Range:
Section 4-T28N-R6W

County:

PONDERA

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(if directionally drilled, show both surface and bottom hole locations above)

OCT 17 2007

Proposed total depth

3,450'

Formation at total depth

MADISON/SUN RIVER

Elevation (indicate GL or KB)

4070' GL

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Size and description of drilling/spacing unit

40 ACRES (NE/4) NENE

API number of another well on this lease (if any)

Anticipated spud date

10/20/2007

Hole size	Casing size	Weight/foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
8-3/4"	7"	17#/ft	J55	650'	245 sx	Class G
6-1/4"	4-1/2"	9.5#/ft	J55	3,450'	100 sx	Class G

Describe Proposed Operations:

Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.

Altamont Oil & Gas, Inc proposes to drill this well to test for oil and or gas in the Bow Island, Sunburst & Madison formations. No DST's or cores are planned. Surface casing will be cemented from surface to approximately 650' ensuring good returns to surface. The well will be drilled with air and drilling mud from casing point to TD. Open hole logs will be run from surface to TD. Production zones will be perforated & tested. Blowout equipment will be as indicated on the attached exhibit and will be tested at regular intervals.

BOARD USE ONLY

Approved (date) NOV 05 2007
By Steve Savabe Permit Fee \$2500 / \$5000
Check Number 9060 111650
Title **CHIEF FIELD INSPECTOR** Permit Expires MAY - 5 2008
Permit Number 26160

The undersigned hereby certifies that the information contained on this application is true and correct:

Signed (Agent) Patrick M. MontalbanTitle President & CEODate 10/15/2007THIS PERMIT IS SUBJECT TO THE
CONDITIONS OF APPROVAL
STATED ON THE BACKAPI Number 25- 073-21824Samples Required: NONE ALL FROM _____ feet to _____ feetCore chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:
Montana Board of Oil and Gas Conservation
2525 St. Johns Avenue
Billings, MT 59102

Saltwater Pits Shall Be Impermeable

Only freshwater based fluid may be used when
drilling surface hole Rule 36.22.1001

SUPPLEMENTAL INFORMATION

Note: Additional information or attachments may be required by Rule or by special request.

1. Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
2. Attach an 8 $\frac{1}{2}$ x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a $\frac{1}{2}$ mile radius of the well.
3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut /fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor.) Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications.
N/A
5. Describe the proposed plan for the treatment and/or disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
N/A
6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:

No additional permits needed

- Stream crossing permit (apply through county conservation district)
- Air quality permit (apply through Montana Department of Environmental Quality)
- Water discharge permit (apply through Montana Department of Environmental Quality)
- Water use permit (apply through Montana Department of Natural Resources and Conservation)
- Solid waste disposal permit (apply through Montana Department of Environmental Quality)
- State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
- Federal drilling permit (specify agency)
- Other federal, state, county, or local permit or authorization: (specify type) _____

NOTICES:

1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

WARNING: Failure to comply with conditions of approval may void this permit.

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OCT 17 2007

WELL LOCATION

FIELD #4-1
GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.
PONDERA COUNTY, MONTANA
330' FNL X 430' FEL
ELEVATION BEFORE GRADING: 4070'

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS



ELEVATION BEFORE GRADING: 4070'
BASIS - NAVD 29

GEOGRAPHIC COORDINATES:
48°13'15.3" N 112°22'28.4" W (NAD 83 BASIS)

BASE POSITION FOR GEOGRAPHIC COORDINATES:
48°12'38.97587" N 112°22'44.76679" W (NAD 83 BASIS)
(NGS CONTROL POINT CONE, THIRD ORDER)


LAND USE: GRASSLAND

NO ATTEMPT HAS BEEN MADE BY THE SURVEYOR TO LOCATE UNDERGROUND STRUCTURES OR BURIED UTILITIES, AND APPROPRIATE AGENCIES AND SURFACE LANDOWNERS MUST BE CONTACTED FOR FIELD LOCATION OF ANY UNDERGROUND STRUCTURES OR BURIED UTILITIES BEFORE ANY CONSTRUCTION COMMENCES. CALL 1-800-424-5555 BEFORE ANY CONSTRUCTION COMMENCES.

NOTE: SUBDIVISION LINES AND GOVERNMENT LOT BOUNDARIES ARE SHOWN FOR DEPICTIVE PURPOSES ONLY AND SHOULD NOT BE USED FOR SCALING OR LOCATION PURPOSES.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION AND BELIEF, I CERTIFY THAT AS A RESULT OF A SURVEY MADE ON THE GROUND TO THE NORMAL STANDARD OF CARE OF PROFESSIONAL LAND SURVEYORS PRACTICING IN THE STATE OF MONTANA, I FIND THE LOCATION OF THE FIELD #4-1 AS SHOWN ON THE SUBJOINED DRAWING.

John M. Cicon
JOHN M. CICON 4039 LS

REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=1000'
FIELD #4-1 GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.	10-10-07
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 07-113
	SHEET 1 OF 3

DRAWING NO. 07113ALTA.DWG

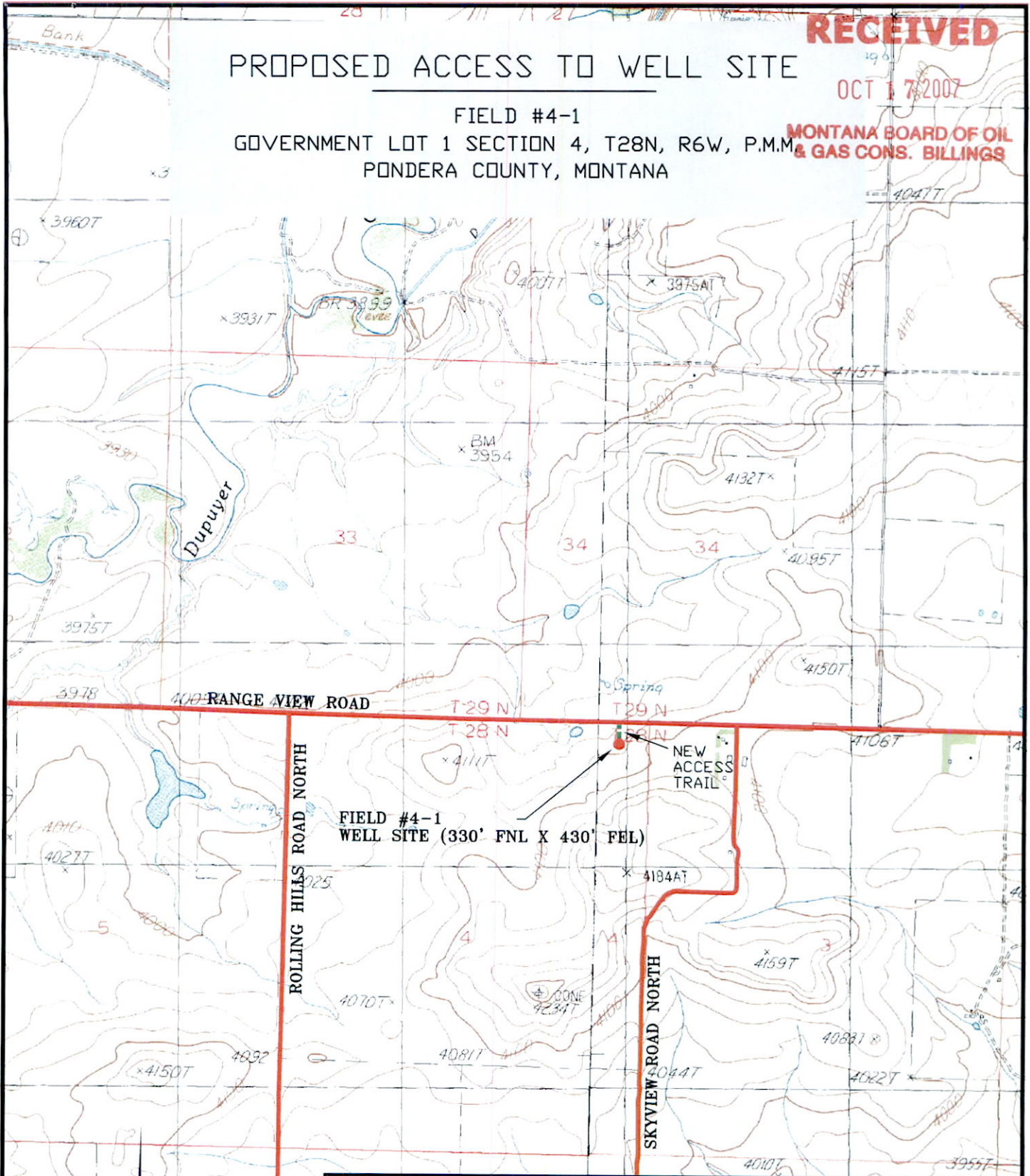
RECEIVED


OCT 17 2007

PROPOSED ACCESS TO WELL SITE

FIELD #4-1
GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.
PONDERA COUNTY, MONTANA

MONTANA BOARD OF OIL & GAS CONS. BILLINGS



REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=2000'
FIELD #4-1 GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.	10-08-07
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 07-113
	PAGE 3 OF 3

DRAWING NO. 07113TOPD.DWG

SCALE 1" = 2000'

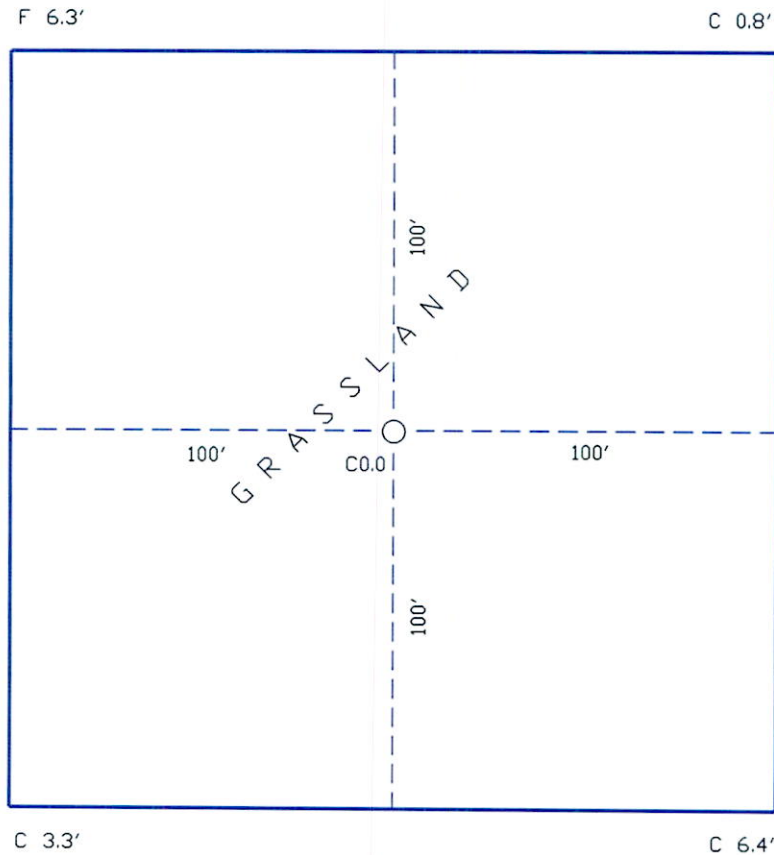
RIG PAD SITE

FIELD #4-1
 GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.
 PONDERA COUNTY, MONTANA

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OCT 17 2007

MONTANA BOARD OF OIL
 & GAS CONS. BILLINGS



GENERAL CUTS AND FILLS OF PROPOSED RIG PAD


LAND USE: GRASSLAND

ELEVATION OF LOCATION BEFORE GRADING: 4070'
 BASIS OF ELEVATIONS: NAVD 29

NOTE:
 CUTS AND FILLS NOTED ARE FOR PURPOSES OF DESCRIBING
 THE GENERAL TOPOGRAPHY OF THE PROPOSED RIG PAD AND
 ARE NOT INTENDED FOR CALCULATION OF DIRTWORK QUANTITIES
 OR OTHER CALCULATIONS.



SCALE 1" = 50'

REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=50'
FIELD #4-1 GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.	10-08-07
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 07-113
	SHEET 2 OF 3

DRAWING NO. 07113CON.DWG

RECEIVED

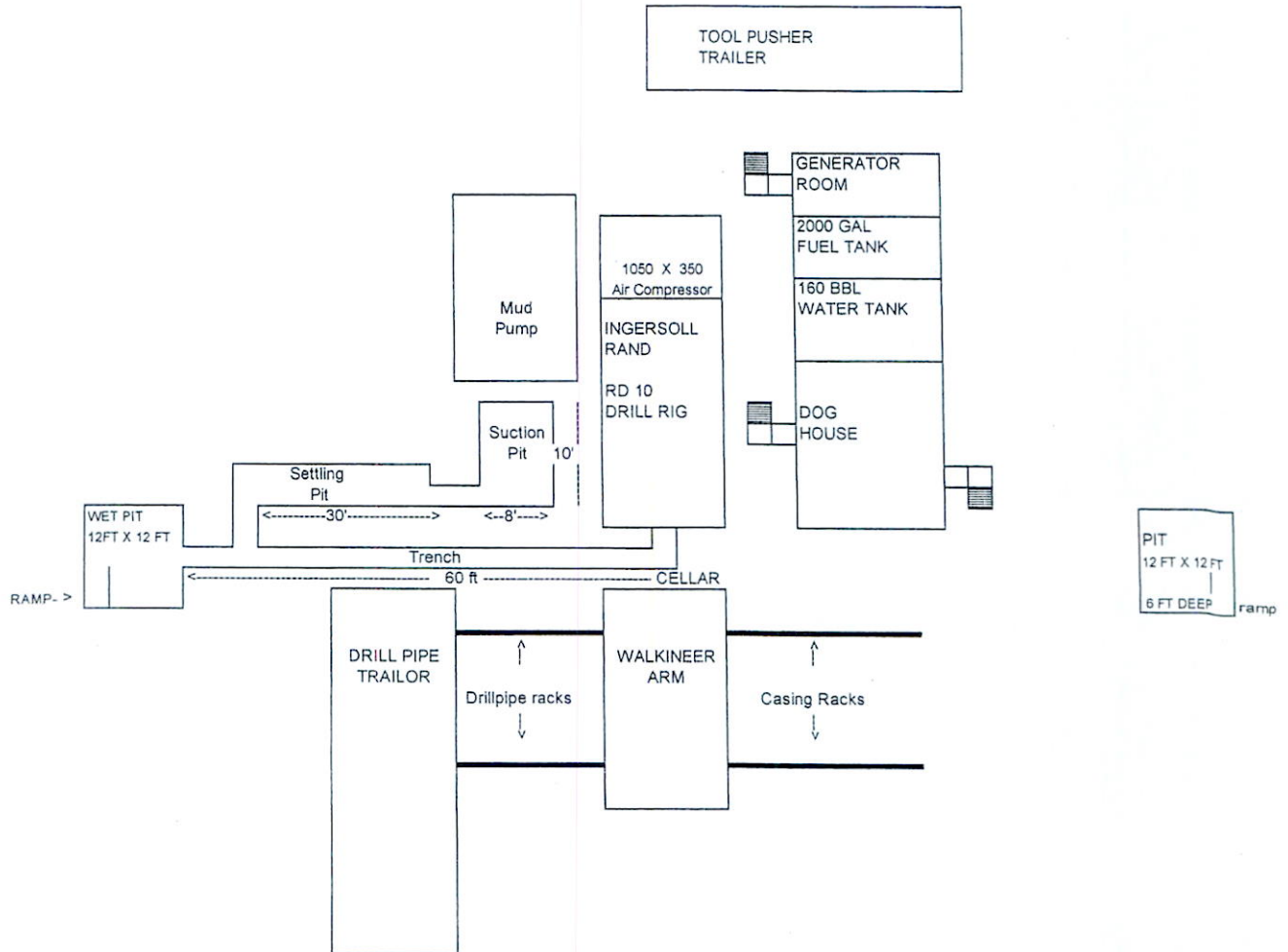
OCT 17 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

LOCATION LAYOUT

Gasco Drilling LLC

P.O. Box 963 Shelby, Mt 59474 Phone (406) 434-3603 Fax (406) 434-3663



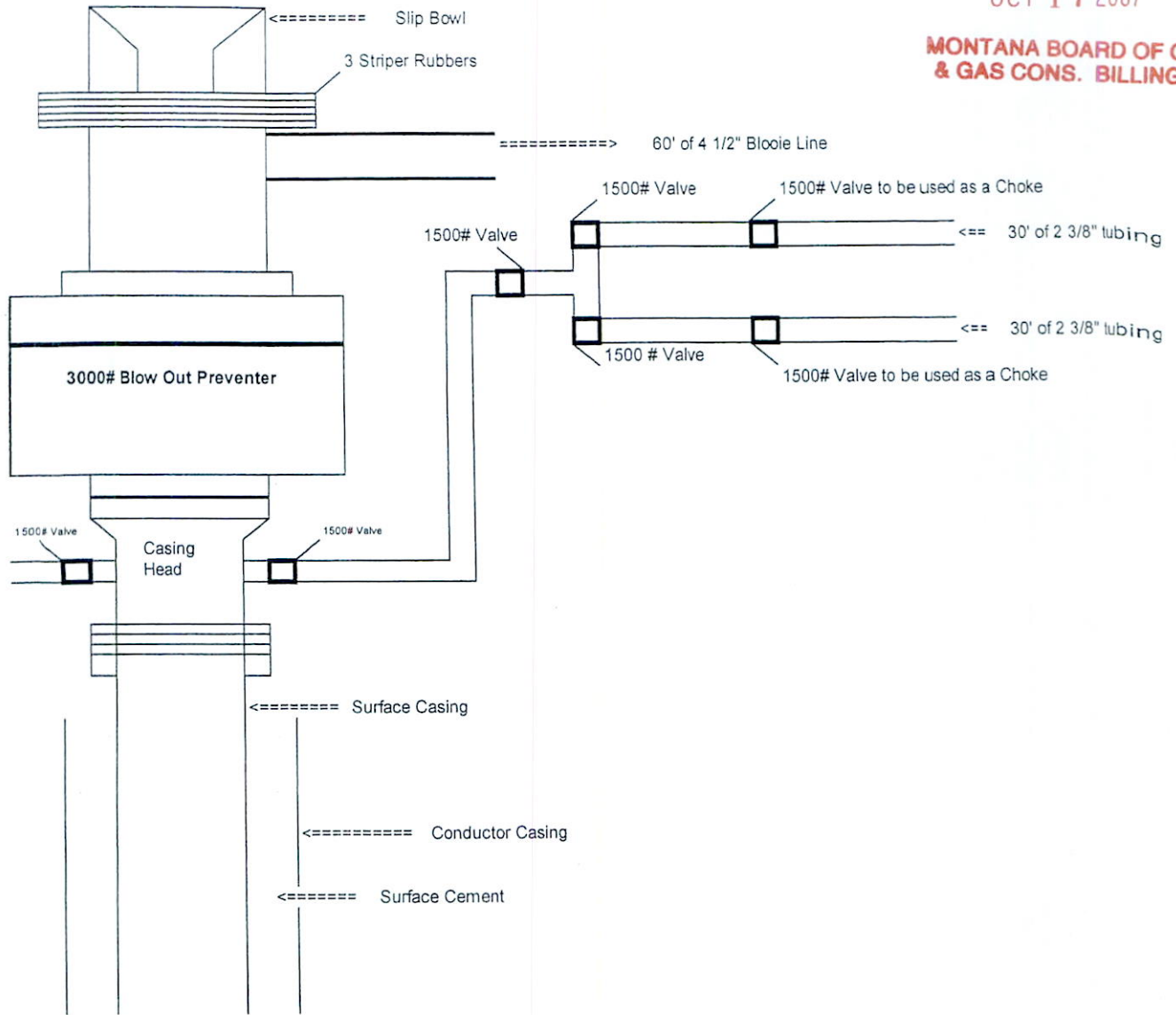
DIMENSIONS OF LOCATION: 200 X 200

SETTLING PIT IS 6' WIDE BY 45' LONG . SUCTION PIT 8' WIDE BY 10' LONG

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OCT 17 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS



BOP STACK

RECEIVED

MAY 28 2004

ALTAMONT OIL & GAS, INC

OCT 17 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

REGAN OFFSHORE INTERNATIONAL, INC.

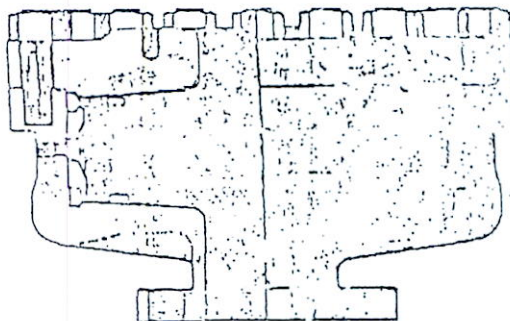
Torrance, Calif.

REGAN BLOWOUT PREVENTERS

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 3000 PSI working pressure.

DESIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
 - b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore. The packer will seal on open hole at full working pressure.
- The dual packer design increases the well-ability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



SPECIFICATIONS

Nominal Size	Test Pressure (PSI)	DIMENSIONS (in.)			Weight (lbs.)	End Flanges (1)	D/R/R (Inch)	Sides (Dotted)
		Outside Diameter	Thru Bore	Overall Height				
6	1500 1000	37 32 1/2	2 1/2 2 1/2	21 1/2 21 1/2	3300 1850	nom. 4 nom. 4	43	None 2" L.P.
8	2000 1000	31 1/2 25 1/2	2 2	21 21 1/2	2625 2625	nom. 4 nom. 4	43	None 2" L.P.

(1) Bottom Gate holes standard for use with either 2820 or 2825 API-600 Gates. Other gate sizes with standard gate end flanges. The Gates normally included for 2000 psi rated design unless otherwise specified.

B.O.P. SPECIFICATIONS

Shelby

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

RECEIVED

JUL - 1 2010

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator ALTAMONT OIL & GAS, INC		Lease Name: JODY FIELD	
Address PO BOX 488		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 4-1
Telephone 406-873-9000	Fax 406-873-2835	Unit Agreement Name:	
Location of well (1/4-1/4 section and footage measurements): NENENE (LOT 1) - SECTION 4-T28N-R6W (330' FNL X 430' FEL)		Field Name or Wildcat: WILDCAT	
API Number: 25 073 21824 State County Well		Well Type (oil, gas, injection, other): OIL	
		Township, Range, and Section: SECTION 4 - T28N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input checked="" type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Moved in and rigged up service rig and pulled tubing and rods. Tripped tubing into hole and spotted ten sacks of cement at 3325' - 3550'. Pulled 4-1/2" casing at 900' and spotted a 25 sack plug at 990' - 1120' and a 25 sack plug at 850' - 980'. Spotted 20 sacks at bottom of surface 70' - 0'. Cleaned location and rigged down on February 24, 2009.

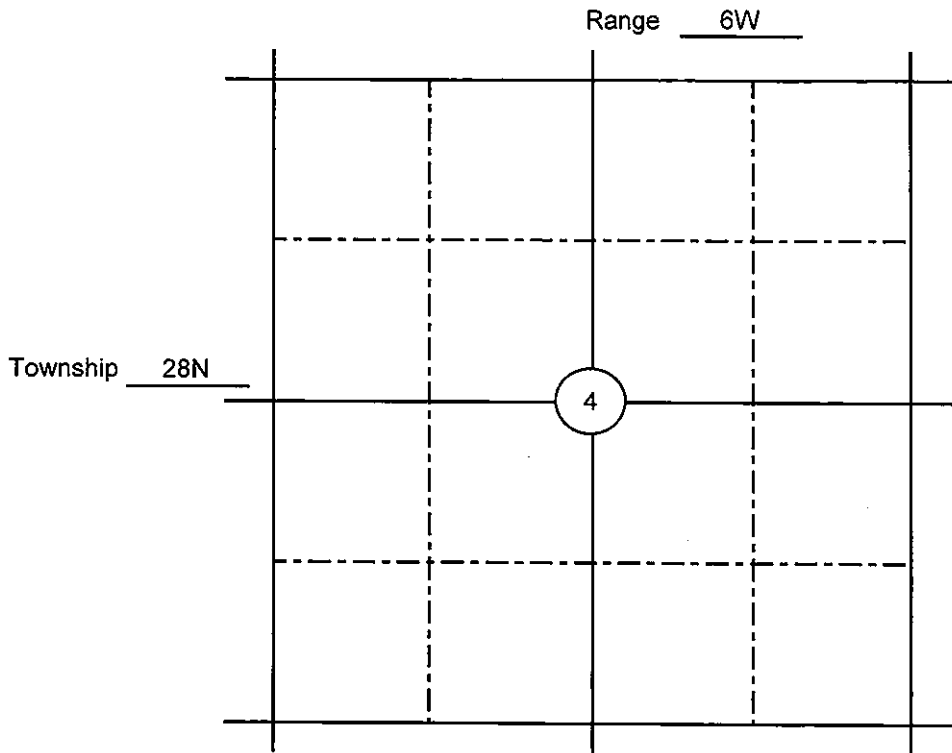
BOARD USE ONLY		The undersigned hereby certifies that the information contained on this application is true and correct.	
Approved <u>AUG 17 2010</u>	Date	6/28/2010	<i>[Signature]</i>
<i>[Signature]</i>	CHIEF FIELD INSPECTOR	Signed (Agent)	
Name	Title	PATRICK M. MONTALBAN, PRESIDENT & CEO	
		Print Name and Title	
		Telephone: 406-873-9000	

LOCATION INSPECTED & APPROVED

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

RECEIVED
 ARM 36.22.307, 601, 605
 1003, 1004, 1011,
 1013, 1103, 1222, 1240
 1301, 1306, 1309, and
 1417
JAN - 7 2009
MONTANA BOARD OF OIL & GAS CONSERVATION BILLINGS

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

SUNDRY NOTICES AND REPORT OF WELLS

Operator ALTAMONT OIL & GAS, INC		Lease Name: JODY FIELDS
Address PO BOX 488		Lease Type (Private/State/Federal): PRIVATE
City CUT BANK State MT Zip Code 59427	Well Number: #4-1	
Telephone Number (406) 873-5580 Fax Number (406) 873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): NENENE (Lot 1) - Section 4-T28N-R6W (330' FNL x 430' FEL)		Field Name or Wildcat: WILDCAT
If directionally or horizontally drilled, show both surface and bottom hole locations)		Section, Township, and Range: SECTION 4-T28N-R6W
API Number: 25 073 21824	Well Type (oil, gas, injection, other): OIL	County: PONDERA
State County Well		

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Chemical Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input checked="" type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:
 Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.
 Move in and rig up service rig, pull tubing and rods. Trip tubing into hole and spot ten sack plug at 3460' - 3463'. Cut off and pull 4-1/2" casing @ 2800'. Spot 25 sack plug at 2800'. Spot 25 sack plug at bottom of surface (895'). Spot 10 sack plug at surface. Clean location and rig down.

BOARD USE ONLY

Approved JAN 27 2009
 Date

Steve P. Saxabe
 Name

CHIEF FIELD INSPECTOR
 Title

The undersigned hereby certifies that the information contained on this application is true and correct:

12/4/2008
 Date

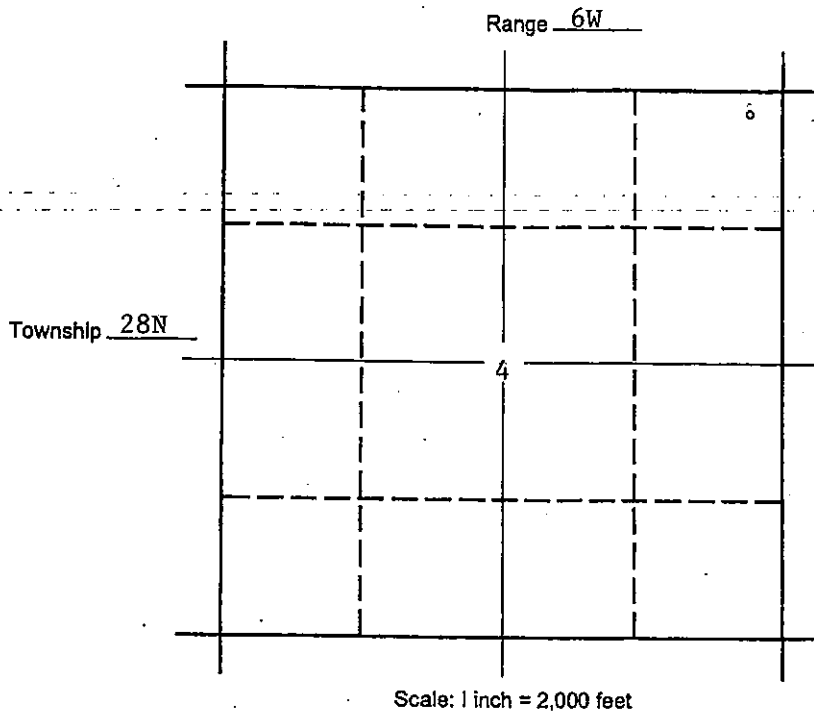
Patrick M. Montalban
 Signed (Agent)

Patrick M. Montalban, President & CEO
 Print Name & Title

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Altamont Oil & Gas, Inc.
Well Name/Number: Jody Field 4-1
Location: NE NE NE, Lot 1 Section 4 T28N R6W
County: Pondera MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 4 to 5 days drilling time.
Unusually deep drilling (high horsepower rig): No, 3450' TD
Possible H2S gas production: Yes
In/near Class I air quality area: No
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

- Air quality permit (AQB review)
- Gas plants/pipelines available for sour gas
- Special equipment/procedures requirements
- Other: _____

Comments: No special concerns – using small rig to drill to 3450' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.
High water table: No
Surface drainage leads to live water: No, no drainages nearby. Some pothole ponds nearby.
Water well contamination: No, closest water well is about ¼ of a mile to the southeast of this location and is only 90' in depth. Surface casing will be drilled with air and/or freshwater mud to 650' and steel surface casing set and cemented to surface from 650'. Closest water well is about
Porous/permeable soils: No, sandy gravelly soils.
Class I stream drainage: No

Mitigation:

- Lined reserve pit
- Adequate surface casing
- Berms/dykes, re-routed drainage
- Closed mud system
- Off-site disposal of solids/liquids (in approved facility)
- Other: _____

Comments: 650' of surface casing will be set and cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems or air to be used for drilling surface hole.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, stream crossings.

High erosion potential: No, small cut, up to 6.4' and small fill, up to 6.3', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, 200'X200' location size required.
Damage to improvements: No, surface use is cultivated fields.
Conflict with existing land use/values: Slight

Mitigation

- Avoid improvements (topographic tolerance)
- Exception location requested
- Stockpile topsoil
- Stream Crossing Permit (other agency review)
- Reclaim unused part of wellsite if productive
- Special construction methods to enhance reclamation
- Other _____

Comments: Access will be over existing county road, Barrett FLDS. A short road will be constructed, about 300' into this location. Drill cuttings will be buried in the unlined cuttings pit. Drilling fluids will be allowed to evaporate in the pits. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence buildings about 1/4 of a mile to the east of this location.

Possibility of H2S: Yes

Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time.

Mitigation:

- Proper BOP equipment
- Topographic sound barriers
- H2S contingency and/or evacuation plan
- Special equipment/procedures requirements
- Other: _____

Comments: No concerns

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: Lake Frances about 7.5 miles to the northeast.

Creation of new access to wildlife habitat: None identified.

Conflict with game range/refuge management: None identified.

Threatened or endangered Species: None identified.

Mitigation:

- Avoidance (topographic tolerance/exception)
- Other agency review (DFWP, federal agencies, DSL)
- Screening/fencing of pits, drillsite
- Other: _____

Comments: Private surface lands. No concerns

Historical/Cultural/Paleontological

(possible concerns)
Proximity to known sites: None identified, private surface.

Mitigation
 avoidance (topographic tolerance, location exception)
 other agency review (SHPO, DSL, federal agencies)
 Other: _____
Comments: Private surface. No concerns.

Social/Economic

(possible concerns)
 Substantial effect on tax base
 Create demand for new governmental services
 Population increase or relocation
Comments: No concerns.

Remarks or Special Concerns for this site

Well is a 3450' Madison Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No significant impacts expected, some short term impacts are expected, but should be able to mitigate these short term impacts.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki 
(title:) Chief Field Inspector
Date: October 18, 2007

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Pondera County water wells
(subject discussed)
October 18, 2007
(date)

If location was inspected before permit approval:
Inspection date: _____
Inspector: _____
Others present during inspection: _____

RECEIVED

OCT 23 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

AFFIDAVIT OF PUBLICATION
STATE OF MONTANA,

County of Lewis & Clark,

Beverly Allison

Being duly sworn, deposes and says:

That she is the principal clerk of the Independent Record a newspaper of general circulation published daily in the City of Helena, in the County of Lewis & Clark, State of Montana, and has charge of the advertisement thereof:

That the Oil & Gas - Altamont

a true copy of which is hereto annexed, was published in said newspaper on the following dates: viz.: October 21, 2007

making in all 1 publication(s).

Beverly G Allison

Subscribed and sworn to before me this 22 day of October, 2007.

Rose Marie Farr

NOTARY PUBLIC for the State of Montana
Printed Name: Rose Marie Farr
Residing at Helena, Montana
My commission expires 8-15-2010

(NOTARIAL SEAL)

BEFORE THE BOARD OF OIL AND GAS
CONSERVATION
OF THE STATE OF MONTANA NOTICE OF
INTENTION TO APPLY
FOR PERMIT TO DRILL
OIL AND GAS WELL

In the Matter of the application of
ALTAMONT OIL & GAS, INC

for a Permit to Drill an oil and gas well.

1. Name and address of Applicant:
ALTAMONT OIL & GAS, INC

PO Box 488

Cut Bank, Montana 59427

2. Legal Description including County and Approximate Footages of Surface Location of Proposed Oil and Gas Well: (and projected bottom-hole location, if a directional or horizontal well)

**NENENE-Section 4-T28N-R6W
(330' FNL x 430' FEL)**

3. Total Depth Proposed to be Drilled:
3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE. OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST:

(1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL, AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation

2535 St. Johns Avenue

Billings MT 59102

Office: (406) 656-0040

Fax: (406) 655-6015

October 21, 2007

Affidavit of Publication

STATE OF MONTANA)

County of Pondera) ss.

John H Lee

John H Lee

being duly sworn upon his oath says: That he is the Publisher of "The independent-Observor," a weekly newspaper of general circulation, published weekly at Conrad, in the County of Pondera, State of Montana.

That the notice hereunto attached was published in the said "Independent-Observor" once each week for... one... successive weeks.

That the first publication of said notice was on the

25th day of October, 2007.

That the last publication of said notice was on the

..... day of n/a, 20.....

That the said notice was published in the regular and entire issue of every said "Independent-Observor" during the period and time of said publication, and in the newspaper proper, and not in a supplement.

John H Lee
Title: Publisher

LEGAL NOTICE

BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA
In the Matter of the application of
) NOTICE OF
) INTENTION TO APPLY
) FOR PERMIT TO DRILL

ALTAMONT OIL & GAS, INC OIL AND GAS WELL for a Permit to Drill an oil and gas well.)

- 1. PO Box 488, Cut Bank, Montana 59427
- 2. NENENE Section 4-T28N-R6W (330' FNL x 430' FEL) Pondera County, Montana
- 3. Total Proposed Depth: 3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE, OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL, AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 658-0040
Fax: (406) 655-6015

Published: October 25, 2007

RECEIVED
OCT 26 2007

ALTAMONT OIL & GAS, INC

Sworn to and subscribed before me this 25th day of October, 2007.

Nancy Zelenka

Nancy Zelenka

Notary Public for the State of Montana, residing at Conrad, Montana. My commission expires

June 1, 2010



RECEIVED

NOV 13 2007

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS

SPUD INFORMATION

WELL NAME: Jody Field 4-1

API #: 25-073-21824

LOCATION: S 4 T 28N R 6W
(Twp-Rge-Sec: $\frac{1}{4}$ $\frac{1}{4}$)

SPUD TIME: 4:30 pm Actual

DATE: 11-5-07

DRILLING COMPANY: Gasco

RIG #: 5

CALLER'S NAME: Bud Postma

COMPANY NAME: Altamont Oil + Gas

OTHER: Bill Halverson talked to Bud Postma + Pat Montalban on 11-7-07 and found out spudded - did not call in -

Pat Montalban got verbal ok to spud from Billings

RECEIVED

Stimulation and Remedial
Cementing Service Report



SERVICE TICKET

9132182

Client Name <i>Altamont Oil + Gas</i>	Well Name <i>Jody Field 4-1</i>	Job Date <i>1/13/07</i>
Client Representative	Location <i>Sec. 4-T28N-R6W</i>	Job Type <i>Acid Sg.</i>

Description	Size (in)	Weight (lb/ft)	Grade	Max. Press. (psi)	True Measured Depth (TMD)		Capacity (bbls)	Packers and Workover Tools	
					Start (ft)	End (ft)		Type	TMD (ft)
Tubing	<i>2 3/8</i>	<i>6.5</i>			<i>KB</i>	<i>3475</i>		<i>Production Packer</i>	
Casing	<i>4 1/2</i>	<i>10.5</i>			<i>KB</i>	<i>3475</i>		<i>Retrievable Packer</i>	
Perforations/OH					<i>3466</i>	<i>3474</i>		<i>Cement Retainer</i>	
								<i>Bridge Plug</i>	
								<i>Selective Injection Packer</i>	

Name	Type	Well Type	Temp (°F)	Pressure (psi)	Height (ft)		Permeability (mD)	Porosity (%)
					Gross	Net		

Wellbore Fluid:		Type:	Density: (lb/gal)	Temp: (°F) Water:		Bulk:	Slurry:
#	Sacks	Volume (bbls)	Density (lb/gal)	Description	% - Additive	% - Additive	% - Additive
		<i>250 gal.</i>		<i>15% HCL</i>			

Event #	Time	Pressure (psi)		Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks
		Tubular	Annular					
								<i>Arrive on Location - Time Requested:</i>
								<i>Safety Meeting Held</i>
								<i>Pressure Test</i>
								<i>See add. Data.</i>
								<i>SAM Card #: Start: Finish:</i>

Personnel & Equipment:		Bin #
Employee	<i>Brian Nelson Red ✓</i>	<i>Miles City</i>
Employee	<i>Ben Berger</i>	<i>221631</i>
Unit #	<i>740021</i>	<i>MATERIAL</i>
Arrive	<i>10:00</i>	<i>TRANSFER</i>
Depart	<i>11:00</i>	<i>NUMBERS</i>

Service Comments:

Stimulation and Cementing
Additional Data



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JAN 25 2008

SERVICE TICKET

9132182

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS

Treatment Report:

Event #	Time	Pressure (psi)		Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks
		Tubular	Annular					
								2 3/8 tub. 4.7# 4.5 cas. 9.5#
								Rig in Sanjel
	11:25	10			1	10	10	F. 11 hole fresh water
	11:37	10			1	6	16	Pump acid down tubing
	11:45	10			1	13.4	29.4	Displace acid to perfs.
								Rig out pull 18 joints Set Packer
	12:36	500			1.3	1.5	1.5	Press. up annulus Rig into tubing
	12:40	1000			1.5	8	8	Pump acid into formation
								Rig out Job complete



Schlumberger Technology Corporation
300 Schlumberger Drive, Sugar Land, TX 77478

Sales Order

Sales Order 1663986	Sales Order Date 12/31/2007	Field Service Order 11911690	Service Date 12/01/2007	Terms Net Payable upon Receipt
-------------------------------	---------------------------------------	--	-----------------------------------	--

Bill To: MOUNTAIN VIEW ENERGY, INC PO Box 200 CUT BANK, MT 59427 US	Correspondence Address: Chinook Depot Dacey McManus Schlumberger REW Hwy #2 West CHINOOK, MT 59523 US <i>Tax Registration Number: 22-1692661</i>
---	--

Customer PO 0	Customer A/E 0	Contract 0
-------------------------	--------------------------	----------------------

Well Name & Number FIELD JODY 4-1	Field CROCKER SP
---	----------------------------

Well Location 4-28N-6W	Offshore Zone/Block
----------------------------------	----------------------------

County/Parish/Borough Pondera	State MT	Price Reference L3-US Land Sept 2008
---	--------------------	--

Customer Job Representative PATRICK MONTALBAN	Customer Office Representative
---	---------------------------------------

Material	Description	Quantity	UOM	Unit Price	Amount
811101053	SET-8 - ND Service Charge SWPT PS	1.00			
6XFLATCHL	Service Flat Charge - Land	1.00	EA	441.96	990.00
6XSERCHGD	Service Depth Charge	3,544.00	FT	0.18	1,250.00
	Gross Price				2,240.00
	Discount/Surcharge				-1,240.00
	Total				1,000.00
61050801	CMTB - Cement Mapping Tool (1-11/16)	1.00			
6XDEPCHG	Depth Charge	3,544.00	FT	0.24	3,189.80
6XOPECHG	Operation Charge	866.00	FT	0.28	900.00
6XGRDEPH-1	GR in Combo-Depth Charge (descent=1)	3,544.00	FT	0.07	956.88
6XGROPE-1	GR in Combo Ope Charge (descent = 1)	866.00	FT	0.07	233.82
6XOPECHMAP	CMT Mapping Mode	866.00	FT	0.36	1,180.44
	Gross Price				6,440.74
	Discount/Surcharge				-4,690.74
	Total				1,750.00
61HW338PJ3406HMX6	HSD-WL-DP 3.38In,3406 PJ,HMX,6epf	1.00			
6XDEPCHG	Depth Charge	3,544.00	FT	0.07	1,189.52
6XCARLEN	Perforating Carrier Length Charge	4.00	FT	50.30	896.00
6XELECDDET	Perforating Electric Detonation	1.00	EA	43.57	194.00
6XSHOTCHG	Charge Per Shot	17.00	EA	88.39	4,420.00
	Gross Price				6,679.52
	Discount/Surcharge				-5,179.51
	Total				1,500.01
81110300	MAST - ND Crane and Mast Charges	1.00			
6XBLUMAST	Daily Charge - Blue Streak Mast	1.00	DAY	350.00	350.00
	Gross Price				350.00
	Total				350.00
81110200PR	PO-RSR Pack Off and Riser	1.00			
6XPRES0-1	Flat Charge per Day, P<1KPsi	1.00	DAY	415.00	830.00
	Gross Price				830.00
	Discount/Surcharge				-415.00
	Total				418.00

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JAN 07 2008

MOUNTAINVIEW ENERGY LTD

Plant: 6627 Chinook Depot

Manager: Dacey McManus (307) 234-8981

Customer: 10020717

31Dec07:1413

Page 1 of 2

Sales Order

Sales Order	Sales Order Date	Field Service Order	Service Date	Terms		
1663988	12/31/2007	11911890	12/01/2007	Net Payable upon Receipt		
Material	Description	Quantity	UOM	Unit Price	Amount	
61110200MC	WHE-MISC Misc Pressure Related Charges	1.00				
6XWHCON	Flat Charge -Wellhead Connection/Trip	1.00	EA	272.50	545.00	
	Gross Price				545.00	
	Discount/Surcharge				-272.50	
	Total				272.50	
61110500CR	CREW - Crew Miscellaneous Charges	1.00				
6XMILECH	Mileage Charges	906.00	MEI		6,350.43	
	Gross Price				6,350.43	
	Discount/Surcharge				-6,350.43	
	Total				0.00	
61110500CR	CREW - Crew Miscellaneous Charges	1.00				
6XMILECH	Mileage Charges	252.00	MEI		856.80	
	Gross Price				856.80	
	Discount/Surcharge				-856.80	
	Total				0.00	
61110105F	BET-FUEL Fuel SurCharge	1.00				
6XFS3	Fuel Surcharge #2 Diesel \$2.50-3.00 3%	1.00	EA	212.49	212.49	
	Gross Price				212.49	
	Total				212.49	
Service total before tax					5,500.00	
Service total					5,500.00	

RECEIVED
 JAN 07 2008
 MOUNTAINVIEW ENERGY LTD

Sun... (A) Inc.
 200, 505 - 2nd Street, SW
 Calgary, Alberta, Canada
 T2P 1N8
 Telephone: (403) 269-1420

JUN 16 2009



SERVICE TICKET
 9139027

This service ticket is not an invoice; pricing is subject to review and change without notice.

Client Name Altament Oil & Gas			Well Name Field 4-1A			Job Date 10 June 09		
Address Box 482			Location Sec 4 T88N R6W			Service Point Chinook		
City Cut Bank			Client Representative Joe Montalban			Pricing Area A		State MT
Province/State MT	Postal/Zip Code 59427	Job Type Acid	State MT	County Pondera	AFE/PO #			

JUN 16 2009

District	Service, Equipment & Material Type	Code	Quantity	Unit Price	Amount
	Travel Charge				
	Service Charge				
	AS Per Bid				
A2	Sanjel Pumping Charge (includes Travel, 500 gal Acid, delivery & Pumping)		1 ea	3800	3800
A2	Pumping Time	1392	min 1 hr	450 ⁰⁰ /hr	N/C
A2	Standby Time Pump Unit	1390	3 hr	285 ⁰⁰ /hr	
			1 hr N/C	2 hr @ 285	570 ⁰⁰

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JUL - 6 2009

MONTANA BOARD OF OIL & GAS COMB. BILLING

<p>Not Completion work for Altament Field 4-1A</p>	FIELD ESTIMATE		4370 ⁰⁰
	<input type="checkbox"/> Cementing - Prim.	<input checked="" type="checkbox"/> Cementing - Rem.	
	<input type="checkbox"/> Coiled Tubing	<input type="checkbox"/> Nitrogen	
	<input type="checkbox"/> Stimulation	<input type="checkbox"/> Fracturing	
	<input type="checkbox"/> MPCTU	<input type="checkbox"/> Other	
<p>This space is reserved for the Client Coding Stamp.</p>		Sales 1	Sales 2

Comments: Excellent Job! Excellent Hand. Very Good Job!

This signature confirms that I have read and comply with the terms and conditions as noted on the reverse of this document.

x

**Stimulation and Remedial
Cementing Service Report**



SERVICE TICKET

9139027

Client Name <u>Altament Oil & Gas</u>	Well Name <u>Fields 4-1a</u>	Job Date <u>10 June 09</u>
Client Representative <u>Joe Mantalban</u>	Location <u>Sec 4 T23N R26W</u>	Job Type <u>Acid Spore</u>

Description	Size (in)	Weight (lb/ft)	Grade	Max. Press. (psi)	True Measured Depth (TMD)		Capacity (bbls)	Packers and Workover Tools	
					Start (ft)	End (ft)		Type	TMD (ft)
Tubing	2 3/8	4.7	J55		0	3432		Production Packer	
Casing	4 1/2				0	3442		Retrievable Packer	2940
Perforations/OH	6 1/4				3442	3460		Cement Retainer	
								Bridge Plug	
								Selective Injection Packer	

Formation Data:		Name <u>Madison</u>	Type	Well Type <u>Oil</u>	Temp (°F)	Pressure (psi)	Height (ft) Gross Net		Permeability (mD)	Porosity (%)
-----------------	--	------------------------	------	-------------------------	-----------	----------------	--------------------------	--	-------------------	--------------

Fluid and Cement Data:				Wellbore Fluid:	Type:	Density: (lb/gal)	Temp: (°F) Water:	Bulk:	Slurry:
#	Sacks	Volume (bbls)	Density (lb/gal)	Description	% - Additive	% - Additive	% - Additive	% - Additive	% - Additive
		12	8.4	15% HCl	1.5 gal A1-4	2 gal ASA-3	1 gal D-2	25# ISA-1	

Fluid Compatibility Testing:

Acid Titration: _____ (% HCl Equivalent)

Stability: Pass: Fail: N/A Mesh Size: _____ Time at BHT: _____ min.

Iron Control (Live Acid): Pass: Fail: N/A Live Acid: Pass: Fail: N/A

Emulsion Break Time: Live: _____ min. Spent Acid: Pass: Fail: N/A

Testing Witnessed by: _____ (Oil Company Representative) Signature: _____

Treatment Report:									
Event #	Time	Pressure (psi)		Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks	
		Tubular	Annular						
1	0800							Arrive on Location - Time Requested: 0900	
2	1115							Safety Meeting Held	
3	1140	1750						Pressure Test 2000 PSI	
4	1000	500		3	49			Hole fill	
5	1144	250		2	12	61		Pump HCl	
6	1150	250		2	11	72		Spot HCl	
7	1230	1300		0.35	9.5	81.5	9.5	DSP HCl into formation	
SAM Card #:								Start: _____	Finish: _____

Personnel & Equipment:					
Employee	<u>Math Paulsen</u>	<u>Broncha Melchior</u>			Bin # <u>Mile City</u>
Employee	<u>Deek Roseliep</u>	<u>Jeremy Becker</u>			Bin # _____
Unit #	<u>740061</u>	<u>746901</u>	<u>446901</u>		<u>1116</u> MATERIAL
Arrive	<u>0800</u>	<u>0800</u>			TRANSFER
Depart	<u>1700</u>	<u>1300</u>			NUMBERS

Service Comments: Final shut in PSI 1150# @ 5 min 450# - @ 10 min 225# - @ 15 min 175#

* Detailed protocols for Sanjel's compatibility tests are available on request.

ALTAMONT OIL & GAS, INC

PO BOX 488

CUT BANK, MONTANA 59427

FACSIMILE TRANSMITTAL SHEET

TO: Steve Sasaki	FROM: Carla Barringer
COMPANY: Board of Oil & Gas Conservation	DATE: TUESDAY, FEBRUARY 17, 2009
FAX NUMBER: (406) 655-6015	TOTAL NO. OF PAGES INCLUDING COVER: 2
PHONE NUMBER:	SENDER'S PHONE NUMBER: (406) 873-5580
Re: Schlumberger Ticket Perforating of Jody Fields #4-1	YOUR REFERENCE NUMBER: (406) 873-2835

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Hello Steve:

Following is the ticket from Schlumberger for the Jody Fields #4-1. Maybe you can tell that they perforated and what the interval was?

Thank you,

ALTAMONT OIL & GAS, INC

Carla Barringer

Date 1-23-08 (406)652-4400

COMPETITION
WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 13206 LEASE/LOCATION Jody Field #4-1

STATE Montana COUNTY Pondera LEGAL NE NE 4-28N-6W

ELEVATION 4070' KB ELEVATION 4075' DRILLER TD 3545 FIELD W. Jody

COMPETITION PERSONNEL J Seifert, J Brown, A Brown UNIT # 1151/Cut Bank Mt

COMPANY Altamont Oil & Gas Inc BY [Signature]

ADDRESS _____

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
		Casing	Lb/Ft	From	To
4501 SERVICE CHARGE: <u>Truck</u>		7"	17#	Surface	894'
4502 SERVICE CHARGE:		4.5"	9.5#	Surface	3545
Mileage Logging unit @ _____ per mile					
Pickup @ _____ per mile					
Mast/crane @ _____ per mile					

Service 4600 Set Plugwell CIBP for 4 1/2 hrs
 Depth 3463'
 Oper. min operation chg J
 Service 4602 Plug Well 3.50" CIBP
 Depth 3450'
 Oper. 17 shots
 Service 4645 Gun Barrel 4

Fluid 1100/850 Level (surf) _____
 Competition measurements are from (check One):
 KB GL _____ Prev. Logs _____
 CWS TD NR Driller TD 3545
 Plug model Plugwell Size 3.50" Depth 3463'
 Packer 110PP Size _____ Depth _____

Service	Depth	Oper.	PERFORATIONS			
			Intervals	SPF	Total #	
			<u>3446 - 3450</u>	<u>(4)</u>	<u>4</u>	<u>17</u>

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FEB 6 2008

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

TOTAL PERFORATIONS: 17 total 19 gun
perforated

AFE #: APIA 25-073-21824

Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

4600	Power Charge for CIBP	
4502	Pressure Control/Pack Off	
	Subtotal	

	MATERIALS Discount	
	Subtotal	
4504	Mileage 80 miles	
4518	F.H.S Charge	
	Field total	

Pat. Completion lists
Altamont / Jody Field #4-1
Set 4 1/2" Body plug
Perforate (3446' - 3450')

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Witnessed by: Patrick Montalman
 Competition WS Starbuck Seifert
 (Please Print)

Date 2-JAN-2008 (406)652-4400



7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 12145 LEASE/LOCATION JODY FIELD #4-1

STATE MONTANA COUNTY PONDERA LEGAL NE. NE 4-28N-6W

ELEVATION 4070' KB ELEVATION 4075' DRILLER TD 3545 FIELD WILACAT

COMPETITION PERSONNEL J. Brown / S. Seifert / A. Brown UNIT # 1115 / CURBANK, MT

COMPANY ALTA MOUNT OIL & GAS, INC BY [Signature]

ADDRESS _____
Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM		AMOUNT	INFORMATION			
<u>4501</u>	SERVICE CHARGE: <u>TRUCK</u>		Casing	Lb/Ft	From	To
	SERVICE CHARGE:		<u>7"</u>	<u>17#</u>	<u>SURFACE</u>	
	Mileage Logging unit @ _____ per mile		<u>4.5"</u>	<u>9.5#</u>	<u>SURFACE</u>	<u>3545</u>
	Pickup @ _____ per mile					
	Mast/crane @ _____ per mile					

Service	<u>HLSD</u>	<u>PERFORATE w/ 3' 8" HP SLICKER</u>
Depth		<u>3474'</u>
Oper.		<u>MIN SHOT CHARGE</u>
Service	<u>4645</u>	<u>Gun Barrel log 4'</u>
Depth		
Oper.		
Service		
Depth		
Oper.		
Service		
Depth		
Oper.		
Service		
Depth		
Oper.		
Service		
Depth		
Oper.		

Fluid oil/water Level (surf) _____
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 CWS TD 3544 Driller TD 3545
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

PERFORATIONS				
Intervals	SPF	Total #		
<u>3470-3474 (4')</u>	<u>4</u>	<u>17</u>		

TOTAL PERFORATIONS: 17 TITAN PROGRAM "PROSPECTOR"
 AFE #: _____
API: 25-073-21824
 Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL	
<u>4592</u>	<u>PRESSURE CONTROL LUBRICATOR</u>
	<u>SUBTOTAL:</u>
	<u>Discount</u>
	<u>SUBTOTAL</u>
MATERIALS	
<u>4518</u>	<u>ETHES ch</u>
<u>4524</u>	<u>MILEAGE: TRK. 80</u>
	<u>FIELD TOTAL:</u>

In Completion logs for
Altamont Field 41
Referto Malina
(3470-3474)

RECEIVED

Witnessed by: PATRICK MONTALBAN
 Competition WS: JOHN BROWN JAN - 9 2008
 (Please Print) **MONTANA BOARD OF OIL & GAS CONS. BILLINGS**

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Original - Please pay from this invoice - Due 30 days from above date.

LIQUID GOLD WELL SERVICE, INC.

RECEIVED

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

MAR - 6 2009

P.O. Box 757
 Cut Bank, MT 59427

MONTANA BOARD OF OIL
 & GAS CONS. BILLINGS

Invoice # 2347

Company Allamount
 Address _____
 City/State _____
 Lease Sady Field Well #4-1
 Long String _____ Surface Pipe _____ P & A X

Date 2-19-09
 Sec. 4 Twn. 28N Rng. 6W
 County Yondera
 Field Wildcat
 Camera _____

API 25-073-21824

Hole Size _____	Casing <u>4 1/2"</u>	Plug #1 <u>3450'</u>	to <u>3325'</u>	Sacs <u>10 ex</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing <u>2 3/4"</u>	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>3463</u> PBTD _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP _____	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Traveled to location, rig up, takes on water, fill hole with 25 bbls, pump 10 ex cement @ 3% cacl to 1/4" per ex cellophane, displace cement with 12.5 bbls water, wash up and rig down

Quantity	Description
<u>01</u>	Cement Pump Truck
<u>40</u>	Pump Truck Mileage
<u>01</u>	Bulk Cement Truck
<u>40</u>	Bulk Truck Mileage
<u>10 ex</u>	Bulk Cement
	Cellophane
	Polymer
<u>30 #</u>	CaCl
<u>01</u>	Pick Up Charge <u>x 40 miles</u>
<u>01</u>	<u>water truck x 6 hrs</u>
<u>01</u>	<u>fuel surcharges 6% (Pt, Wt, BT)</u>

Cementer

Todd Mohrman, Butch, Leonard

Agent of Owner or Contractor

Date _____

LIQUID GOLD WELL SERVICE, INC.

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

RECEIVED

P.O. Box 757
 Cut Bank, MT 59427

MAR - 6 2009

C.W.O. # **2657**

Company Altamont Date 2-24-09
 Address _____ Sec. 4 Twn. 28N Rng. 6W
 City/State _____ County Poplar
 Lease Fields Well #4-1 Field wildcat
 Long String _____ Surface Pipe _____ P&A X API 25-073-21824

Perfs #1	Casing <u>4 1/2" x 6 1/4"</u>	Plug #1	980 <u>980</u> ' to <u>850</u> '	Sacs	<u>25 SX</u>
Perfs #2	Casing <u>4 1/2" x 6 1/4"</u>	Plug #2	<u>1120</u> ' to <u>990</u> '	Sacs	<u>25 SX</u>
Tubing	Casing <u>7"</u>	Plug #3	<u>70</u> ' to <u>0</u> '	Sacs	<u>20 SX</u>
TD	Casing _____	Plug #4	_____ to _____	Sacs	_____
ECP	Casing _____	Plug #5	_____ to _____	Sacs	_____

Comments: Traveled to location, rig up, took 100 lbs on water, tried to
rip and pull casing at 1700' couldn't get circulation or pull casing,
try to rip and pull from 900', casing came free thought to be from
900', pumped 25 SX cement and displaced with 13,85 bbls, trip casing out
of hole and found out was pulled casing from 1700', trip taking back
into 1120', pump 25 SX cement, top out of hole, pump 20 SX cement
from surface 70 to 0, wash up and rig down.

Quantity	Description	Unit	Total
01	Cement Pump Truck		
40	Pump Truck Mileage		
01	Bulk Cement Truck		
40	Bulk Truck Mileage <u>x 3.29 hr</u>		
70	Bulk Cement		
	Cellophane		
	Polymer		
141 #	CaCl		
01	Pick Up Charge <u>x 40 miles</u>		
01	Fuel surcharge <u>3%</u>		

Todd Meland, Bretch, Leonard, Bill _____ Date _____
 Cementer
 _____ Date _____
 Agent of Owner or Contractor

LIQUID GOLD WELL SERVICE, INC.

RECEIVED

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

P.O. Box 757
 Cut Bank, MT 59427

DEC 12 2007

MONTANA BOARD OF OIL
 & GAS CONS. BILLINGS

Invoice # **1743**

Company Altamont oil + Gas, inc.
 Address _____
 City/State _____
 Lease _____ Well Jody Feild 4-1
 Long String _____ Surface Pipe P & A _____ Camera _____

Date 11-7-07
 Sec. 4 Twn. 28N Rng. 6W
 County Pendora ND NE/NE
 Field _____

35.11 Disp 853 Baffle 1:40 PM Plus clean -

Hole Size _____	Casing <u>7" X 8 3/4</u>	Plug #1 <u>896.91'</u>	to <u>0'</u>	Sacs <u>180 SX</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing _____	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>897'</u> PBTB _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP _____	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Move to, Rig up. Pump 50 Bbls polymer ahead. Pump
180 SX 3 1/2" Col 1 1/2" Col. Prop Plug Displace w/ 35.11 Bbls
Shut in. Wash up. Rig down.
(7.5 Bbls Returns -)

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>50</u>	Pump Truck Mileage			
<u>01</u>	Bulk Cement Truck			
<u>50</u>	Bulk Truck Mileage			
<u>180</u>	Bulk Cement			
<u>90 #</u>	Calophane			
<u>5901</u>	Polymer			
<u>50</u>	Pick Up Charge			
<u>500 #</u>	<u>COCL</u>			
<u>15%</u>	<u>Exc / Surcharge on pump + Bulk</u>			

Cementer Shane Elms Bill, John Date 11-7-07
 Agent of Owner or Contractor
[Signature] Date _____

LIQUID GOLD WELL SERVICE, INC.

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

RECEIVED

P.O. Box 757
 Cut Bank, MT 59427

DEC 12 2007

Invoice # 1952

Company AltaMont

MONTANA BOARD OF OIL
 & GAS CONS. BILLINGS

Date 11-18-07

Address _____

Sec. 4 Twn. 28N Rng. (66)

City/State _____

County pondera

Lease Soly Field Well 4-1

Field wild cat

Long String X Surface Pipe _____ P & A _____ Camera _____

API # 25-073-21819

Hole Size <u>6 1/4"</u>	Casing <u>4 1/2"</u>	Plug #1 <u>3546'</u>	to <u>2814</u>	Sacs <u>100 SX</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing _____	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>3545'</u> PBDT	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP _____	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Travel to location, take on water, pump 10 bbls fresh water ahead, pump 100 SX cement, displace with 57.8 bbls. water, plug down @ 6100 wash up and rig down.

Job location costs

AltaMont / Soly Field 4-1

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>35</u>	Pump Truck Mileage <u>X 35 miles</u>			
<u>01</u>	Bulk Cement Truck			
<u>35</u>	Bulk Truck Mileage <u>X 35 miles</u>			
<u>100 SX</u>	Bulk Cement			
<u>25 #</u>	Cellophane			
<u>01</u>	Polymer <u>Float shoe</u> (Cement 4 1/2")			
<u>05</u>	4 1/2 <u>centralizers</u>			
<u>0</u>	Pick Up Charge <u>X 35 miles</u>			
<u>950 #</u>	<u>NaCl (salt)</u>			
<u>950 #</u>	<u>Mica</u>			
	<u>Fuel Surcharge 15% (P+BT)</u>			

Cementer

Todd Johnson
 Agent of Owner or Contractor

Date 11-18-07

Date _____

DRILLSTEM TESTS

DST#1:

3,422-33' in Madison (Sun River Dolomite). GTS during initial shut-in, final flow period. Gas flowed @ rate of 9-5 MCFD, decreasing at end.

Preflow:	15 min.
Initial shut-in:	33 min.
Final flow:	60 min.
Final shut-in	95 min.

<u>PRESSURES:</u>	First Period	3,402' Top	3,429' Bottom	
		IHP	1635.3	1648.2
		IFP	107.2	723.6
		FFP	111.5	455.4
		SIP	1061.8	1075.0
	Second Period	IFP	151.9	440.5
		FFP	297.6	730.7
		FSI	1063.6	1075.9
		FHP	1606.1	1617.6

RECOVERY:

Total fluid - 950' - 60' of ammonia cut oil and 890' of gas cut oil.

DST #2:

3,422-33' in Madison (Sun River Dolomite). GTS in 6 min. Flowed @ rate of 21-34 MCFD. Oil to surface during final flow period. Pipe partially unloaded during surge in final flow.

Preflow:	60 min.
Initial shut-in:	60 min.
Final flow:	132 min.
Final shut-in:	45 min.

<u>PRESSURES:</u>	First Period	3,402' Top	3,429' Bottom	
		IHP	1673.7	1694.6
		IFP	75.0	101.2
		FFP	270.1	276.2
		SIP	1061.8	1078.2
	Second Period	IFP	318.6	343.9
		FFP	241.1	262.4
		FSI	1061.0	1074.7
		FHP	1673.7	1694.6

RECOVERY:

Total fluid - 1,010' - 890' of highly gas cut oil and 120' of gas cut water.

CORE DATA

One core was cut in Mississippian Madison (Sun River dolomite) from 3,430-35'. There was no recovery. Penetration rate for the core was 1 to 5 minutes/ft.

DAILY ACTIVITY SUMMARY

(Calendar Days)

- 3/8/82 Moved in and rigged up General Well Service Rig #21. Drilled rat hole.
- 3/9/82 Spudded at 1:30 a.m. Drilled 12-1/4" surface hole to 180'. Set 8-5/8" surface casing with 175 sx. cement plus 3% CaCl at 113'.
- 3/10/82 Nipping up. Tested BOP's to 900#. Held for 15 minutes. Rigged up air equipment.
- 3/11/82 Blew hole dry and drilled with air to 415'. Changed over to mud and water and drilled to 747'.
- 3/12/82 Drilled 747-1,373'. Had tight hole at 778'.
- 3/13/82 Drilled 1,373-1,780'. Tripped for new bit at 1,560'.
- 3/14/82 Drilled 1,780-2,003'. Tripped for new bit at 1,928'.
- 3/15/82 Drilled 2,003-104'.
- 3/16/82 Drilled 2,104-360'.
- 3/17/82 Drilled 2,360-782'.
- 3/18/82 Drilled 2,782-968'.
- 3/19/82 Drilled 2,968-3,065'. Tripped for new bit at 3,009'. Tight hole.
- 3/20/82 Drilled 3,065-254'.
- 3/21/82 Drilled 3,254-419'.
- 3/22/82 Drilled to 3,433'. Conditioned mud. Made short trip to pull out for DST #1.
- 3/23/82 Completed DST #1. Tripped in and conditioned hole for Core #1. Cut core and tripped out.
- 3/24/82 Tripped out with Core #1. Tripped in for DST #2.
- 3/25/82 Ran DST #2. Tripped in. Drilled to 3,482' and conditioned hole.
- 3/26/82 Tripped out to run Schlumberger logs.
- 3/27/82 Set 5-1/2" casing at 3,480'. Tagged plug with 2-7/8" tubing at 3,455'.
- 3/28/82 Rig was released at 10:00 a.m.

L I T H O L O G Y

Sample descriptions begin at 170' in Cretaceous Montana Group beds. Drilling time lag was used to adjust lithology. Formation tops were determined from electrical logs. Samples were examined both wet and dry and described wet. For lithology descriptions, see the enclosed lithologic log.

073-21561

MAX'S TESTING

P. O. BOX 818

CUT BARE, MONTANA 59427



CUSTOMER Occidental Exploration & Production Co.
 WELL NO. #1-34 Field
 WELL LOCATION Sec.34-T29N-R6W
 INTERVAL 3420-3435 T.D. 3435
 COUNTY Pondera

DATE 25-03-82
 KB ELV. 4045
 GR ELV. 4035
 Ft NET PAY
 STATE Montana

TICKET # 863 DST.# Two
 FORMATION Madison
 TYPE OF TEST Bottom Hole

Occidental Exploration & Production Co.
 #1-34
 863
 Two
 3420-3435

RECORDER DATA ALL MEASUREMENTS ARE IMPERIAL TIME DATA [CONVENTIONAL]

PF 60	REC.#	10981	10982
SI 60	DEPTH	3402	3431
SF 132	CLOCK	21132	21134
FS 45	BLANKED OFF	No	Yes
		PSI	PSI
A. Init. Hyd.		1670.2	1673.7
B. First Flow		75.9	75.0
Bl. Final Flow		273.6	270.1
C. In Shut-in		1065.3	1061.8
D. Init. Flow		321.3	318.6
E. Final Flow		247.2	241.1
F. Fi Shut-in		1065.3	1061.0
G. Final Hrd.		1670.2	1673.7
		Field	Computed

PF fr.	08:58 to	09:58	HR.
IS fr.	09:58 to	10:58	HR.
SF fr.	10:58 to	13:10	HR.
FS fr.	13:10 to	13:55	HR.
TIME STARTED		12:05	HR.
TIME ON BTM		08:45	HR.
TIME OPEN		08:58	HR.
TIME PULLED		13:55	HR.
TIME OUT		17:30	HR.

MUD DATA

MUD TYPE	Gel
MUD WEIGHT	9.3
VISCOSITY	75
WATER LOSS	5.4
FILTER CAKE	2/32
MUD DROP	-

RECOVERY

TOTAL FLUID 1010 ft of 505 ft in D.C. and 505 ft in D.P.
 890 ft of Highly gas cut with trace of
 - ft of mud Oil after unloading.
 120 ft of Gas cut water
 - ft of -

SAMPLER DATA

SURFACE PRESSURE	245
CUBIC FT. GAS	.6
C. C. OIL	1050
C. C. Mud	300
TOTAL C.C. LIQUID	1350
GRAVITY @ 60°F	33.4
GAS/OIL RATIO	90.7

FLUID	RESISTIVITY	TEMP	Cl. CONTENT
MUD PIT	2.40	52	2900
MUD PIT FILTRATE	1.95	52	3700
RECOVERED WATER	-	-	-
RECOVERED MUD	-	-	-
RECOVERED MUD FILTRATE	-	-	-

GENERAL DATA

SURFACE CHOKE	1/4-2-1/4
BTM. CHOKE	.75
HOLE SIZE	Nil
AMT. OF FILL	Nil
BTM.H. TEMP	77
POROSITY I	-
HOLE COND	Good
CUSHION AMT	Nil
CUSHION TYPE	Nil
BACK PRESS. VAL.	Nil
TESTER	DeKaye
WITNESS	Warner
CONTRACTOR	General Well Service
RIG #	#21 co/26

REMARKS:

Opened Tool at 08.58 hrs with strong blow off bottom of 5 gallon bucket of water. Turned to 2 inch line. Gas to surface at 09.04 hrs. Turned to 1/4 inch orifice-1 1/2 lbs (21 MCF) Peaking at 3 lbs (24.0 MCF) then decreasing to 2 1/2 pounds.

Closed Tool at 09.58 hrs.

Opened Tool at 10.58 hrs with strong blow-turned to 1/4 inch orifice-(1 1/2 lbs-21 MCF) Peaked at 10 lbs (34.0 MCF) Sursing-Sursed for remainder of flow period. Mud and Oil to surface at 12.25 hrs.

Closed Tool at 13.10 hrs.

Pulled off bottom at 13.55 hrs.

TEST SUCCESSFUL

#2

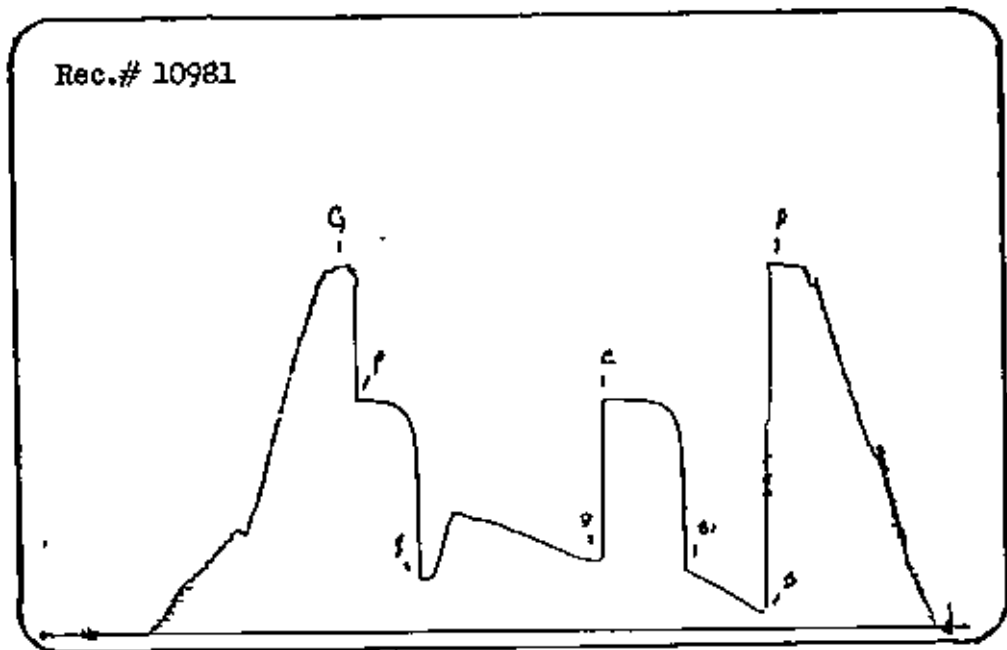
NAME: Field #1-34 DATE: 25-03-82
 LOCATION: Sec.34-T29N-R6W TK#: 863 DST#: Two

TIME	CHOKE SIZE in.	SURFACE PRESSURE lbs.	FLOW RATE MCF/D	LIQUID	REMARKS
09:04 00:00					Gas to surface.
09:14 00:00	1/4	2 1/2	23.0	None	Increasing slightly.
09:24 00:00	1/4	2 1/2	23.0	None	As above.
09:34 00:00	1/4	3	24.0	None	Peaked.
09:44 00:00	1/4	2 1/2	23.0	None	Holding steady.
09:54 00:00	1/4	2 1/2	23.0	None	As above
09:58 00:00					Closed tool
10:58 00:00					Open tool
11:08 00:00	1/4	2 1/2	23.0	None	Starting to surge.
11:18 00:00	1/4	2.0	22.0	None	As above
11:28 00:00	1/4	1	21.0	None	As above
11:38 00:00	1/4	5 1/2	27.0	None	Surging at moderate rate.
11:48 00:00	1/4	6 1/2	29.0	None	As above
11:58 00:00	1/4	7 1/2	30.0	None	Surging between 7 1/2 & 1
12:08 00:00	1/4	1	21.0	None	As above
12:18 00:00	1/4	1/2			
12:25 00:00					Mud & Oil to surface—took out chokes unloading hole—very highly gas cut.
13:10 00:00					Closed tool
13:55					Pulled off bottom.

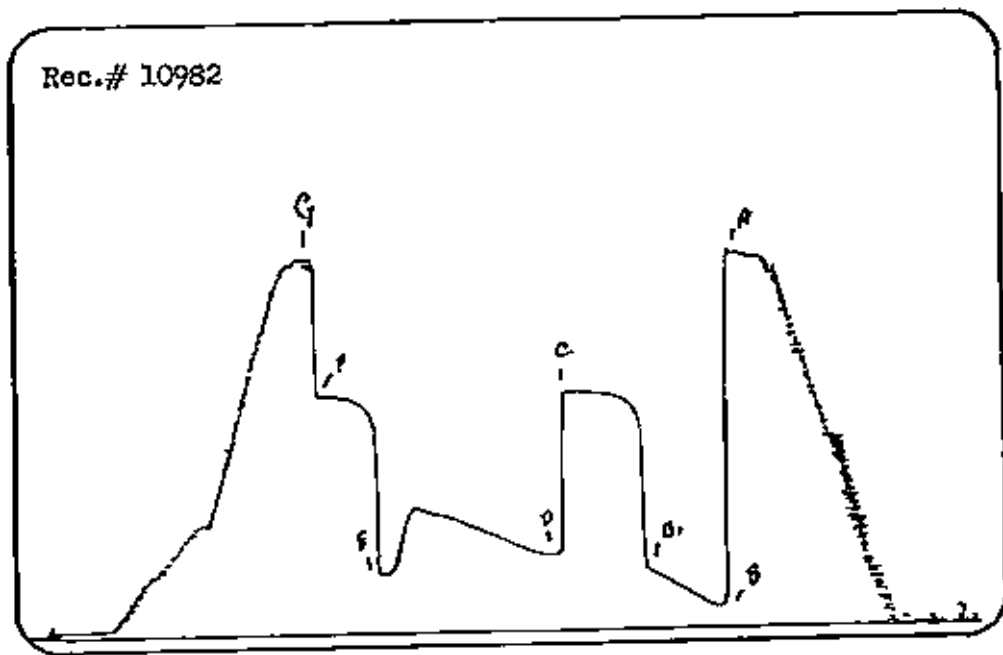
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Field # 1-34 Sec.34-T29N-R6W T.# 863 DST.# 2

Rec.# 10981



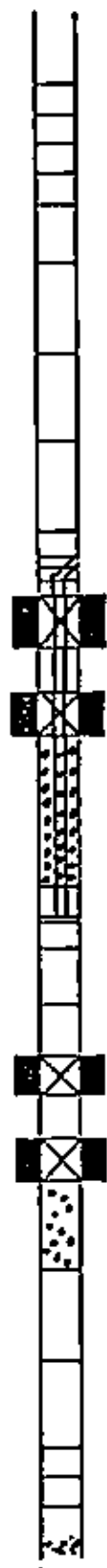
Rec.# 10982



2

NAME: Field #1-34 DATE: 25-03-82
 LOCATION: Sec.34-T29N-R6W TK#: 863 DST#: Two

	O.D. INCHES	I.D. INCHES	LENGTH FEET	DEPTH FEET
Drill Pipe	3.50	2.76	2881.00	
Reverse sub	5.75	2.50	1.00	
Water Cushion Valve				
Drill Collars	2.50	2.25	505.00	
Double Pin	6.00	2.25	.90	
Sampler	5.00	.75	81.00	3395.00
Shut-in Tool				
Hydraulic Valve	5.00	.75	5.00	3400.00
BT Case	5.00	2.69	5.00	3402.00
Jars	5.00	1.00	5.00	
Safety Joint	4.75	2.69	1.75	
Equalization Adapter				
PACKER ASSEMBLY XL 1	6.75	1.50	8.56	3420.00
PACKER ASSEMBLY 2				
Equalization Pipe				
Perforated Anchor Adapter	5.00	2.50	10.00	
Blanked off BT Gauge				
PACKER ASSEMBLY 3				
PACKER ASSEMBLY 4				
Perforated Anchor				
Side Wall Anchor				
Drill Collars				
Drill Pipe				
Blanked OFF BT Case	5.00	0.00	4.23	3431.00
T.D.				3435.00



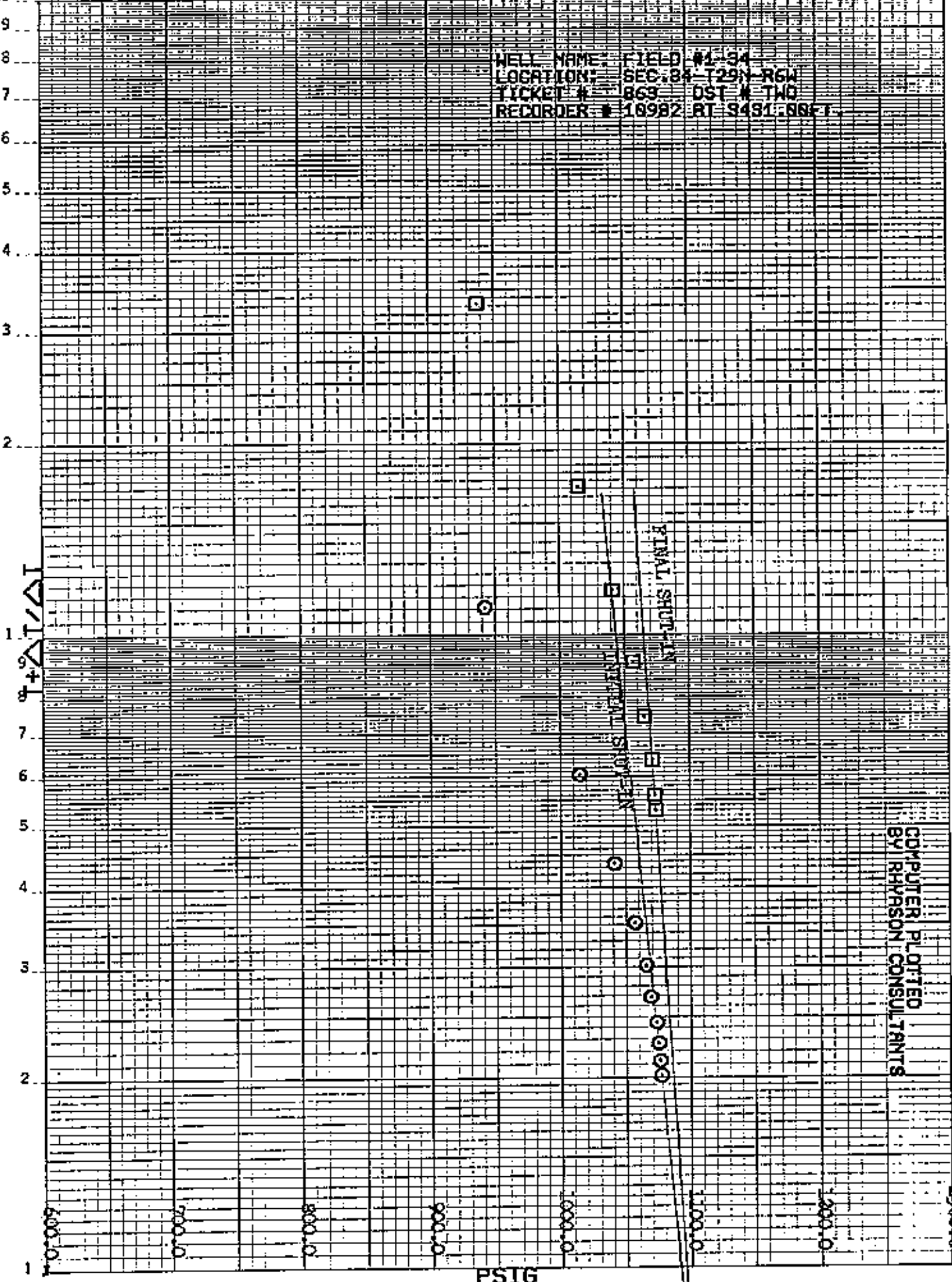
2

K&E SEMI-LOGARITHMIC #2 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 4970

HORNER

WELL NAME: FIELD #1-34
LOCATION: SEC. 84 T29N R6W
TICKET # 869 DST # TWO
RECORDER # 18982 RT 9491-8851



COMPUTER PLOTTED
BY RHYSON CONSULTANTS

PSIG
#2

WELL NAME & LOCATION : FIELD #1-34 SEC.34-T29N-R6W
 TICKET# 863 DST# TWO
 RECORDER #: 10982 AT 3431.00 FT.

TO = : 60

T = : 192

INITIAL SHUT-IN TIME	$\frac{10+\Delta T}{\Delta T}$	PSIG	KPA	$\frac{PSIG^2}{10^6}$	*	FINAL SHUT-IN TIME	$\frac{T+\Delta T}{\Delta T}$	PSIG	KPA	$\frac{PSIG^2}{10^6}$
0	-	276.2	1904	.076	*	0	-	262.4	1809	.069
6	11.00	843.2	6503	.890	*	6	33.00	838.0	6467	.880
12	6.00	1016.3	7007	1.033	*	12	17.00	1016.3	7007	1.033
18	4.33	1043.0	7191	1.088	*	18	11.67	1042.1	7185	1.086
24	3.50	1058.3	7288	1.120	*	24	9.00	1058.3	7288	1.120
30	3.00	1067.0	7356	1.138	*	30	7.40	1066.2	7351	1.137
36	2.67	1070.4	7380	1.146	*	36	6.33	1072.1	7391	1.149
42	2.43	1074.7	7409	1.153	*	42	5.57	1073.9	7404	1.153
48	2.25	1076.5	7422	1.159	*	45	5.27	1074.7	7409	1.155
54	2.11	1077.3	7427	1.161	*					
60	2.00	1078.2	7433	1.163	*					

DATA

	INITIAL SHUT-IN	FINAL SHUT-IN
NO. OF INCREMENTS-----	10	8
NO. OF POINTS EXTRAPOLATED-----	4	3
SLOPE OF EXTRAPOLATED LINE-----	48	31
EXTRAPOLATED PRESSURE-----	1092.00 PSI	1096.00 PSI

RESERVOIR PROPERTIES

INTERVAL-----	15	FEET
RESEVOIR TEMPERATURE-----	77	F
TOTAL FLOW TIME-----	192	MIN.
FINAL FLOW PRESSURE-----	262.40	PSI
GROUND ELEVATION-----	4035	FT.
RECORDER#10982 DEPTH-----	3431	FT.
POROSITY-----	-	%
D.C. RECOVERY-----	505	FT. OF GAS CUT OIL
D.P. RECOVERY-----	365	FT. OF GAS CUT OIL

CALCULATION RESULTS

DAMAGE RATIO = 5.45 ** IMPERIAL

--OIL RECOVERY--

TRANSMISSIBILITY-----	165.42	MD-FT/CP
AVERAGE PERMABILITY-----	11.03	MD
INSITU CAPACITY-----	165.45	MD-FT
RADIUS OF INVESTIGATION-----	46.02	FT.
POTENTIOMETRIC SURFACE-----	1926.66	FT.
PRODUCTIVITY INDEX-----	.06	BBL/DAY-PSI
TEST PRODUCTION OIL-----	48.52	BBL/DAY

EST'D RECOVERY DAMAGE REMOVED-- 264.43 BBL/DAY

COMPUTATIONS BY RHYASON CONSULTANTS
 PH: 265-6788

MONTANA OIL WELL CEMENTERS, INC.

RADIO DISPATCHED UNITS

P.O. Box 226, Cut Bank, Montana 59427
(406) 873-4211 & Havre: (406) 265-4402

PHONES: 873-4211
Cut Bank 873-2628
Havre 265-4402
Mobile 873-4702

12 376

ACIDIZING WORK ORDER & INVOICE

Remit to P.O. Box 226, Cut Bank, Montana 59427

HFE # 282-304-1223

District C.B. Date 4-29-82 P.O. No. _____ Treatment Log. No. 265
Company Oxy. Petroleum Inc.
Mail Invoice To 999 17th 1st Denver Place
Address Denver Colo 80202
Lease & Well No. Field 1-34 Job Started 8:00 P.M. Job Completed 10:00 P.M.
County Denver State MT Field W.C. Section 34 Township 29 Range 6W

Type of Well: Workover Exploratory Development Other: (write in) _____

Treatment No. 1 Zone Madison

Hole Data: Bore Size _____ Total Depth _____ Rotary Cable Tool Air

Casing: New Used Size 5 1/2 Weight 17 Depth 3480 Type _____

Perforations: From 3424 - 3428 to _____

Treated Perfs.: From 3424 3428 to _____

Tubing or Drill Pipe: Size 2 7/8 Weight 6.5 Total Depth 3377

Packer Baker Full Bore Retractable Packer Set at 3377

Previous Treatment None

Reg. Acid—Gals. 1000 gal 15% HCL

Pressure 1500

Truck # 9 Mileage 40 Transport _____

Treater Ben Driver(s) Fred

Additives Inhibitor 100

Non-Emission

Iron Sequestering



TERMS: Cash at time of sale—Net 30 days to approved credit accounts. After 30 days accounts will be charged 1 1/2% per month service charge on unpaid balance. If necessary, to resort to legal action to collect any account such account will be charged with all collection costs—including reasonable attorneys fees.

CONDITIONS, WARRANTY AND RESPONSIBILITY: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor.

It is expressly understood that Montana Oil Well Cementers, Inc. shall not be responsible for damages or losses, direct, indirect, special, consequential, or of any kind whatsoever, occasioned by or incident to the use of Montana Oil Well Cementers, Inc. products and accessory equipment, or part thereof, whether resulting from the negligence of Montana Oil Well Cementers, Inc. or any of its agents, servants or employees.

The entire warranty or guarantee and responsibility, either expressed or implied, by Montana Oil Well Cementers, Inc. is expressed above and no agent, dealer or representative, connected with or employed directly or indirectly by Montana Oil Well Cementers, Inc. has authority to verbally or in written form alter, extend or exceed the warranties or guarantees and responsibilities expressed herein.

I have read, understand and accept the foregoing conditions, warranty or guarantee and responsibility and represent that I am authorized to sign this order as agent of the owner or contractor. I certify that the above material has been used; that the basis for charges are correctly stated; and that I am authorized to sign this memorandum as agent of owner or contractor.

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED

Owner or Contractor Oxy. Petroleum By [Signature]

Phones: 873-4211
873-2628
265-4402
Mobile: 873-4702

MONTANA OIL WELL CEMENTERS, INC.

P. O. Box 226 Cut Bank, Montana 59427

No. 10007

WORK ORDER & INVOICE

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED

District Cut Bank Date 3/27/82 Order No. _____ Req. No. _____
 Company Oxy Petroleum
 Contractor GENERAL WELL SERVICE RIG #21
 Lease and Well No. Field 1-34 Job Started: 1:00 P.M. Job Compl: 4:00 P.M.
 County and State ROCKWELL, MONT. Field W/C Section 34 Township 29N Range 2W
 Mail Invoice To Oxy Petro.
 Address 123 W 1st St SE 2209 Casper, Wyo

Type of Well: Workover Exploratory Development Other
 Type of Job: Sur. Inter. Prod. Squeeze Pumping P & A
 P. B. Other (Write In) _____
 Casing: New Used Size 5 1/2" Weight 17.10 Depth 3487' Type _____
 Hole Data: Bore Size: 7 7/8" Total Depth 3485' Rotary Cable Tool
 Tubing or Drill Pipe: Size _____ Type _____ Weight _____ Total Depth _____
 Cementing Packer: Size _____ Type _____ Weight _____ Depth Set _____
 Type Float Equipment: GUIDE SHOE, DOPP FILL COLLAR, 1 LOK RING, 17 CENT.

P & A Data: _____ No. Sacks _____
 Plug No. 1 - From _____ To _____ Plug No. 5 - From _____ To _____
 Plug No. 2 - From _____ To _____ Plug No. 6 - From _____ To _____
 Plug No. 3 - From _____ To _____ Plug No. 7 - From _____ To _____
 Plug No. 4 - From _____ To _____ Plug No. 8 - From _____ To _____



Cement Data: Bulk Sacked Mixed Wt. Per Gal. _____ Sacks _____ Type _____
 Admix 130sx mont. lite cement 70sx CLASS C 14.5 PPG
 Plugs & Heads: Top Plug 5 1/2" Type POWER; Bottom Plug _____ Type _____ Type Head _____
 Pressure: Circulating _____ Minimum _____ Maximum 200

Displacement Data: Displaced with _____ Barrels Plug back at _____
 Remarks: Pump 10 BBS and flush 10 BBS HD ahead of 130 SX MONT. LITE CEMENT followed by 70 SX TYPE C. which mixes & DISAPPEARS with 80 BBS HOT WATER. Pump plug with 800 PSI. float did hold.

Phone (406) 873-4211 or (406) 873-2628

WORK ORDER & INVOICE

Remit to P.O. Box 226, Cut Bank, Montana 59427-0226

District _____ Date 5-18-82 P.O. No. _____ Treatment _____
 Company Frank's Oil Co
 Mail Invoice To IT F.M.H.I.N.
 Address Cut Bank Wyo
 Lease & Well No. Field 1-34 Job Started _____
 County Rockwell State MT Field W/C Section _____ Township _____ Range _____



Type of Well: Workover Exploratory Development Zone Production Line
 Hole Data: Bore Size _____ Total Depth _____ Rotary Cable Tool Air
 Casing: New Used Size _____ Weight _____ Depth _____ Type _____
 Perforations: From _____ To _____ From _____ To _____ From _____ To _____
 Treated Perfs: From _____ To _____ From _____ To _____ From _____ To _____
 Tubing or Drill Pipe: Size 2 7/8 Weight 6.7 Total Depth 3443'
 Packer SIC Set at 3383

Previous Treatment _____
 Reg. Acid - Gals 500 yellow 200 HCL
 Pressure 1000
 Truck ATV Mileage 37 Transport Mileage _____
 Treater BEN Driver(s) JUD
 Additives Tubing - SURETREAT

Phones: 873-4211
873-2628
265-4402
Mobile: 873-4702

MONTANA OIL WELL CEMENTERS, INC

P. O. Box 226 Cut Bank, Montana 59427

WORK ORDER & INVOICE

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED



District: Cut Bank Date: 3/19/82 Order No. _____
Company: ROY PETROLEUM INC.
Contractor: GENERAL VIEW SERVICE Rig #21
Lease and Well No.: Field 1234 Job Started: 3:45 P.M. Job Comp: 4:15 P.M.
County and State: POUNDERA, MONT. Field: WIC Section: 24 Twp: 24N Range: 6W
Mail Invoice To: ROY PETROLEUM INC. GENERAL VIEW SERVICE
Address: PO BOX 300 - CUT BANK, MONTANA

Type of Well: Workover, Exploratory, Development, Other
Type of Job: Sur., Inter. Prod. Squeeze Pumping P & A
P. B. Other (Write In) _____

Casing: New Used Size: 8 5/8" Weight: 211.5 Depth: 178' Type: RL
Hole Data: Bore Size: 10 1/4" Total Depth: 175' Rotary Cable Tool
Tubing Or Drill Pipe: Size _____ Type _____ Weight _____ Total Depth _____
Cementing Packer: Size _____ Type _____ Weight _____ Depth Set _____
Type Float Equipment: GUIDE SHOE, INSERT FLOAT, 3 CENTRALIZERS, 1 LOCK-RING

P & A Date:	No. Sacks	No. Sacks
Plug No. 1 - From _____ To _____		Plug No. 5 - From _____ To _____
Plug No. 2 - From _____ To _____		Plug No. 6 - From _____ To _____
Plug No. 3 - From _____ To _____		Plug No. 7 - From _____ To _____
Plug No. 4 - From _____ To _____		Plug No. 8 - From _____ To _____

Others _____
Cement Data: Bulk Sacked Mixed Wt. Per Gal. 14.5 Sacks 100 Type C Brand DEEM
Admix: 3% CAC
Plugs & Heads: Top Plug 8 5/8" Type RUBBER; Bottom Plug _____ Type _____ Type Head _____
Pressure: Circulating _____ Minimum _____ Maximum _____

Displacement Data: Displaced with _____ cu. ft. 8.5 Barrels Plug back at _____
Remarks: Pump 10 BBL H₂O ahead of Cement. Displace with 8.5 BBL H₂O. Pump plug with 1500 PSI. Blank did hold.

Thankyou

CHECK SHEET

Date February 18, 1982

Company *Western Reserve, Inc*
Oxy Petroleum Inc. Box 40 Mills, Wyoming 82644

Well Name Field No. 1-34

County Pondera Field Wilcat

Location 1700 FSL 1300 FWL SE NW SW Sec. 34 Twp. 29N Rge. 6W

Permit No. N-9655

Receipt No _____

Drilling Fee 75.00

Intention to Drill 2-18-82

API No. 013-21609

Permit Expiration Date ~~2-18-82~~ 5-19-82

Permit Extended 90 days From _____ To _____

\$ 5,000 one well bond _____

\$10,000 blanket bond X

\$20,000 blanket bond _____

Government well _____

Sundry Notices *Chg of Operator 7-7-87*

" " *Intent to Abandon 1-24-89*

" " _____

" " _____

Log of Well 3-8-82 / 3-28-82 / 3485 / 23

Subsequent Report of Abandonment ¹²⁻²⁹⁻⁸⁹ 6-1-90 Bo7D

Electric Log _____

Radioactive Log _____



Form No. Rule 204.3 and 210

LOCATE WELL CORRECTLY

(SUBMIT IN TRIPLICATE) TO BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA BILLINGS OR SHELBY

COMPLETION REPORT

Company OXY PETROLEUM, INC. Lease C. FIELD Well No. 1-34

Address 5000 Stockdale Hwy., Bakersfield CA. Field (or Area) Wildcat

The well is located 1,700' ft. from (S) line and 1,300' ft. from (W) line of Sec. 34 4049' K.B.

Sec. 34; T. 29 N; R. 6 W; County PONDERA; Elevation 4037' G.L. (D.F., R.B. or G.L.)

Commenced drilling 3 - 8, 1982; Completed 3 - 28, 1982

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL (oil well, gas well, dry hole)

Signed T.D. Blacklock T.D. BLACKLOCK

Title Division Operations Superintendent

Date JUNE 28, 1982

IMPORTANT ZONES OF POROSITY (denote oil by O, gas by G, water by W; state formation if known)

From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sacks of Cement	Cut and Pulled from
16"	--	Conductor		40'	40'	surface	cmt'd to	surface
8 5/8"	24 #	K-55	ST&C	175'	175'	surface	100	--
5 1/2"	17 #	J-55	LT&C	3480'	3480'	surface	200	2120'

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2 7/8"	6.5	J - 55	8 rd		

COMPLETION RECORD

Rotary tools were used from Surface to 3485'
Cable tools were used from _____ to _____
Total depth 3485 ft.; Plugged back to 3480 T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3430'	3424'	2 1/2" J.H.P.F.	3430'	3424'	1000 gals of 15% HCL	

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Madison - Sun River (pool) formation.

I. P. 23 barrels of oil per Day 3300 Pumping (pumping or flowing)

47 Mcf of gas per _____ hours.

47 barrels of water per day hours, or _____ % W.C. (OVER)

ELECTRICAL LOG FORMATION TOPS

CRETACEOUS

	<u>DEPTH</u>	<u>DATUM</u>
Base Two Medicine	743'	(+3,302')
Colorado	823'	(+3,222')
Blackleaf	1,767'	(+2,278')
Dakota	2,530'	(+1,515')
Sunburst	3,042'	(+1,003')

JURASSIC

Morrison	3,102'	(+943')
Swift	3,177'	(+868')
Rierdon	3,307'	(+738')
Sawtooth	3,403'	(+642')

MISSISSIPPIAN

Madison (Sun River)	3,423'	(+622')
---------------------	--------	---------

DRILLER'S TD	3,485'	(+560')
--------------	--------	---------

LOGGER'S TD (Schlumberger)	3,482'	(+563')
----------------------------	--------	---------

073-21609

(SUBMIT IN QUADRUPPLICATE)

TO

- MAC 36-3.18(10)-S18020
- MAC 36-3.18(10)-S18030
- MAC 36-3.18(10)-S18140
- MAC 36-3.18(10)-S18170
- MAC 36-3.18(10)-S18200
- MAC 36-3.18(10)-S18310
- MAC 36-3.18(10)-S18330
- MAC 36-3.18(14)-S18380

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.



BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	XXX	Subsequent Report of	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	AMOUNT RECEIVED <u>75.00</u>
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	CHECK NO. <u>819</u>
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	DRILLING PERMIT NO. <u>N-9655</u>
Notice of Intention to Pull or Alter Casing		Supplementary Well History	EXPIR. DATE <u>5-19-82</u>
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

February 10, 1982

Following is a notice of intention to do work on land owned described as follows:

LEASE Field
 Pondera County, Montana
 WILDCAT Field

Well No. 1-34 SE NW SW 34 29N 6W MPM
 (m. sec.) (Township) (Range) (Meridian)

The well is located 1700 ft. from S line and 1300 ft. from W line of Sec. 34

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground above the sea level is 4031

READ CAREFULLY
CORES AND CUTTINGS TO BE DELIVERED TO BOARD OF OIL & GAS CONSERVATION, 2635 ST. JOHNS AVE., BILLINGS MONTANA IN ACCORDANCE WITH MAC 36-3.18(10)-S18300

FILING WITH THE COMMISSION ALL LOGS, REPORTS, SURVEYS AND ANALYSES MADE OR RUN IS REQUIRED IN ACCORDANCE WITH RULE NO. 230.

DETAILS OF WORK RESULT

This well will be a test of the Madison zone for oil. Estimated total depth is 3600'. Surface pipe will be set at 500' with 250sx. Pipe will be 9 5/8"/40" ex. Production pipe will be 5 1/2"/17# set at total depth with 250 sx. Production zones will be treated with acid. Estimated tops include Dakota 2492'; Morrison 3077'; Swift 3127'; and Madison 3405'.

Approved for Gas only

Approved subject to conditions on reverse of form

Date FEB 18 1982

By Floyd W. Podall, field supervisor
 District Office Agent Title

Maurice L. Hatcher
 Company Oxy Petroleum Inc
 By Hatcher Petro-Land Inc
 Title Box 40, Mills, Wyoming 82644
 Address Agent

BOARD USE ONLY
API WELL NUMBER

STATE 25 COUNTY 0173 WELL 21161019

NOTE:—Reports on this form to be submitted to the appropriate District for approval
 WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDED OR EXTENSION REQUESTED.

OVER

**Locate well by footage measurement from legal subdivision (Section) line
and nearest drilling or producible well, if any.**

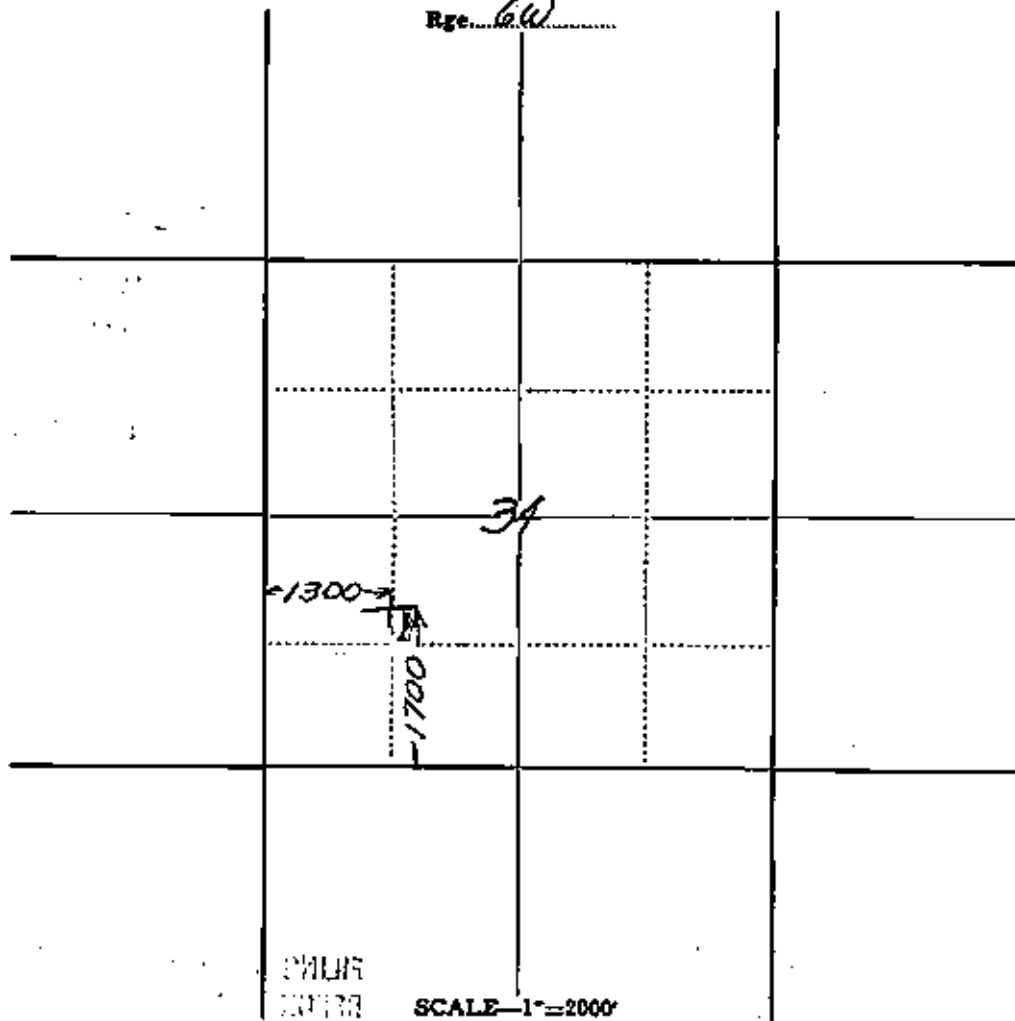
Form No. 2
File at
Billings
or Shelby

Form No. 2
File at
Billings
or Shelby

Rge. 6W

Locate
Well
Correctly

Twp. 29N



SCALE-1"=2000'

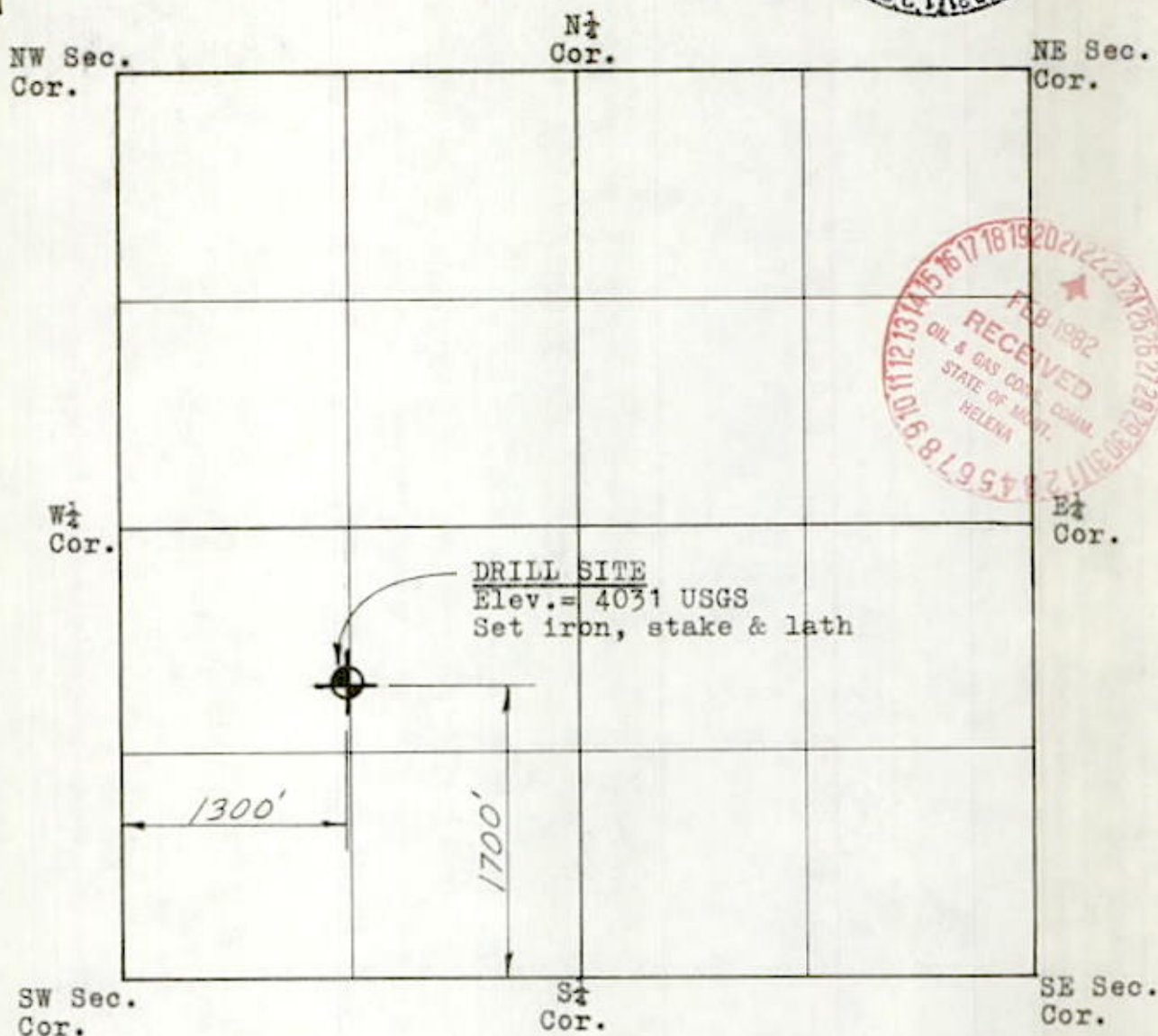
THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.
3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 3 for approval by the Board prior to commencement of work.
8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 230 and one copy of all cementing records as furnished by the cementing company and described in Rule 234.
11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

DRILLING SITE SURVEY

SECTION 34

T29N, R6W, P.M.M.,
PONDERA COUNTY, MONTANA



SURVEY FOR: Oxy Petroleum Company
c/o Mr. Dennis Lopez
410 17th Street, Suite 850
Denver, Colorado 80202

PURPOSE OF SURVEY: To locate a drill site in the NW 1/4
of the SW 1/4, Sec. 34, T29N, R6W, PMM,
Pondera County, Montana.

WELL NO.: Field 1-34

SURVEYORS CERTIFICATE

I, Robert E. Findorff of Choteau, Montana do hereby certify that this is a correct and true survey as hereon delineated and is located in the NW 1/4 of the SW 1/4, Sec. 34 T29N, R6W, PMM, Pondera County, Montana.

Feb. 19, 1992
Dated *Robert E. Findorff*
Robert E. Findorff
Registration No. 3976ES
Box 490
Choteau, Montana 59422

HATCHER PETRO-LAND, INC.

"Let Marv Handle Your Permit Requirements"

P.O. Box 38 • Mills, Wyoming 82644

Marvin L. Hatcher, Boss
Bus. Phone 307 - 237-8201
Home Phone 307 - 234-6718

Oxy Petroleum Inc. #1-34
SE NE SW 34-29N-6W, Pondera County, Montana

Estimated Geological Tops

Cretaceous	
Colorado Shale	818'
Blackleaf	1808'
Bow Island	2238'
Dakota	2492'
Kootenai	2542'
Sunburst	3032'
Jurassic	
Morrison	3077'
Swift	3127'
Rierdon	3290'
Sawtooth	3393'
Mississippian	
Madison	3405'
Proposed Total Depth	3600'



(SUBMIT IN QUADRUPLICATE)

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.

RECEIVED
DEC 1989
BOARD OF OIL & GAS CONSERVATION
STATE OF MONT.
SHELBY

TO

**BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY
SUNDRY NOTICES AND REPORT OF WELLS**

RECEIVED
DEC 1989
MONTANA
STATE
BILLINGS

ARM 36.22.1007
ARM 36.22.1001
ARM 36.22.602
ARM 36.22.603
ARM 36.22.604
ARM 36.22.605

ARM 36.22.1003
ARM 36.22.1004
ARM 36.22.1013
ARM 36.22.1301
ARM 36.22.1306
ARM 36.22.1309

Notice of Intention to Drill*	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	X
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

12/28, 1989

Following is a notice of intention to do work on land owned leased described as follows:

LEASE FIELD

MONTANA (State)

PONARRA (County)

EAST CROCKER SPRINGS (Field)

Well No. 1-34 FIELD 34 (m. sec.) 29N (Township) 6W (Range) (Meridian)

The well is located 1700 ft. from N S line and 1300 ft. from E W line of Sec. 34

* For notice of intention to drill, write the API* or the well name of another well on this lease if one exists.

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4031

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

**DETAILS OF WORK
RESULT**

WELL WAS PLUGGED WITH 20 SX PLACED AT BOTTOM OF CASING AND 10 SX AT SURFACE. WELL SERVICING BY JR BACON AND CEMENT PROVIDED AND PUMPED BY HALLIBURTON

(LOCATION INSPECTED & APPROVED, 5-31-90 G.L.)

Approved subject to conditions on reverse of form

Date

JUN 01 1990

By Steve P. Sinski District Office Agent

Title

Company ARCHEAN MINING FOR WESTERN RESERVES
By GLEN M. LANDRY

Title PRESIDENT OF ARCHEAN

Address P.O. Box 3502, BILLINGS, MT 59103

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL
MT	0713	2116109

NOTE:—Reports on this form to be submitted to the appropriate District for approval.
DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

**Locate well by footage measurement from legal subdivision (Section) line
and nearest drilling or producible well, if any.**

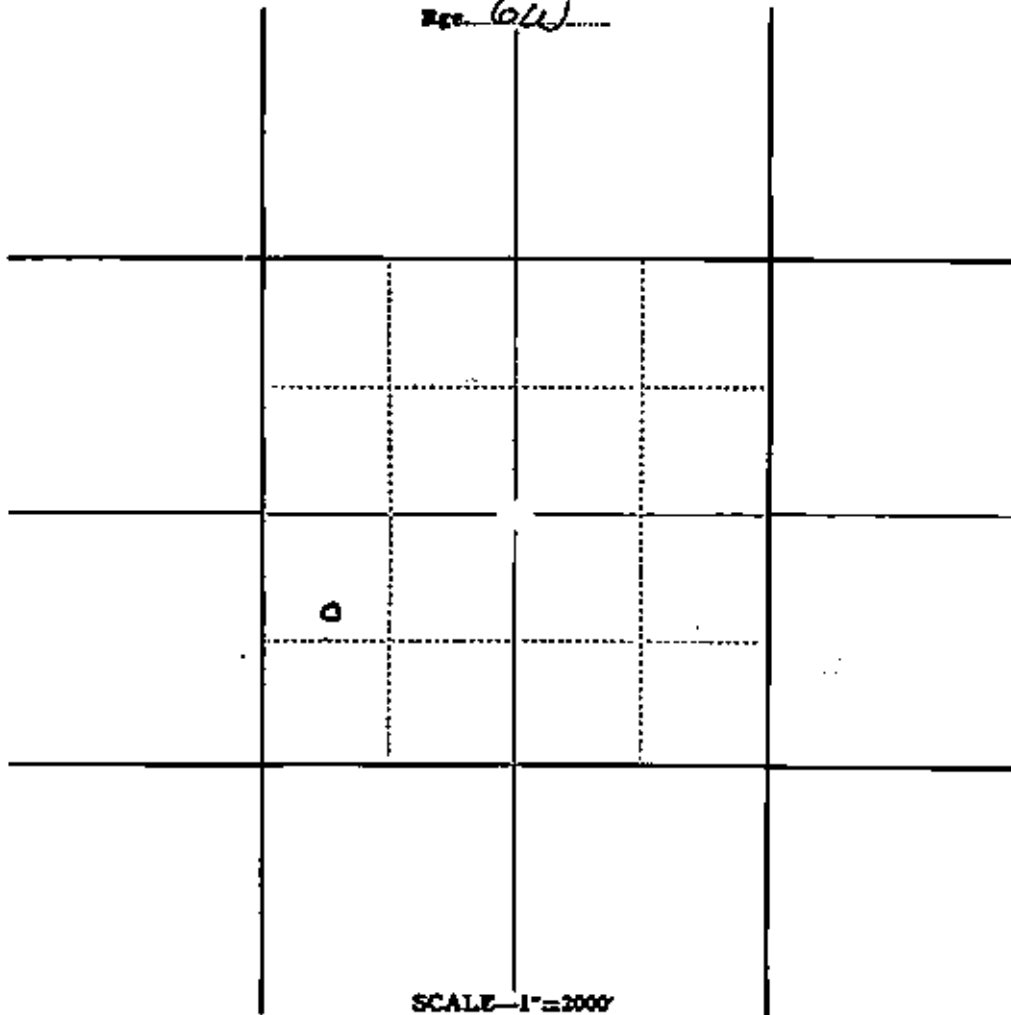
Form No. 2
File at
Billings
or Shelby

Form No. 2
File at
Billings
or Shelby

Egs. 6W

Locate
Well
Correctly

Twp. 29N



SCALE-1"=2000'

THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana. Date of spudding must be reported to the Board verbally or in writing within 72 hours of commencing drilling.
3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.
8. A satisfactory drilling record must be kept for each well, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 36.22.1013 and one copy of all cementing records as furnished by the cementing company and described in Rule 36.22.1241.
11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

(SUBMIT IN QUADRUPPLICATE)

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

TO

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.



Notice of Intention to Drill*		Subsequent Report of Water Shut-off
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing		Supplementary Well History
Notice of Intention to Abandon Well	X	Report of Fracturing

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

JANUARY 9, 1989

Following is a notice of intention to do work on land owned/leased described as follows:

LEASE FIELD

MONTANA (State)

SENUSU

PONDREA (County)

E. CROCKER (Field)

Well No. 1-34 FIELD 34 (m. sec.) 29N (Township) 6W (Range) (Meridian)

The well is located 1700 ft. from S line and 1300 ft. from W line of Sec. 34

* For notice of intention to drill, write the API* or the well name of another well on this lease if one exists.

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4037 GL

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing)

DETAILS OF WORK

RESULT

INTRUD ON TAGGING BOTTOM @ APPROXIMATELY 3455'
AND PLACE A 20 SACK PLUG OF REGULAR CEMENT
ACROSS PERFORATIONS AT 3424 TO 3430. WILL PLACE
ADDITIONAL 5 SACK PLUG AT SURFACE AND CUT
CASING OFF BELOW PLOW DEPTH

VERBAL APPROVAL: 1/11/89 BY FLOYD ROLL

Approved subject to conditions on reverse of form

Company WESTERN RESERVES

Date JAN 21 1989

By GLEN M. LAUDRY

By Steven P. Shank, District Office Agent, Title Field Supervisor

Title (Signature)

Address P.O. Box 397

Somos, MT 59932

BOARD USE ONLY
API WELL NUMBER



NOTE—Reports on this form to be submitted to the appropriate District for approval. DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

A-104

1
**Locate well by footage measurement from legal subdivision (Section) line
 and nearest drilling or producible well, if any.**

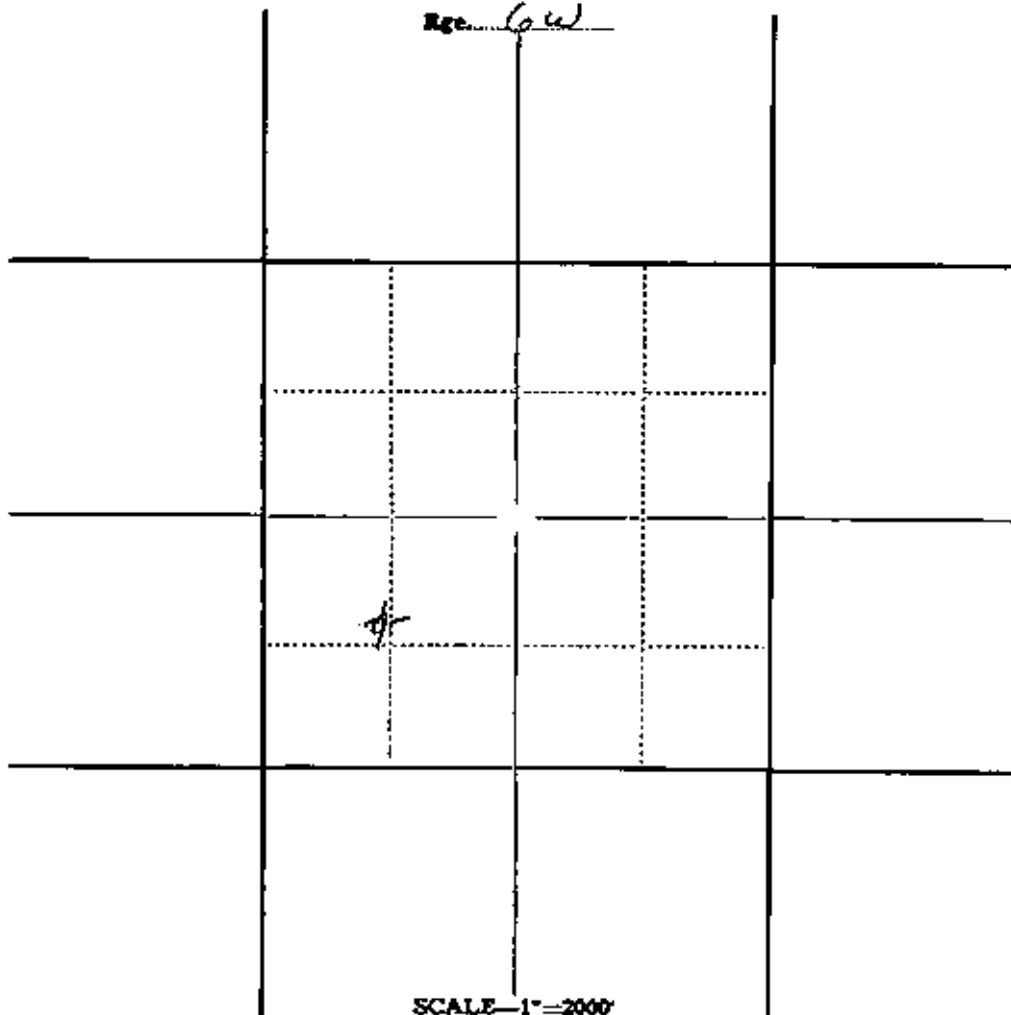
Form No. 1
File at
Billings
or Shelby

Form No. 2
File at
Billings
or Shelby

Age *6 W*

Locate
Well
Correctly

Twp. *29 N*



SCALE—1"=2000'

THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana. Date of spudding must be reported to the Board verbally or in writing within 72 hours of commencing drilling.
3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.
8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 36.22.1013 and one copy of all cementing records as furnished by the cementing company and described in Rule 36.22.1241.
11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

Blaze

(SUBMIT IN QUADRUPPLICATE)
TO

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.



ARM 36.22.1003
ARM 36.22.1004
ARM 36.22.1013
ARM 36.22.1301
ARM 36.22.1306
ARM 36.22.1309

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHEI.BY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill *		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
change of operator	X		

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 12, 1987

19

Following is a notice of intention to do work { on land } owned { described as follows:
report of work done { leased

LEASE TYPE private LEASE Fields
(Private, State, Federal, Indian)
MONTANA Pondera East Crocker Springs
(State) (County) (Field)

Well No. 1-34 Field 34 29N 6W
(m. sec.) (Township) (Range) (Meridian)

The well is located 1700 ft. from N line and 1300 ft. from W line of Sec. 34

* For notice of intention to drill, write the API* or the well name of another well on this lease if one exists

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4031 ground

READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing)

DETAILS OF WORK
RESULT

A change of operator is hereby submitted. The new operator is Western Reserves, Inc.

Western Reserves hereby accepts this change:

Charles J. Shelton

Approved subject to conditions on reverse of form

Date JUL 07 1987
By Dee Nickman, Executive Secretary
District Office Agent Title

Company CITIES SERVICE OIL AND GAS CORPORATION
By Charles J. Shelton
Title Attorney-in-Fact
Address P. O. Box 300, Tulsa, OK 74102

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL
MT	CON	21/16109

NOTE:—Reports on this form to be submitted to the appropriate District for approval.
DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

TO

NOTICE
THIS FORM BECOMES
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

RECEIVED
JUL 1984
OIL & GAS CONS. COMM.
STATE OF MONTANA
BILLINGS

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

RECEIVED
1984

OF OIL
& GAS
CONS
NT - HELENA

Notice of Intention to Drill *	Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	Supplementary Well History
Notice of Intention to Abandon Well	Report of Fracturing
	Change of Operator

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

July 12, 1984

Following is a notice of intention to do work on land owned described as follows:
report of work done leased

LEASE Carl Field
Carl Field

MONTANA
(State)

Pondera
(County)

(Field)

Well No. 1-34 (m. sec.) 34 29N (Township) 6W (Range) (Meridian)

The well is located 1700 ft. from $\frac{X}{S}$ line and 1300 ft from $\frac{X}{W}$ line of Sec. 34

* For notice of intention to drill, write the API* or the well name of another well on this lease if one exists.

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4049' KB

READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFULLY

(State names of and expected depths to objective sands, show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing)

DETAILS OF WORK RESULT

Although Occidental Petroleum is still the lessee of record, Cities Service Oil & Gas Corporation now operates the above mentioned well.

Posted on bond
Carls 7-17-84

Transferred from Occy Petroleum, Inc. bond to Cities Service Oil and Gas Corp. bond.

Approved subject to conditions on reverse of form

Company Cities Service Oil & Gas Corporation

Date 7/12/84

By Timothy L. Cook

By Rickman, District Office Agent Title

Title Engineer
1600 Broadway, Suite 900

Address Denver, Colorado 80202

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval
DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

Check
permit
date

5
PR

073-21561

OPERATIONAL SUMMARY AND
GEOLOGICAL WELL HISTORY



OXY PETROLEUM, INC.

#1-34 CHARLES W. FIELD

SECTION 34, T29N-R6W

PONDERA COUNTY, MONTANA

by S. S. WARNER, GEOLOGIST,

OXY PETROLEUM, INC.

R E S U M E :

SPUD DATE: March 9, 1982 @ 1:30 a.m.

RIG RELEASED: March 28, 1982 @ 10:00 a.m.

STATUS: Shut in - Waiting on completion.

ELEVATION: G.L. - 4,033'
D.F. - 4,044'
K.B. - 4,045'

TOTAL DEPTH: 3,485' (Driller's)
3,482' (Logger's)

CONTRACTOR: General Well Service, Inc. Rig #21

TYPE RIG: Cooper LTO Double Drum, 104' derrick,
powered by GMC 8V-71N derrick engine

MUD PUMP: Continental Emsco Type D-375, strock
length - 14"

MUD PROGRAM: Surface hole, 0-180', gel-lime slurry

Air drilling, 180-415', watered out at
415'

Drilled w/mud, 415'-TD, a nondispersed
ligno-sulfonate mud system

HOLE SIZE: 0-180' - 12-1/4"
180'-TD - 7-7/8"

SIZE DRILL PIPE: 3-1/2", 13.30 lbs./ft., Grade E, IF Thread

SIZE DRILL COLLARS: 5-1/2" OD; 4" ID

NO. DRILL COLLARS: 18 (517.41')

SAMPLE INTERVALS: 30', 15' and 10' samples from 180' to TD

SAMPLE QUALITY: Fair to excellent

CORES: (1) 3,430-35' - no recovery

DRILLSTEM TESTS: #1, 3,422-33', Madison (Sun River)
#2, 3,420-35', Madison (Sun River)

MUD AND AIR DRILING SUMMARY

SURFACE HOLE:	Gel-lime slurry	
MATERIALS USED:	Hydrogel	26 sx
	Lime	4 sx
	Caustic sodn	1 sack
BELOW SURFACE:	Air drilling to 415'	
	415'-TD - Nondispersed ligno-sulfonate mud system	
MATERIALS USED:	Hydrogel	365 sx
	Driscose (Low)	26 sx
	Raychrome (CLS)	49 sx
	Causticized lignite	5 sx
	Soda ash	4 sx
	Caustic soda	18 sx
	Defoamer	5 gals
	Mica (Fine)	27 sx
	Ironite sponge	10 sx
	Ammonium nitrate	13 sx

MATERIAL DESCRIPTION

HYDROGEL:	High yield Wyoming bentonite (100# bag) - Used as viscosity builder.
LIME:	Calcium hydroxide (50# bag) - Used as viscosity builder.
CAUSTIC SODA:	Sodium hydroxide (50# bag) - Used to control pH.
DRISCOSE:	Sodium carboxymethyl cellulose (50# bag) - Used to help control water loss.
RAYCHROME (CLS):	Chrome lignosulfonate (50# bag) - Used to help control water loss and as deflocculent.
CAUSTICIZED LIGNITE:	Lignite thinner - causticized (50# bag) - Used to help control water loss and as deflocculent.
SODA ASH:	Sodium carbonate (100# bag).
MICA:	Mica flakes (50# bag) - Used as a hole lubricant.
IRONITE SPONGE:	Iron oxide H ₂ S scavenger (50# bag) - Used as an H ₂ S scavenger.
AMMONIUM NITRATE:	Ammonium nitrate (50# bag) - Used as a formation water tracer.

BIT RECORD

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Feet</u>	<u>Hours</u>	<u>Wt. on Bit</u>	<u>RPM's</u>	<u>Pump Pres.</u>
1A	12-1/4	STC	DJ	180'	11.00	15,000	120	100
1	7-7/8	Hughes	OSC-3	235'	7.25	20,000	60	500
2	7-7/8	Reed	FP-12	1,145'	30.50	20,000	120	800
3	7-7/8	Reed	4-12	220'	6.25	20,000	120	800
4	7-7/8	STC	DTJ	148'	7.00	15,000	120	800
5	7-7/8	Hughes	J-22	1,081'	100.50	20,000	50/80	1,000
6	7-7/8	Hughes	J-22	424'	52.25	20,000/ 25,000	60/80	1,000
7	7-7/8	Chris	MC-23	5'	.50	3,000/ 8,000	50/55	210

LOGGING PROGRAM - SCHLUMBERGER

128-3,476'	Dual Induction - SFL
102-3,480'	Compensated Neutron Density - Gamma Ray
50-3,470'	Bore Hole Compensated Sonic - Gamma Ray

A Schlumberger Cyberlook Computer Processed Log was made over the interval 1,750-3,480'.

VERTICAL HOLE DEVIATION SURVEYS

<u>DEPTH</u>	<u>DEGREES</u>
560'	0
1,560'	1
1,780'	4-1/4
1,923'	4-1/4
2,811'	4
3,009'	4
3,254'	3-3/4
3,433'	3-3/4

For detailed deviation, see enclosed report by AMF Scientific Drilling (a magnetic directional survey).

SAMPLE DISTRIBUTION

Washed, wet samples were caught and shipped to American Stratigraphic Company's sample library in Denver, CO. These are to be cut and shipped to the following:

- 1) MT Oil & Gas Conservation Comm.
2535 St. Johns Avenue
Billings, MT 59101

- 2) OXY Petroleum, Inc.
Attention Mr. S. S. Warner
One Denver Place, Tower II
999-18th Street, Suite 1501
Denver, CO 80202

- 3) Hunt Energy Corporation
Attention Ms. Linda Ehlers
2500 First National Bank Bldg.
Dallas, TX 75202

- 4) Sun Exploration Company
Attention Mr. Chris Clear
Trinity Place
1801 Broadway, Suite 1000
Denver, CO 80202

ELECTRICAL LOG FORMATION TOPS

CRETACEOUS

	<u>DEPTH</u>	<u>DATUM</u>
Base Two Medicine	743'	(+3,302')
Colorado	823'	(+3,222')
Blackleaf	1,767'	(+2,278')
Dakota	2,530'	(+1,515')
Sunburst	3,042'	(+1,003')

JURASSIC

Morrison	3,102'	(+943')
Swift	3,177'	(+868')
Rierdon	3,307'	(+738')
Sawtooth	3,403'	(+642')

MISSISSIPPIAN

Madison (Sun River)	3,423'	(+622')
---------------------	--------	---------

DRILLER'S TD 3,485' (+560')

LOGGER'S TD (Schlumberger) 3,482' (+563')

DRILLSTEM TESTS

DST#1:

3,422-33' in Madison (Sun River Dolomite). GTS during initial shut-in, final flow period. Gas flowed @ rate of 9-5 MCFD, decreasing at end.

Preflow:	15 min.
Initial shut-in:	33 min.
Final flow:	60 min.
Final shut-in	95 min.

<u>PRESSURES:</u>	First Period	3,402' Top	3,429' Bottom	
		IHP	1635.3	1648.2
		IFP	107.2	723.6
		FFP	111.5	455.4
		SIP	1061.8	1075.0
	Second Period	IFP	151.9	440.5
		FFP	297.6	730.7
		FSI	1063.6	1075.9
		FHP	1606.1	1617.6

RECOVERY:

Total fluid - 950' - 60' of ammonia cut oil and 890' of gas cut oil.

DST #2:

3,422-33' in Madison (Sun River Dolomite). GTS in 6 min. Flowed @ rate of 21-34 MCFD. Oil to surface during final flow period. Pipe partially unloaded during surge in final flow.

Preflow:	60 min.
Initial shut-in:	60 min.
Final flow:	132 min.
Final shut-in:	45 min.

<u>PRESSURES:</u>	First Period	3,402' Top	3,429' Bottom	
		IHP	1673.7	1694.6
		IFP	75.0	101.2
		FFP	270.1	276.2
		SIP	1061.8	1078.2
	Second Period	IFP	318.6	343.9
		FFP	241.1	262.4
		FSI	1061.0	1074.7
		FHP	1673.7	1694.6

RECOVERY:

Total fluid - 1,010' - 890' of highly gas cut oil and 120' of gas cut water.

CORE DATA

One core was cut in Mississippian Madison (Sun River dolomite) from 3,430-35'. There was no recovery. Penetration rate for the core was 1 to 5 minutes/ft.

DAILY ACTIVITY SUMMARY

(Calendar Days)

- 3/8/82 Moved in and rigged up General Well Service Rig #21. Drilled rat hole.
- 3/9/82 Spudded at 1:30 a.m. Drilled 12-1/4" surface hole to 180'. Set 8-5/8" surface casing with 175 sx. cement plus 3% CaCl at 113'.
- 3/10/82 Nipping up. Tested BOP's to 900#. Held for 15 minutes. Rigged up air equipment.
- 3/11/82 Blew hole dry and drilled with air to 415'. Changed over to mud and water and drilled to 747'.
- 3/12/82 Drilled 747-1,373'. Had tight hole at 778'.
- 3/13/82 Drilled 1,373-1,780'. Tripped for new bit at 1,560'.
- 3/14/82 Drilled 1,780-2,003'. Tripped for new bit at 1,928'.
- 3/15/82 Drilled 2,003-104'.
- 3/16/82 Drilled 2,104-360'.
- 3/17/82 Drilled 2,360-782'.
- 3/18/82 Drilled 2,782-968'.
- 3/19/82 Drilled 2,968-3,065'. Tripped for new bit at 3,009'. Tight hole.
- 3/20/82 Drilled 3,065-254'.
- 3/21/82 Drilled 3,254-419'.
- 3/22/82 Drilled to 3,433'. Conditioned mud. Made short trip to pull out for DST #1.
- 3/23/82 Completed DST #1. Tripped in and conditioned hole for Core #1. Cut core and tripped out.
- 3/24/82 Tripped out with Core #1. Tripped in for DST #2.
- 3/25/82 Ran DST #2. Tripped in. Drilled to 3,482' and conditioned hole.
- 3/26/82 Tripped out to run Schlumberger logs.
- 3/27/82 Set 5-1/2" casing at 3,480'. Tagged plug with 2-7/8" tubing at 3,455'.
- 3/28/82 Rig was released at 10:00 a.m.

L I T H O L O G Y

Sample descriptions begin at 170' in Cretaceous Montana Group beds. Drilling time lag was used to adjust lithology. Formation tops were determined from electrical logs. Samples were examined both wet and dry and described wet. For lithology descriptions, see the enclosed lithologic log.

073-21561

MAX'S TESTING

P. O. BOX 818

CUT BANK, MONTANA 59427



CUSTOMER Occidental Exploration & Production Co.
 WELL NO. #1-34 Field
 WELL LOCATION Sec.34-T29N-R6W
 INTERVAL 3420-3435 T.D. 3435
 COUNTY Pondera

DATE 25-03-82
 TICKET # 863 DST.# Two
 FORMATION Madison
 TYPE OF TEST Bottom Hole
 KB ELV. 4045
 GR ELV. 4035
 Ft NET PAY -
 STATE Montana

Occidental Exploration & Production Co.
 #1-34
 Wildcat
 863
 Two
 3420-3435
 #2

RECORDER DATA ALL MEASUREMENTS ARE IMPERIAL TIME DATA [CONVENTIONAL]

	PSI	PSI	PSI	PSI
PF 60 REC.#	10981	10981	10982	10982
SI 60 DEPTH	3402	3402	3431	3431
SF132 CLOCK	21132	21132	21134	21134
FS 45 BLANKED OFF	No	No	Yes	Yes
A. Init. Hyd.	1670.2	1673.7	1692.1	1694.6
B. First Flow	75.9	75.0	102.9	101.2
Bl.Final Flow	273.6	270.1	274.4	276.2
C. In Shut-in	1065.3	1061.8	1081.6	1078.2
D. Init. Flow	321.3	318.6	351.6	343.9
E. Final Flow	247.2	241.1	265.8	262.4
F. Fi Shut-in	1065.3	1061.0	1073.0	1074.7
G. Final Hrd.	1670.2	1673.7	1700.7	1694.6
	Field	Computed	Field	Computed

PF fr.	08:58 to	09:58	HR.
IS fr.	09:58 to	10:58	HR.
SF fr.	10:58 to	13:10	HR.
FS fr.	13:10 to	13:55	HR.
TIME STARTED	12:05	HR.	
TIME ON BTM	08:45	HR.	
TIME OPEN	08:58	HR.	
TIME PULLED	13:55	HR.	
TIME OUT	17:30	HR.	

MUD DATA

MUD TYPE	Gel
MUD WEIGHT	9.3
VISCOSITY	75
WATER LOSS	5.4
FILTER CAKE	2/32
MUD DROP	-

SAMPLER DATA

SURFACE PRESSURE	245
CUBIC FT. GAS	.6
C. C. OIL	1050
C. C. Mud	300
TOTAL C.C. LIQUID	1350
GRAVITY @ 60°F	33.4
GAS/OIL RATIO	90.7

GENERAL DATA

SURFACE CHOKE	1/4-2-1/4
BTM. CHOKE	.75
HOLE SIZE	Nil
AMT.OF FILL	Nil
BTM.H.TEMP	77
POROSITY I	-
HOLE COND	Good
CUSHION AMT	Nil
CUSHION TYPE	Nil
BACK PRESS. VAL.	Nil
TESTER	DeKaye
WITNESS	Warner
CONTRACTOR	General Well Service
RIG #	#21 co/26

RECOVERY
 TOTAL FLUID 1010 ft of 505 ft in D.C. and 505 ft in D.P.
 890 ft of Highly gas cut with trace of
 - ft of mud Oil after unloading.
 120 ft of Gas cut water
 - ft of -

FLUID	RESISTIVITY	TEMP	Cl. CONTENT
MUD PIT	2.40	52	2900
MUD PIT FILTRATE	1.95	52	3700
RECOVERED WATER	-	-	-
RECOVERED MUD	-	-	-
RECOVERED MUD FILTRATE	-	-	-

REMARKS:
 Opened Tool at 08.58 hrs with strong blow off bottom of 5 gallon bucket of water. Turned to 2 inch line. Gas to surface at 09.04 hrs. Turned to 1/4 inch orifice-1 1/2 lbs (21 MCF) Peaking at 3 lbs (24.0 MCF) then decreasing to 2 1/2 pounds.
 Closed Tool at 09.58 hrs.
 Opened Tool at 10.58 hrs with strong blow-turned to 1/4 inch orifice-(1 1/2 lbs-21 MCF) Peaked at 10 lbs (34.0 MCF) Sursing-Sursed for remainder of flow period. Mud and Oil to surface at 12.25 hrs.
 Closed Tool at 13.10 hrs.
 Pulled off bottom at 13.55 hrs.

TEST SUCCESSFUL

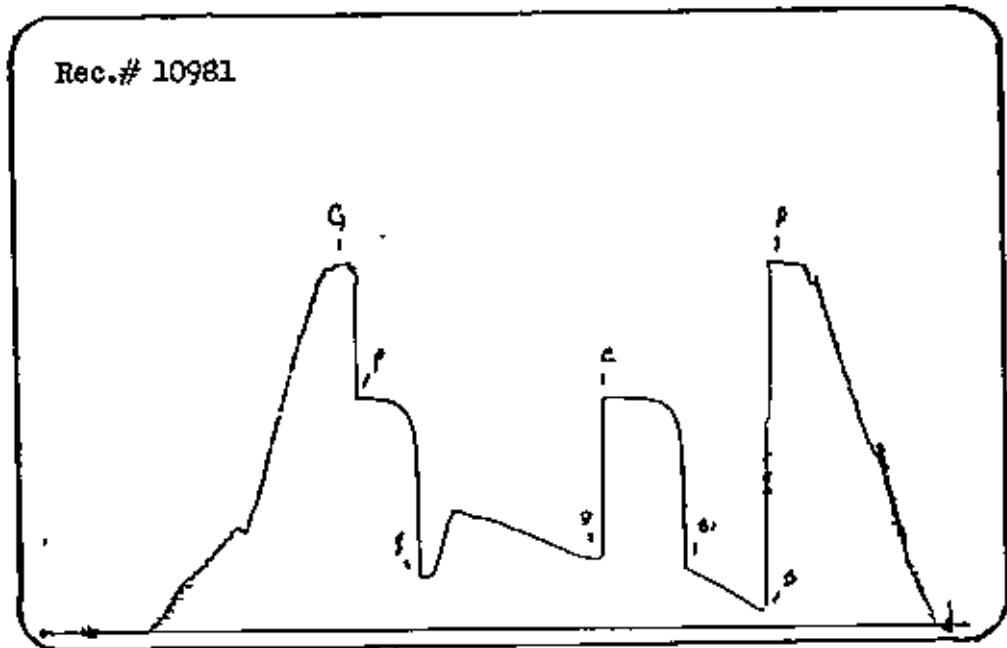
NAME: Field #1-34 DATE: 25-03-82
 LOCATION: Sec.34-T29N-R6W TK#: 863 DST#: Two

TIME	CHOKE SIZE in.	SURFACE PRESSURE lbs.	FLOW RATE MCF/D	LIGUID	REMARKS
09:04 00:00					Gas to surface.
09:14 00:00	1/4	2 1/2	23.0	None	Increasing slightly.
09:24 00:00	1/4	2 1/2	23.0	None	As above.
09:34 00:00	1/4	3	24.0	None	Peaked.
09:44 00:00	1/4	2 1/2	23.0	None	Holding steady.
09:54 00:00	1/4	2 1/2	23.0	None	As above
09:58 00:00					Closed tool
10:58 00:00					Open tool
11:08 00:00	1/4	2 1/2	23.0	None	Starting to surge.
11:18 00:00	1/4	2.0	22.0	None	As above
11:28 00:00	1/4	1	21.0	None	As above
11:38 00:00	1/4	5 1/2	27.0	None	Surging at moderate rate.
11:48 00:00	1/4	6 1/2	29.0	None	As above
11:58 00:00	1/4	7 1/2	30.0	None	Surging between 7 1/2 & 1
12:08 00:00	1/4	1	21.0	None	As above
12:18 00:00	1/4	1/2			
12:25 00:00					Mud & Oil to surface—took out chokes unloading hole—very highly gas cut.
13:10 00:00					Closed tool
13:55					Pulled off bottom.

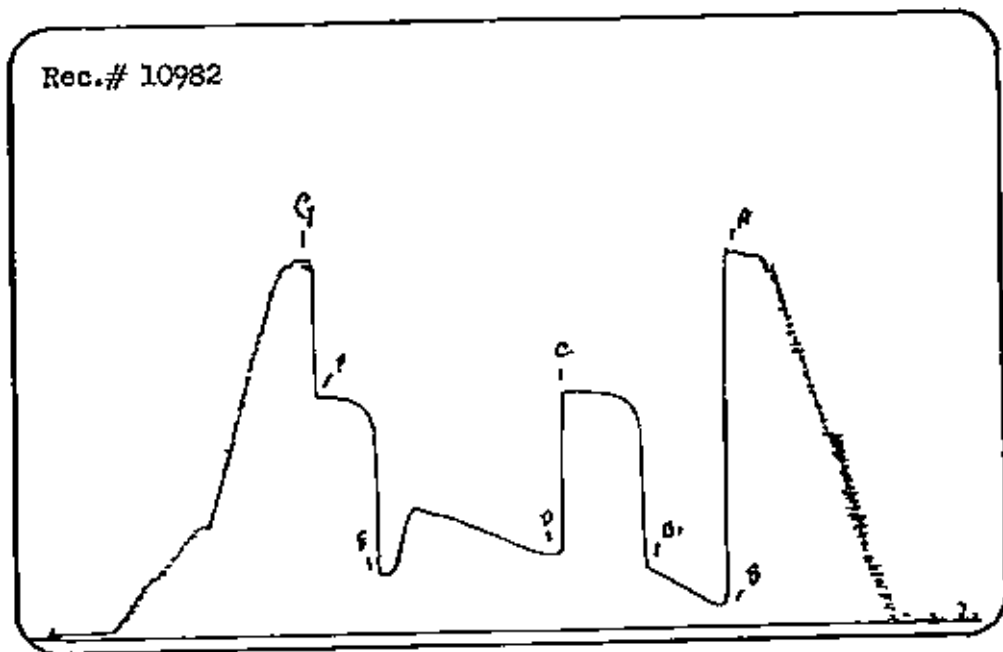
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Field # 1-34 Sec.34-T29N-R6W T.# 863 DST.# 2

Rec.# 10981



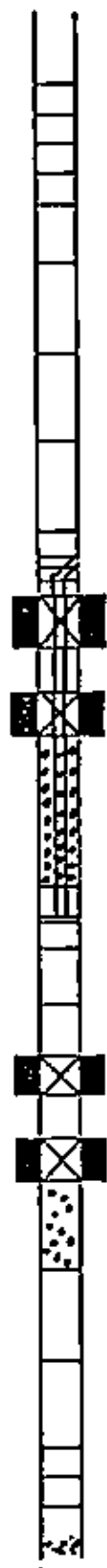
Rec.# 10982



2

NAME: Field #1-34 DATE: 25-03-82
 LOCATION: Sec.34-T29N-R6W TK#: 863 DST#: Two

	O.D. INCHES	I.D. INCHES	LENGTH FEET	DEPTH FEET
Drill Pipe	3.50	2.76	2881.00	
Reverse sub	5.75	2.50	1.00	
Water Cushion Valve				
Drill Collars	2.50	2.25	505.00	
Double Pin	6.00	2.25	.90	
Sampler	5.00	.75	81.00	3395.00
Shut-in Tool				
Hydraulic Valve	5.00	.75	5.00	3400.00
BT Case	5.00	2.69	5.00	3402.00
Jars	5.00	1.00	5.00	
Safety Joint	4.75	2.69	1.75	
Equalization Adapter				
PACKER ASSEMBLY XL 1	6.75	1.50	8.56	3420.00
PACKER ASSEMBLY 2				
Equalization Pipe				
Perforated Anchor Adapter	5.00	2.50	10.00	
Blanked off BT Gauge				
PACKER ASSEMBLY 3				
PACKER ASSEMBLY 4				
Perforated Anchor				
Side Wall Anchor				
Drill Collars				
Drill Pipe				
Blanked OFF BT Case	5.00	0.00	4.23	3431.00
T.D.				3435.00



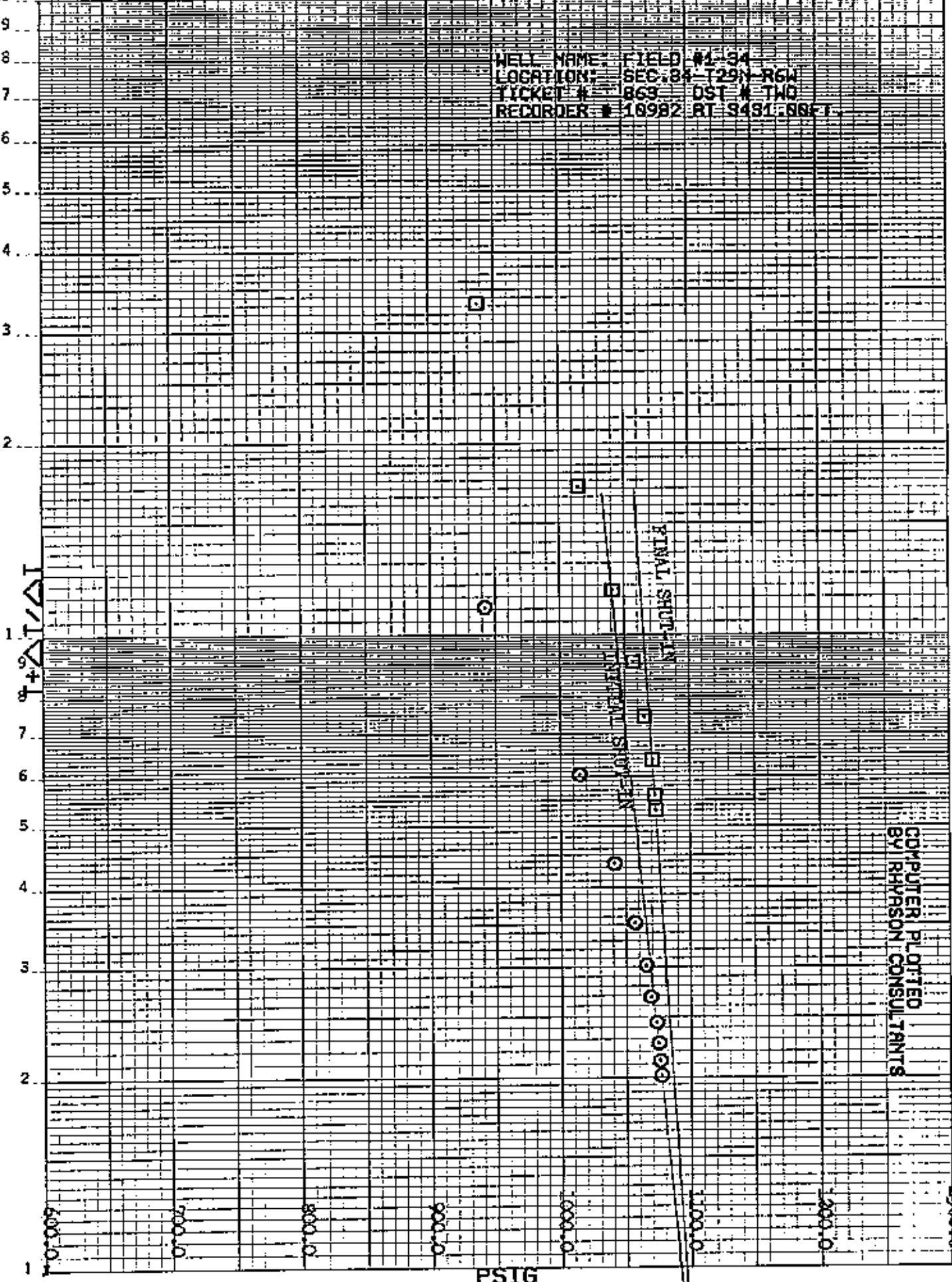
2

K&E SEMI-LOGARITHMIC #2 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 4970

HORNER

WELL NAME: FIELD #1-34
LOCATION: SEC. 84 T29N R6W
TICKET # 869 DST # TWO
RECORDER # 18982 RT 9491-8851



COMPUTER PLOTTED
BY RHYSON CONSULTANTS

PSIG
#2

WELL NAME & LOCATION : FIELD #1-34 SEC.34-T29N-R6W
 TICKET# 863 DST# TWO
 RECORDER #: 10982 AT 3431.00 FT.

TO = : 60

T = : 192

INITIAL SHUT-IN TIME	$\frac{10+\Delta T}{\Delta T}$	PSIG	KPA	PSIG ² 10 ⁶	*	FINAL SHUT-IN TIME	$\frac{T+\Delta T}{\Delta T}$	PSIG	KPA	PSIG ² 10 ⁶
0	-	276.2	1904	.076	*	0	-	262.4	1809	.069
6	11.00	843.2	6503	.890	*	6	33.00	838.0	6467	.880
12	6.00	1016.3	7007	1.033	*	12	17.00	1016.3	7007	1.033
18	4.33	1043.0	7191	1.088	*	18	11.67	1042.1	7185	1.086
24	3.50	1058.3	7288	1.120	*	24	9.00	1058.3	7288	1.120
30	3.00	1067.0	7356	1.138	*	30	7.40	1066.2	7351	1.137
36	2.67	1070.4	7380	1.146	*	36	6.33	1072.1	7391	1.149
42	2.43	1074.7	7409	1.153	*	42	5.57	1073.9	7404	1.153
48	2.25	1076.5	7422	1.159	*	45	5.27	1074.7	7409	1.153
54	2.11	1077.3	7427	1.161	*					
60	2.00	1078.2	7433	1.163	*					

DATA

	INITIAL SHUT-IN	FINAL SHUT-IN
NO. OF INCREMENTS-----	10	8
NO. OF POINTS EXTRAPOLATED-----	4	3
SLOPE OF EXTRAPOLATED LINE-----	48	31
EXTRAPOLATED PRESSURE-----	1092.00 PSI	1096.00 PSI

RESERVOIR PROPERTIES

INTERVAL-----	15	FEET
RESEVOIR TEMPERATURE-----	77	F
TOTAL FLOW TIME-----	192	MIN.
FINAL FLOW PRESSURE-----	262.40	PSI
GROUND ELEVATION-----	4035	FT.
RECORDER#10982 DEPTH-----	3431	FT.
POROSITY-----	-	%
D.C. RECOVERY-----	505	FT. OF GAS CUT OIL
D.P. RECOVERY-----	365	FT. OF GAS CUT OIL

CALCULATION RESULTS

DAMAGE RATIO = 5.45 ** IMPERIAL

--OIL RECOVERY--

TRANSMISSIBILITY-----	165.42	MD-FT/CP
AVERAGE PERMABILITY-----	11.03	MD
INSITU CAPACITY-----	165.45	MD-FT
RADIUS OF INVESTIGATION-----	46.02	FT.
POTENTIOMETRIC SURFACE-----	1926.66	FT.
PRODUCTIVITY INDEX-----	.06	BBL/DAY-PSI
TEST PRODUCTION OIL-----	48.52	BBL/DAY

EST'D RECOVERY DAMAGE REMOVED-- 264.43 BBL/DAY

COMPUTATIONS BY RHYASON CONSULTANTS
 PH: 265-6788

MONTANA OIL WELL CEMENTERS, INC.

RADIO DISPATCHED UNITS

P.O. Box 226, Cut Bank, Montana 59427
(406) 873-4211 & Havre: (406) 265-4402

PHONES: 873-4211
Cut Bank 873-2628
Havre 265-4402
Mobile 873-4702

12 376

ACIDIZING WORK ORDER & INVOICE

Remit to P.O. Box 226, Cut Bank, Montana 59427

HFE # 282-304-1223

District C.B. Date 4-29-82 P.O. No. _____ Treatment Log. No. 265
Company Oxy. Petroleum Inc.
Mail Invoice To 999 17th 1st Denver Place
Address Denver Colo 80202
Lease & Well No. Field 1-34 Job Started 8:00 P.M. Job Completed 10:00 P.M.
County Denver State MT Field W.C. Section 34 Township 29 Range 6W

Type of Well: Workover Exploratory Development Other: (write in) _____

Treatment No. 1 Zone Madison

Hole Data: Bore Size _____ Total Depth _____ Rotary Cable Tool Air

Casing: New Used Size 5 1/2 Weight 17 Depth 3480 Type _____

Perforations: From 3424 - 3428 to _____

Treated Perfs.: From 3424 3428 to _____

Tubing or Drill Pipe: Size 2 7/8 Weight 6.5 Total Depth 3377

Packer Baker Full Bore Retractable Packer Set at 3377

Previous Treatment None

Reg. Acid—Gals. 1000 gal 15% HCL

Pressure 1500

Truck # 9 Mileage 40 Transport _____

Treater Ben Driver(s) Fred

Additives Inhibitor 100

Non-Emission

Iron Sequestering



TERMS: Cash at time of sale—Net 30 days to approved credit accounts. After 30 days accounts will be charged 1 1/2% per month service charge on unpaid balance. If necessary, to resort to legal action to collect any account such account will be charged with all collection costs—including reasonable attorneys fees.

CONDITIONS, WARRANTY AND RESPONSIBILITY: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor.

It is expressly understood that Montana Oil Well Cementers, Inc. shall not be responsible for damages or losses, direct, indirect, special, consequential, or of any kind whatsoever, occasioned by or incident to the use of Montana Oil Well Cementers, Inc. products and accessory equipment, or part thereof, whether resulting from the negligence of Montana Oil Well Cementers, Inc. or any of its agents, servants or employees.

The entire warranty or guarantee and responsibility, either expressed or implied, by Montana Oil Well Cementers, Inc. is expressed above and no agent, dealer or representative, connected with or employed directly or indirectly by Montana Oil Well Cementers, Inc. has authority to verbally or in written form alter, extend or exceed the warranties or guarantees and responsibilities expressed herein.

I have read, understand and accept the foregoing conditions, warranty or guarantee and responsibility and represent that I am authorized to sign this order as agent of the owner or contractor. I certify that the above material has been used; that the basis for charges are correctly stated; and that I am authorized to sign this memorandum as agent of owner or contractor.

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED

Owner or Contractor Oxy. Petroleum By [Signature]

Phones: 873-4211
873-2628
265-4402
Mobile: 873-4702

MONTANA OIL WELL CEMENTERS, INC.

P. O. Box 226 Cut Bank, Montana 59427

No. 10007

WORK ORDER & INVOICE

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED

District Cut Bank Date 3/27/82 Order No. _____ Req. No. _____
 Company Oxy Petroleum
 Contractor GENERAL WELL SERVICE RIG #21
 Lease and Well No. Field 1-34 Job Started: 1:00 P.M. Job Compl: 4:00 P.M.
 County and State ROCKWELL, MONT. Field W/C Section 34 Township 29N Range 2W
 Mail Invoice To Oxy Petro.
 Address 123 W 1st St SE 2209 Casper, Wyo

Type of Well: Workover Exploratory Development Other
 Type of Job: Sur. Inter. Prod. Squeeze Pumping P & A
 P. B. Other (Write In) _____
 Casing: New Used Size 5 1/2" Weight 17.10 Depth 3487' Type _____
 Hole Data: Bore Size: 7 7/8" Total Depth 3485' Rotary Cable Tool
 Tubing or Drill Pipe: Size _____ Type _____ Weight _____ Total Depth _____
 Cementing Packer: Size _____ Type _____ Weight _____ Depth Set _____
 Type Float Equipment: GUIDE SHOE, DOPP FILL COLLAR, 1 LOK RING, 17 CENT.

P & A Data: _____ No. Sacks _____
 Plug No. 1 - From _____ To _____ Plug No. 5 - From _____ To _____
 Plug No. 2 - From _____ To _____ Plug No. 6 - From _____ To _____
 Plug No. 3 - From _____ To _____ Plug No. 7 - From _____ To _____
 Plug No. 4 - From _____ To _____ Plug No. 8 - From _____ To _____
 Others _____
 Cement Data: Bulk Sacked Mixed Wt. Per Gal. _____ Sacks _____ Type _____
 Admix 130sx mont. lite cement 70sx CLASS C 14.5 PPG
 Plugs & Heads: Top Plug 5 1/2" Type POWER; Bottom Plug _____ Type _____ Type Head _____
 Pressure: Circulating _____ Minimum _____ Maximum 200

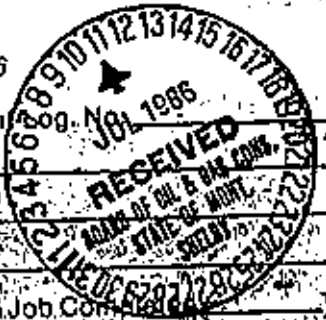


Displacement Data: Displaced with _____ Barrels Plug back at _____
 Remarks: Pump 10 BBS and flush 10 BBS HD ahead of 130 SX MONT. LIGHT CEMENT followed by 70 SX TYPE C. which mixes & DISAPPEARS with 80 BBS HOT WATER. Pump plug with 800 PSI. float did hold.

WORK ORDER & INVOICE

Remit to P.O. Box 226, Cut Bank, Montana 59427-0226

District _____ Date 5-18-82 P.O. No. _____ Treatment _____
 Company Frank's Oil Co
 Mail Invoice To IT FEMIN
 Address Cut Bank MT
 Lease & Well No. Field 1-34 Job Started _____
 County Carbon State MT Field W/C Section _____ Township _____ Range _____



Type of Well: Workover Exploratory Development Zone Production Line
 Hole Data: Bore Size _____ Total Depth _____ Rotary Cable Tool Air
 Casing: New Used Size _____ Weight _____ Depth _____ Type _____
 Perforations: From _____ To _____ From _____ To _____ From _____ To _____
 Treated Perfs: From _____ To _____ From _____ To _____ From _____ To _____
 Tubing or Drill Pipe: Size 2 7/8 Weight 6.7 Total Depth 3443'
 Packer SIC Set at 3383
 Previous Treatment _____
 Reg. Acid - Gals 500 yellow 200 HCL
 Pressure 1000
 Truck ATV Mileage 37 Transport _____ Mileage _____
 Treater BEN Driver(s) JUD
 Additives Turbidizer - SURETREAT

Phones: 873-4211
873-2628
265-4402
Mobile: 873-4702

MONTANA OIL WELL CEMENTERS, INC

P. O. Box 226 Cut Bank, Montana 59427

WORK ORDER & INVOICE

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED



District: Cut Bank Date: 3/19/82 Order No. _____
Company: Oxy Petroleum Inc.
Contractor: GENERAL VIEW SERVICE Rig #21
Lease and Well No.: Field 1234 Job Started: 3:45 P.M. Job Comp: 4:15 P.M.
County and State: POUNDERA, MONT. Field: WIC Section: 24 Twp: 24N Range: 6W
Mail Invoice To: Oxy Petroleum, GENERAL VIEW SERVICE
Address: PO Box 300 - Cut Bank, Montana

Type of Well: Workover, Exploratory, Development, Other
Type of Job: Sur., Inter. Prod. Squeeze Pumping P & A
P. B. Other (Write In) _____

Casing: New Used Size: 8 5/8" Weight: 211 lb Depth: 178' Type: RL
Hole Data: Bore Size: 10 1/4" Total Depth: 175' Rotary Cable Tool
Tubing Or Drill Pipe: Size _____ Type _____ Weight _____ Total Depth _____
Cementing Packer: Size _____ Type _____ Weight _____ Depth Set _____
Type Float Equipment: GUIDE SHOE, INSERT FLOAT, 3 CENTRALIZERS, 1 LOCK-RING

P & A Date:	No. Sacks	No. Sacks
Plug No. 1 - From _____ To _____		Plug No. 5 - From _____ To _____
Plug No. 2 - From _____ To _____		Plug No. 6 - From _____ To _____
Plug No. 3 - From _____ To _____		Plug No. 7 - From _____ To _____
Plug No. 4 - From _____ To _____		Plug No. 8 - From _____ To _____

Others _____
Cement Data: Bulk Sacked Mixed Wt. Per Gal. 14.5 Sacks 100 Type C Brand DEEM
Admix: 3% CAC
Plugs & Heads: Top Plug 8 5/8" Type RUBBER; Bottom Plug _____ Type _____ Type Head _____
Pressure: Circulating _____ Minimum _____ Maximum _____

Displacement Data: Displaced with _____ cu. ft. 8.5 Barrels Plug back at _____
Remarks: Pump 10 BBL H₂O ahead of Cement. Displace with 8.5 BBL H₂O. Pump plug with 1500 PSI. Blank did hold.

Thankyou



GAMMA RAY - *John*
CCL LOG *Field*

Company Altamont Oil & Gas, Inc.
Well Altamont/Jody Field #14-34
Field Wildcat
County Pondera
State Montana

Company ALTAMONT OIL & GAS, INC.
Well ALTAMONT/JODY FIELD #14-34
Field WILDCAT
County PONDERA
State MONTANA

Location

SEC. 34 TWP. 28N RGE. 6W
990' FSL & 1650' FWL
34W

Other Services

NONE

Permanent Datum GROUND LEVEL Elevation 4033'
Log Measured From FIVE FEET ABOVE PERM. DATUM
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4054'
G.L. 4049'

Date 06-OCTOBER-2008

Perforated Intervals

Run Number	Log Type	Gun Type	Size	From	To
	GAMMA RAY/CCL				
	Depth - Driller	From			@
	Depth - Logger	From			@
	Bottom Interval	From			@
	Top Interval	From			@
	Fluid in Hole	From			@
	Level	From			@
	Wellhead PSI	From			@
	Equipment No.	From			@
	Witnessed By	From			@
	Recorded By	From			@
	Invoice No.	Size	Weight	From	To
	JOHN BROWN	7.00"	17.0#	Surface	161'
	Bitsize #1	4.50"	9.5#	Surface	3405'
	Bitsize #2				
	Cement Time				
	API Number				
	AFE Number				

Tubing Record

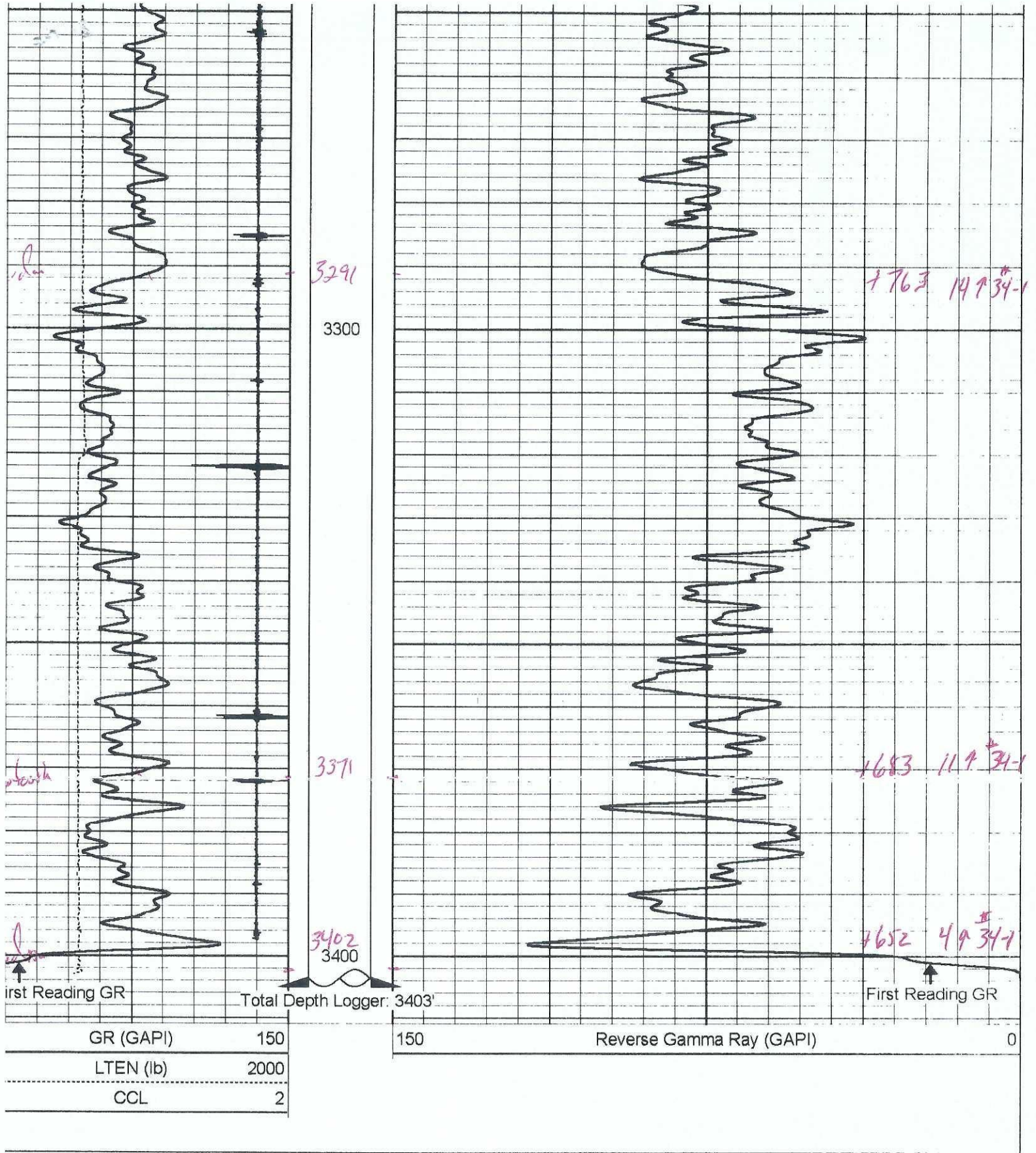
Other Services

Interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Measurement Type: Logged From Kelly Bushing Measurement.
Remarks:

THANK YOU FOR CHOOSING COMPETITION WIRELINE SERVICES.

YOUR CREW TODAY HAS BEEN: STARBUCK SEIFERT & AARON BROWN



Repeat Section

Database File: 15637gr.db
 Dataset Pathname: pass1

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 14-34
SESW Section 34-T29N-R6W
(990' FSL – 1650'FWL)
Glacier County, Montana
API No. 25-073-21740

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: August 27, 2008
Completion Date: August 30, 2008
Status: Madison Sun River Dolomite "Wildcat Oil Well Discovery"
Elevation: 4049' GR. 4054' KB.
Total Depth: 3415' Driller
Casing: Ran 4 joints 7", 17#/ft, lrd, 8rd, ST&C, Rge 3 (164.0') set @ 161.0 KB cemented with 50sx Class G cement, 3% Calcium Chloride
Ran 83 joints 4 1/2", 9.5#/ft, 8rd, ST&C, Rge 3 (3412') set @ 3405' KB cemented with 50 sx Class G
Contractor: Sundance Exploration LLC Rig No.5
Type Rig: Ingersoll- Rand (Tophead Drive)
Mud Pump: Oilwell 214P (6" x 14")
Air Compressor: Ingersoll- Rand (1250mmcf 350psi)
Air Program: Surface to 3415'
Mud Program: None
Hole Size: 8 3/4" (0-165') 6 1/4" (165' - 3415')
Size Drill Pipe: 4 1/2" O.D. x 4" I.D. (16.60 #/ft.)
Size Drill Collars: 4 3/4" O.D. x 2 1/8" I.D. (121')
No. Drill Collars: 4 = 121'
Sample Intervals: None
Sample Quality: None
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 3 7/8" hole with air mist from surface to 3415'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

No Logs Run.

Mud Summary

None

Bit Record

No.	Size	Make	Type	Interval	Footage	Hours	Jet Size	Serial No.
1	6 1/4"	HTC	STX-20	0 - 77	77	3.00	open	ER8776
2	3 7/8"	HTC	ER-20	77-3415	3338	18.75	open	none

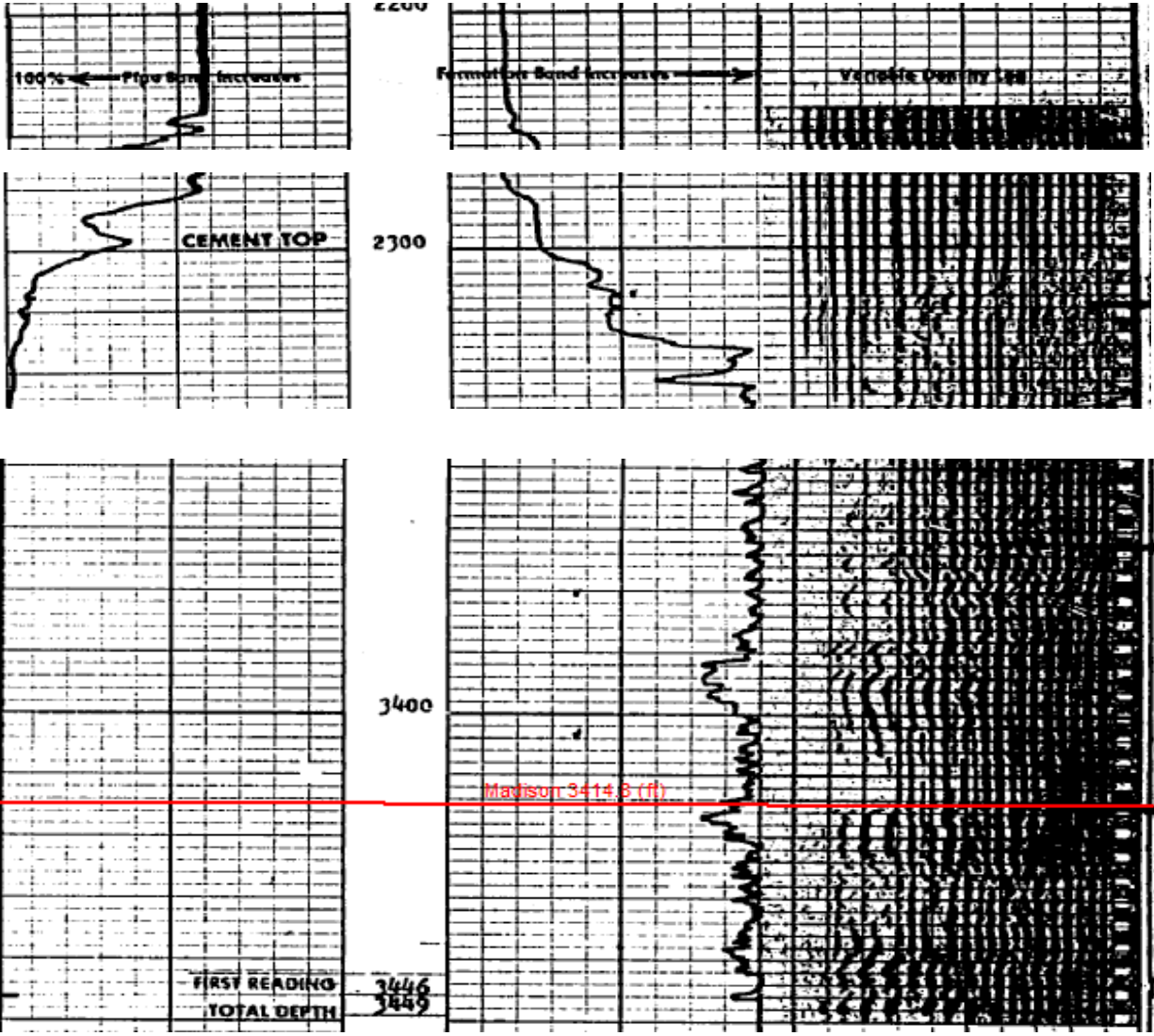
Daily Activity Summary (Calendar Days)

- August 27,2008 Moved in and Rigged up Sundance Exploration LLC Rig No. 2. Spud 6 ¼" hole at 11:45A.M. Drilled 6 ¼" hole with air mist from 0' to 77' inside 7" surface casing. Drilled 3 7/8" hole with air mist inside the 4 ½" casing. Lower camera inside 7" casing. Trip tubing into the hole and place 2 gallons of 28% Hel inside 4 ½" casing. Lower camera inside 7" casing and concluded 4 ½" casing to be clean.
- August 28,2008 T.D. 77'. Load 4 ½" casing. Unload and strap 4 ½" casing. unload 2 3/8" tubing. Rig up 7" x 4 ½" wellhead. Trip In 4 ½" casing and sting into casing. Pulled 5000#/s on 4 ½" casing and set in slips. Nipple up diverter head. Drilled 3 7/8" hole with air mist from 77' to 2400'.
- August 29,2008 Drilled 3 7/8" hole with air mist from 2400' to 3415'. Total Depth 3415' by operator. Repair rig.
- August 30,2008 T.D. 3415. Start and warm rig. Blow well down and recovered highly oil cut water. Set tubing in slips. Rigged down. Report Ends.

PRAIRIE

Seismogram Cement Bond Log

FILE NO.	COMPANY	OXY PETROLEUM, INC.	
WELL	#1-34 FIELD	APR 28 1982	
FIELD	Wildcat	GROOKER SPRINGS	
COUNTY	PONDERA	STATE MONTANA	
LOCATION:	1700 FSL 1300 F.V.L.	OTHER SERVICES	
	SEC 34 TWP 29N R06E 6W	CAMA RAY PERFORATE.	
MEASUREMENT DATE	C.O.L.	ELEV.	4033
LOG MEASURED FROM	WELVE	FT. ABOVE PERM DATUM	
DRILLING MEASURED FROM	K.B.	ELEV. K.B. 4033	
DATE	APRIL 28, 1982	R.P.I. #073-21609	Q.L.
RUN NO.	710	SHOT	No. of Intervals
TYPE LOG	CEMENT BOND/VDL	DENSITY	From To
DEPTH - DRILLER	3185		
DEPTH - LOGGER	3109		
LOGGED INTER.	3106		
TOP LOGGED INTER.	2160		
FLUID IN HOLE	WATER		
LEVEL	300		
TRUCK NO.	BYE		
OPER. RIG TIME	1 1/2 HOURS		
RECORDED BY	BROWN		
WITNESSED BY	PAYNE		



LOCATE WELL CORRECTLY

		34	
		o	

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease FIELD Well No. 14-34

Address PO BOX 488 - CUT BANK MT 59427 Field (or Area) WILDCAT

The well is located 990' ft. from (S) line and 1650' ft. from (W) line of Sec. 34

Sec. 34; T. 29N; R. 6W; County PONDERA; Elevation 4049' GL
(D.F., R.B. or G.L.)

Commenced drilling August 27, 2008, ~~1998~~; Completed August 30, 2008, ~~1998~~

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)

Signed *Patrick M. Montalban*
PATRICK M. MONTALBAN

API# 25-073-21740

Title PRESIDENT & CEO

Date SEPTEMBER 14, 2009

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From 3403 to 3415 - O & W From _____ to _____
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	161' KB	0	161'	50 Sacks	Class G Cement 3% CaCl
4-1/2"	9.5#/ft	API	ST&C	3405' KB	161'	3405'	50 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7#/ft	J55	ST&C	108 jts	None

COMPLETION RECORD

Rotary tools were used from 0 to 3,415'

Cable tools were used from _____ to _____

Total depth 3,415 ft.; Plugged back to _____ T.D.; Open hole from 3405 to 3,415'

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
		None			None	

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Madison/Sun River (pool) formation.

I.P. 5 barrels of oil per 24 hours (pumping or flowing)

5 Mcf of gas per 24 hours, or 5 barrels of water per 24 hours, or _____ % W.C.

Tops based on Kelly Busing Elevation 4054' KB:

Blackleaf	1764	+2290
Blackleaf Bentonite	1802	+2252
1st Bow Island	1862	+2192
2nd Bow Island	2011	+2043
3rd Bow Island	2119	+1935
4th Bow Island "A"	2354	+1700
4th Bow Island "B"	2398	+1656
Dakota	2521	+1533
Kootenai	2564	+1490
Sunburst Horizon	3079	+ 975
Morrison	3116	+ 938
Swift	3164	+ 890
Swift Shale	3237	+ 817
Rierdon	3291	+ 763
Sawtooth	3371	+ 683
Madison	3402	+ 652
Total Depth	3415	+ 639

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment B Geological and Geophysical Information

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- Figure 02. Northern Great Plains Aquifer System, Madison Formation Thickness
- Figure 03. Geologic Cross Section Location
- Figure 04. Geologic Cross Section
- Figure 05. Sun River Dolomite Porosity Isopach Map
- Figure 06. Northern Great Plains Aquifer System Stratigraphic Column
- Figure 07. Jody Field 34-1 Well Schematic
- Figure 08. Jody field 34-2 Well Schematic
- Figure 09. Thickness of underlying Devonian Confining Layer
- Figure 10. Map of Pondera County
- Figure 11. Seismic Map

EXHIBITS

- Exhibit A. Water Quality Analyses
- Exhibit B. Well Reports, Jody Field Wells 34-1 and 34-2

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1. GEOLOGY

The Madison Aquifer is part of the Northern Great Plains aquifer system, which extends across Montana, Wyoming, North Dakota, and South Dakota and lies beneath confining units in the proposed Underground Injection Control (UIC) area (**Figure 01**) (USGS, 1996). The Madison Aquifer in this area is comprised of the Mississippian Madison Limestone, which includes the Lodgepole Limestone, overlain by the Mission Canyon Limestone. The formations consist of marine carbonates and evaporites deposited in a shallow water environment (Downey, 1984). The Lodgepole Limestone consists mainly of fossiliferous to micritic dolomite and limestone units. The Mission Canyon Limestone consists of a coarsely crystalline limestone at its base, grading upward to finer crystalline limestone. The thickness of the Madison Limestone in northwestern Montana is mapped at approximately 1,000 to 1,200 feet as illustrated on **Figure 02** (Downey, 1984).

The Class II UIC wells (Jody Field wells 34-1 and 34-2) are completed within the Sun River Dolomite, the uppermost section of the Madison formation. The Sun River Dolomite ranges up to an average of approximately 200 feet thick in this area with the Mission Canyon and Lodgepole extending approximately 1,000 feet in thickness beneath that (Pasternack, 1988). A cross section was prepared based on well data gathered from BOGC records (**Figures 03 and 04**). As indicated in the cross section, the Sun River Dolomite, in close proximity to the proposed Class V UIC wells, is approximately 250 feet thick. The thickest injection interval in the existing Class II UIC wells is 90 feet thick.

The Sun River Dolomite has been studied extensively for its hydrocarbon production potential and has been determined to have an average porosity of 8 to 14% and average permeability of 10 to 82 millidarcy (md) with the highest values observed in the Pondera Field. **Figure 05** indicates the porosity values mapped in the Pondera field and surrounding areas. According to Pasternack (1988), two dominant porosity types are within the Sun River Dolomite: moldic porosity in discreet areas developed from dissolution of bioclastic debris and fracture porosity, which is evident throughout all areas of the Sun River Dolomite. Bioclastic debris is deposited as shallow marine bars oriented northwest-southeast. As indicated on **Figure 05**, the Jody Field wells are located within a bioclastic debris trend that intersects the Pondera and Highview Fields and have a bioclastic debris composition greater than 20%, inferring a high percentage of moldic porosity. The Class II Aquifer Exemptions established for this area by the Montana DOGC are based on a porosity in the range of 14% (Telephone conversation with George Hudak, July 2022) and confirmed in regional well logs.

2. UNDERGROUND SOURCES OF DRINKING WATER (USDWS) AND CONFINING ZONES

The Madison Aquifer is bounded by confining layers that separate it from the Lower Paleozoic and Lower Cretaceous aquifers (**Figure 06**).

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The Madison Limestone is overlain by the unconforming confining units of the Jurassic Ellis Group, which consists of the Swift, Rierdon and Sawtooth (Piper) formations. The Ellis Group forms a confining layer between the Mississippian and lower Cretaceous aquifers and is present above the Madison Sun River Dolomite as indicated in the UIC wellbore schematics for Jody Field Wells 34-1 and 34-2 (**Figures 07 and 08**).

According to USGS (2022), The Sawtooth formation in Western Montana consists of dark gray, platy to shaly, dense limestone with a local basal conglomerate. The Rierdon Formation includes gray, locally fossiliferous limestone that may contain quartz sand interbedded with greenish gray limy shale. The Swift Formation includes glauconitic, flaggy-bedded, commonly fossiliferous, fine-grained sandstone or sand coquina with dark gray shale interbeds. A dark gray, noncalcareous, micaceous shale forms the lower part of the formation, commonly with a basal chert pebble conglomerate or conglomeratic sandstone. Based on review of local well logs, the total thickness of the confining units within the Ellis group is over 220 feet.

Logs reviewed from oil and gas wells in the region indicate that the Sun River Dolomite ranges up to as much as 300 feet thick beneath the Ellis Group. Review of well logs from two nearby wells drilled deeper into the Madison indicate the presence of a dense, cherty unit with a minimum thickness of 108 feet to 147 feet directly beneath the Sun River Dolomite (API #25-073-05457 and API #25-073-05439). According to the well logs, this unit was documented to have low to no porosity.

The confining units beneath the Mississippian Madison Formation include Silurian and Devonian units consisting mainly of shaly carbonates, shale, and evaporites (**Figure 09**). Because of the fine-grained lithology and the presence of evaporites in the Silurian and Devonian units, these formations are considered to be confining beds between the Mississippian aquifer and the underlying Cambrian-Ordovician aquifer (Downey, 1984). Hydrologic modeling results of Downey (1984, 1986) indicate that vertical hydraulic conductivity between the Cambrian-Ordovician and Madison aquifers is less than 10⁻⁶ ft/d throughout the study area.

The Devonian Duperow formation, which is separated from the Madison Aquifer by the Three Forks, Potlatch and Nisku formations, has recently been classified as an underground source of drinking water (USDW) in central Montana due to intervals of total dissolved solids (TDS) concentrations less than 10,000 mg/L and greater than 3,000 mg/L. The thickness of the confining layer (Three Forks formation) in the proposed UIC area between the Madison and underlying Duperow aquifer is approximately 200 feet (Pasternack, 1988). Based on local well logs, the thickness of the Duperow Aquifer east of the UIC permit boundary is greater than 700 feet (**Figure 04**).

The proposed Class V UIC Wells are located in Pondera County, which measures 1,640 square miles and is located approximately 90 miles northwest of Great Falls, the third largest city in Montana with a population of 58,700 (**Figure 10**). The population of Pondera County has declined steadily over the past several decades and in 2022 had declined from 6,044 to 5,764 (Data USA, 2022). Agricultural production employed 45% of the County's labor force in 2017, and agricultural land accounted for 25% of the county's tax base (Montana State University, 2022). The median household income in 2020 was \$30,464 (Wikipedia, 2022).

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The local population is served by nine (9) small water systems that draw from shallow groundwater wells and local reservoirs, as well as privately owned shallow water wells. The Madison Aquifer is not currently used as a drinking water supply in the proposed UIC area. Most of the shallow Quaternary aquifers are comprised of unconsolidated alluvial deposits derived from the surrounding mountains (Noble, 1982b). According to Noble (1982b), these aquifers are primarily water-table aquifers and groundwater movement follows the topography in a downstream direction. Recharge to the shallow alluvial aquifers is primarily through rainfall and snowmelt. Deeper Tertiary aquifers in the area range from depths of 100 to 300 feet and include coarse grained interbedded sandstones, channel conglomerates, tuffs and siltstones (Noble, 1982b). Alluvial aquifers are the most used aquifers in the Great Plains region of Montana, due to their high yields and proximity to agricultural land (Noble, 1982a).

Details regarding the USDWs and Confining Units in the Area of Review (AoR) are provided in Table 1 below.

TABLE 1. USDWs in the AoR					
Formation	USDW or Confining Zone	Lithology	Thickness	Depth	TDS Concentrations
Quaternary and Tertiary Aquifers	USDW	Quaternary unconsolidated aquifers include alluvium, colluvium terrace deposits, eolian deposits, glacial deposits, high level gravels, and deeply weathered surface of some sandstone formations/Tertiary aquifers include coarse grained interbedded sandstones, channel conglomerates, tuffs and siltstones	Quaternary up to 200 ft/Tertiary <1,500 ft	Deeper Tertiary aquifers in the area range from depths of 100 to 300 feet	<3,000 mg/L in Quaternary Deposits and 500 mg/L to >5,000 mg/L in the lower Tertiary Deposits; The Fort Union Section has TDS concentrations ranging from <200 to >9,500 mg/L
Upper Cretaceous Aquifer -Hell Creek Formation and Montana Group (Fox Hills Sandstone)	USDW	Sandstone	Fox Hills approx. 300 ft, Hell Creek 500 to 1,100 ft	Approx. 300 ft to 1,800 ft	107 to 4,400 mg/L
Upper and Lower Cretaceous - Colorado Group (Colorado, Greenhorn, Blackleaf, Bow Island Formations)	Confining Zone	Mudstone-shale and Volcaniclastic	Approx. 750 ft	Approx. 1,800 ft	NA

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TABLE 1. USDWs in the AoR					
Formation	USDW or Confining Zone	Lithology	Thickness	Depth	TDS Concentrations
Lower Cretaceous Aquifer - Dakota Sandstone, Kootenai Formation (Sunburst)	USDW	Sandstone	Approx. 500-700 ft	Approx. 2500 ft	Ranges depending on location – observed at 7,000 to 12,000 mg/L (Well MT51141-07750)
Jurassic Ellis Group (Morrison, Swift, Rierdon, Sawtooth)	Confining Zone	Dense shale, silty shale and siltstone	>220 ft	Approx. 3200 ft	NA
Mississippian Madison Aquifer	USDW	Sun River Dolomite with good porosity underlain by dense, cherty upper section of Mission Canyon Limestone. Lower Mission Canyon and Lodgepole have intermittent dense, tight sections, interbedded with more transmissive units.	Sun River Dolomite: approx. 250 ft, underlain by a dense cherty unit of the Mission Canyon, approx. 108-147 ft thick	Approx. 3440 ft	5,440 mg/L (API # 25-073-21740)
Devonian Three Forks Formation (Devonian)	Confining Zone	Dense, tight limestone and shale (approx. 60 ft underlain by interbedded shale and anhydrite)	Up to 200 ft	Approx. 3800 ft to 4190 ft	NA
Devonian Duperow Aquifer	USDW	Dense, tight crypto to microcrystalline dolomite with poor to fair porosity	>700 ft	Approx. 4,500 ft	9,470 to 13,800 mg/L (API # 25-073-21523)
(Sources: Noble, 1982a; Flight, 2004; Fowler, 2020)					

3. WATER QUALITY

The primary minerals within the Madison Limestone include calcite, dolomite, and anhydrite, with dissolution of anhydrite and dolomite largely contributing to the water quality throughout the aquifer (Busby, 1991). The presence of hydrogen sulfide odor in the wells analyzed by the USGS was also noted during sampling and was determined to be due in part to a terrigenous source of sulfur, which has been noted in the proposed UIC area (Telephone conversation with George Hudak, July 2022).

Due to the presence of anhydrites, the TDS concentrations in the Madison Aquifer vary greatly from less than 1,000 mg/L to greater than 300,000 mg/L, depending on the location within the formation and groundwater flow characteristics (Downey, 1984). According to George Hudak, UIC

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Coordinator, Montana BOGC, the TDS concentration in the proposed UIC area ranges above 5,000 mg/L.

The Montana Bureau of Mines and Geology mapped TDS concentrations in the immediate surrounding areas. The data were collected from oil tests or production wells between 1920 and 1977 and indicated TDS concentrations in the Sun River Dolomite ranging from around 4,490 to 6,660 mg/L and TDS concentrations in the Madison Formation ranging from around 3,240 to 7,100 mg/L (Feltis, 1980b). A water sample collected from Well 14-34 (API #25-073-21740), which is centrally located within the UIC area, indicated a TDS concentration of 5,440 mg/L (Exhibit A). A water sample collected from Well 4-1 (API#25-073-21824) indicated a calculated TDS concentration of 5,109 mg/L (Exhibit A).

Details regarding water quality in the known USDWs in the AoR are summarized in Table 1. Regional groundwater flow direction through the southern and eastern portion of the Madison Aquifer is northeastward (USGS, 1996). A potentiometric surface map generated by the Montana Bureau of Mines and Geology based on local oil and gas well data indicates a northward groundwater flow direction in the vicinity of the UIC wells (Feltis, 1980a). The proposed UIC area is located on the western edge of the Great Plains, west of the Sweetgrass Arch and east of the Intermountain Seismic Belt. **Figure 11** indicates that the proposed UIC area is located several miles east of mapped faults in an area with low earthquake risk. No mapped or known faults lie within the AoR. Depth to basement from the base of the Sun River Dolomite is estimated to be over 2,000 feet (Figure 04).

4. FORMATION DATA

Well records for the Jody Field wells (Exhibit B) indicate that the bottom hole fluid pressure is 1,096 psi with a temperature of 77° F. Fracture pressures are included in the workover reports provided in Exhibit B.

Formation fluid water quality data was collected within the proposed area-wide UIC permit boundary during drilling of Well No. 4-1 in 2007. The formation fluid was reported to have a pH of 7.5, specific gravity of 1.007, a measured conductivity of 8,480 µmhos/cm and a calculated TDS concentration of 5,109 mg/L. The water analysis report for Well 4-1 is included in Exhibit A.

The injection zones are completed within the Sun River Dolomite, the uppermost section of the Mississippian Madison Formation. As discussed in Section 1 (Geology), the Sun River Dolomite within the area-wide UIC permit boundary appears to have a bioclastic debris composition greater than 20%, resulting in a porosity in the range of 14% which is consistent with field observations. The receiving formation is composed predominantly of a vugular dolomite (CaMg(CO₃)₂) with locally interbedded anhydrites (CaSO₄). The dolomite is typically associated with minor quantities of goethite (FeOOH), hematite (Fe₂O₃), and quartz (SiO₂) (Busby, 1991).

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5. REFERENCES

Busby John F, et al., Geochemical Evolution of Water in the Madison Aquifer in Parts of Montana, South Dakota, and Wyoming, U.S. Geological Survey Professional Paper 1273-F, 1991

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Feltis, R.D., Potentiometric Surfacc Map of Water in the Madison Group, Montana, Montana Bureau of Mines and Geology, Hydrogeologic Map 2, 1980a

Feltis, R.D., Dissolved-Solids and Ratio Maps of Water in the Madison Group, Montana, Montana Bureau of Mines and Geology, Hydrogeologic Map 3, 1980b

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Noble, Roger A., et al, Occurrence and Characteristics of Groundwater In Montana, Volume 2, The Rocky Mountain Region, Montana Bureau of Mines and Geology, 1982b

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Privileged and Confidential

FIGURES

- Figure 01. Aquifers and Confining Units of the Northern Great Plains Aquifer System
- Figure 02. Northern Great Plains Aquifer System, Madison Formation Thickness
- Figure 03. Geologic Cross Section Location
- Figure 04. Geologic Cross Section
- Figure 05. Sun River Dolomite Porosity Isopach Map
- Figure 06. Northern Great Plains Aquifer System Stratigraphic Column
- Figure 07. Jody Field 34-1 Well Schematic
- Figure 08. Jody field 34-2 Well Schematic
- Figure 09. Thickness of underlying Devonian Confining Layer
- Figure 10. Map of Pondera County
- Figure 11. Seismic Map

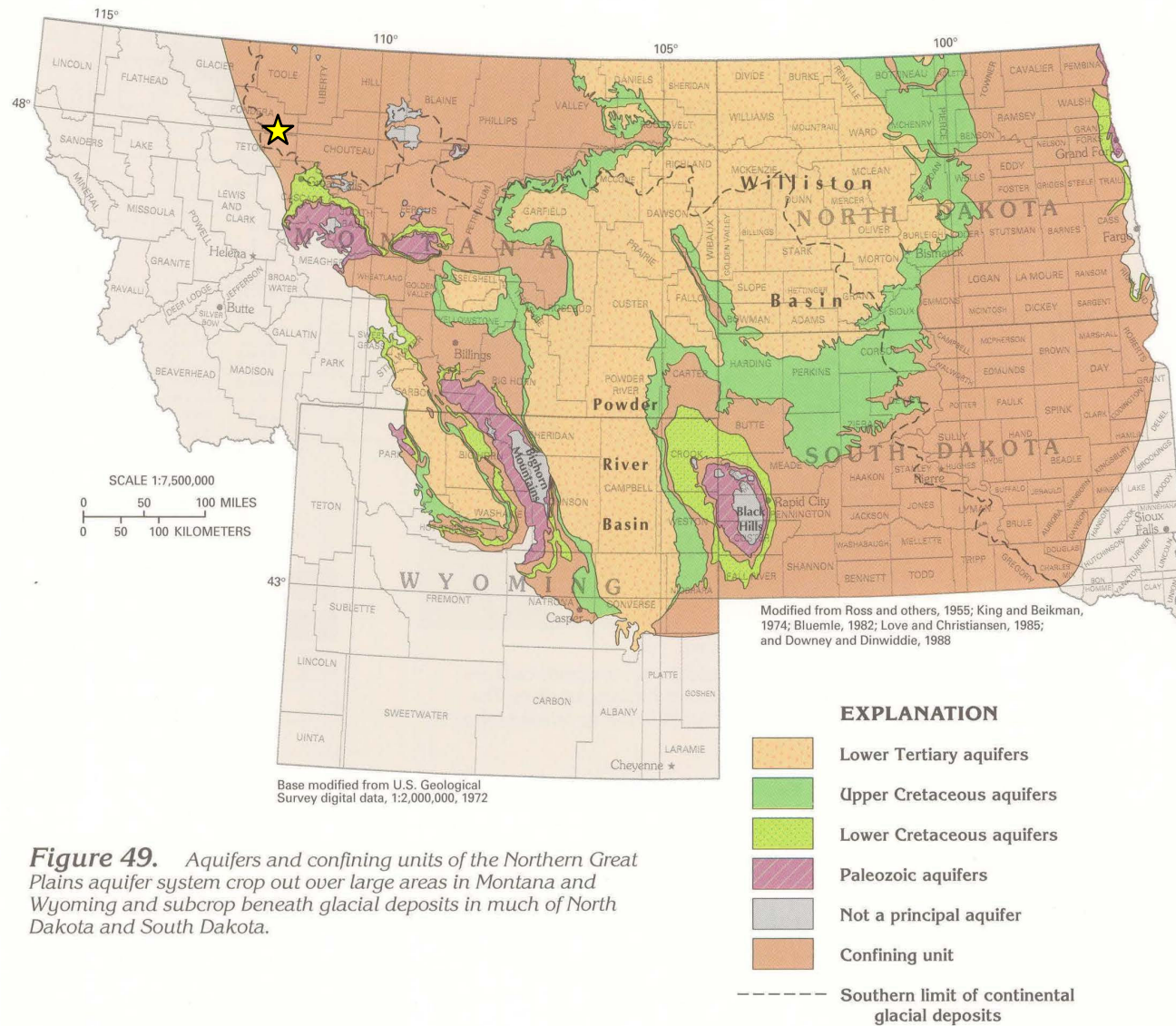


Figure 49. Aquifers and confining units of the Northern Great Plains aquifer system crop out over large areas in Montana and Wyoming and subcrop beneath glacial deposits in much of North Dakota and South Dakota.

Geohydrology of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 730-I; Figure 49

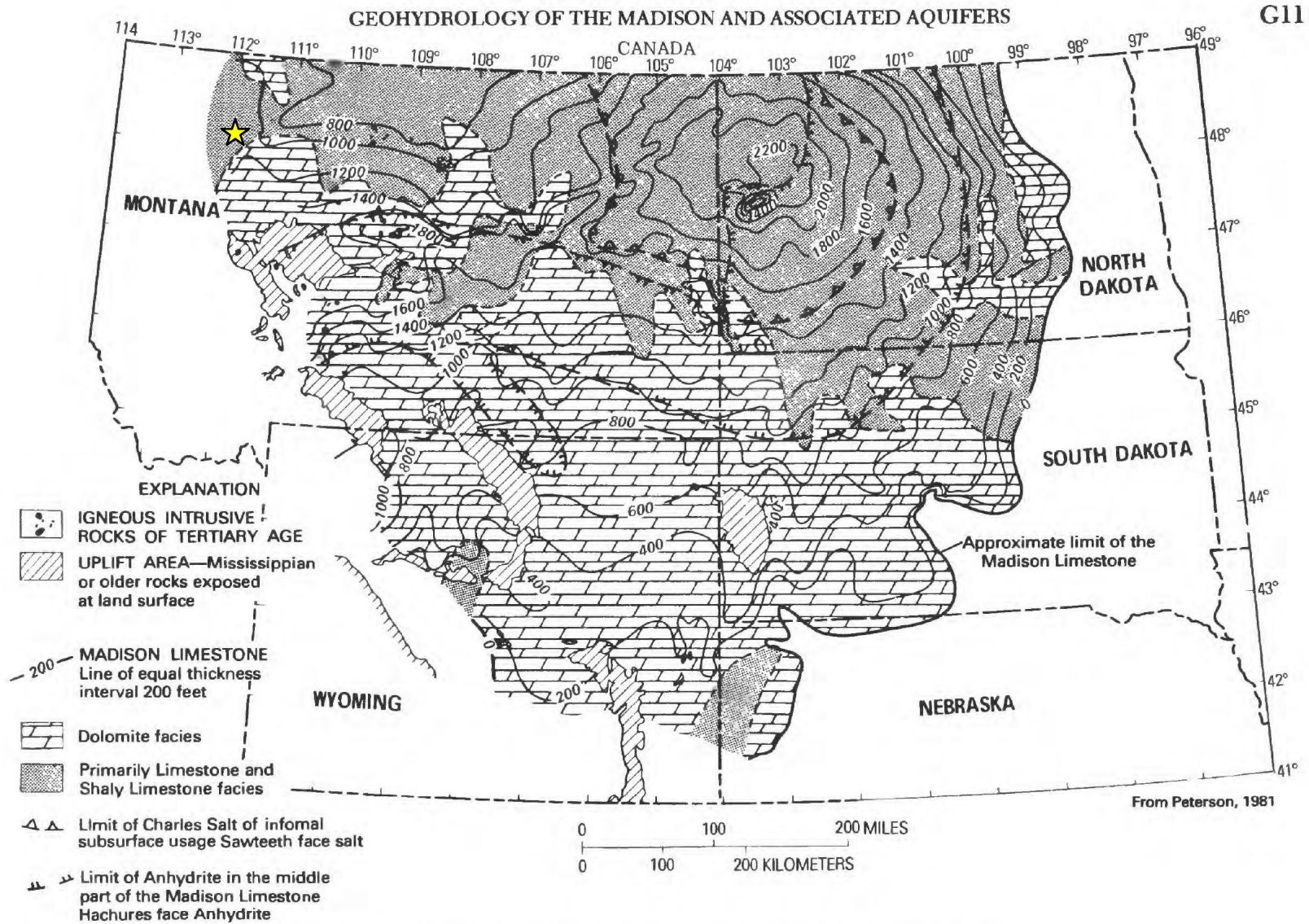
AQUIFERS AND CONFINING UNITS OF THE NORTHERN GREAT PLAINS AQUIFER SYSTEM

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS

Attachment B FIGURE 01

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





Geography of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 1273-G; Figure 11

**NORTHERN GREAT PLAINS
AQUIFER SYSTEM - MADISON FORMATION THICKNESS**

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE UIC
APPLICATION
JODY FIELD WELLS**

**Attachment B
FIGURE 02**

RAMBOLL US CONSULTING, INC.
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G11



Service Layer Credits: Hybrid Reference Layer: Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA

Well Location

- Active Injection
- P&A - Approved
- Shut In
- Dry Hole
- Oil

- Cross Section
- Area-Wide UIC

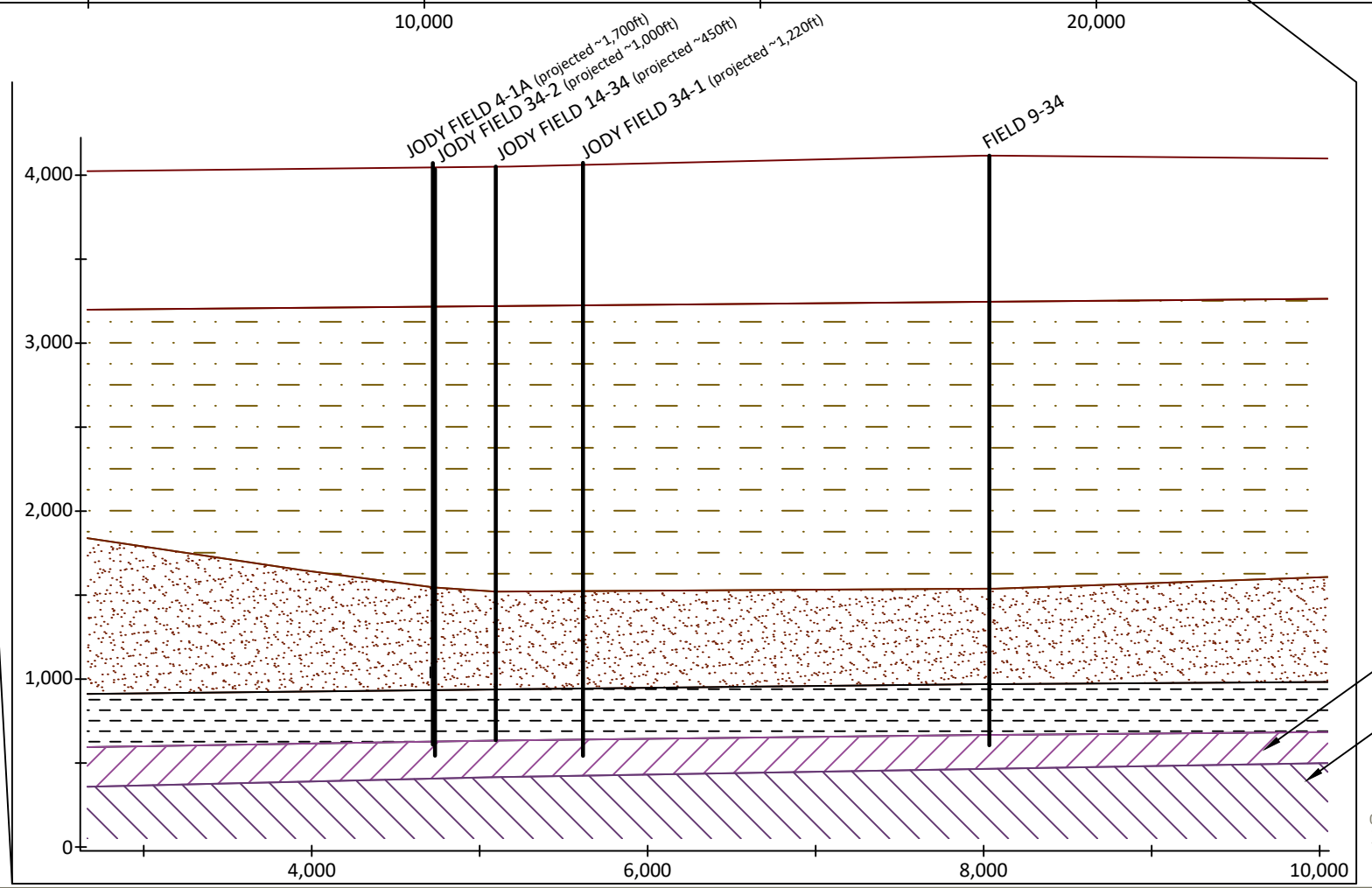
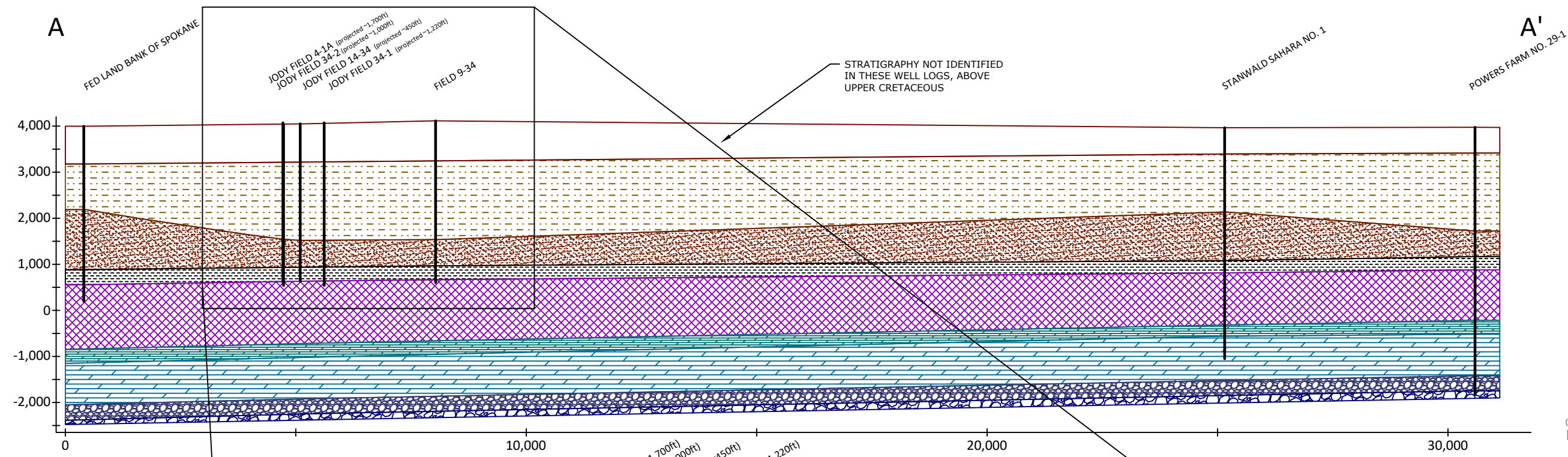
GEOLOGIC CROSS SECTION LOCATION

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment B
Figure 03**

RAMBOLL US CONSULTING, INC.
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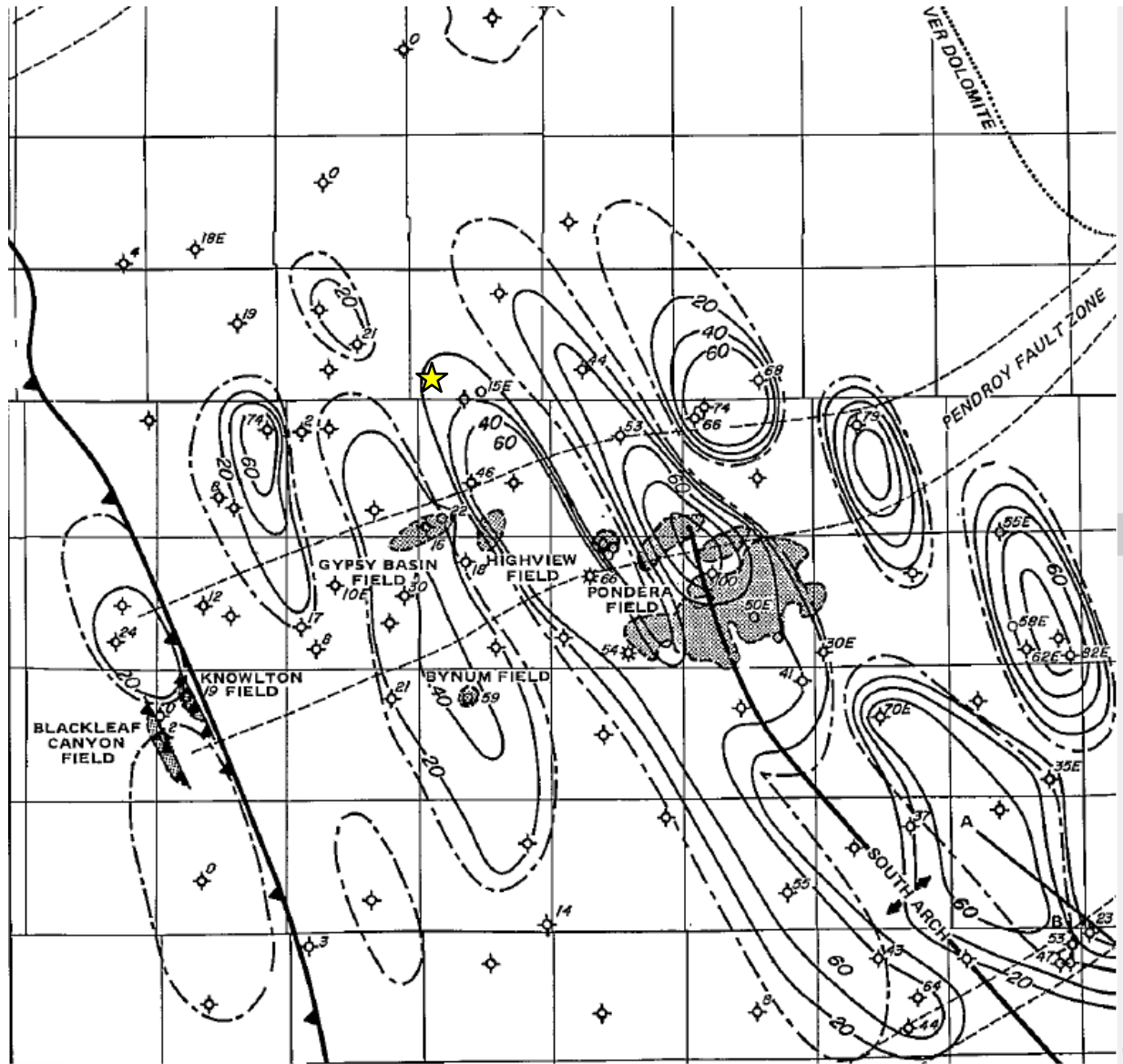


- GEOLOGIC MATERIALS:**
- UPPER CRETACEOUS
 - LOWER CRETACEOUS
 - JURASSIC ELLIS GROUP
 - MISSISSIPPIAN MADISON AQUIFER
 - DEVONIAN - THREE FORKS FORMATION
 - DEVONIAN - DUPELOW AQUIFER
 - CAMBRIAN
 - PRE-CAMBRIAN

- Notes**
1. 1X Vertical Exaggeration
 2. Stratigraphy interpolated and extrapolated from well logs within ~2,000ft of cross section line A-A'; using 3D visualization software, Earth Volumetric Studio (EVS).
 3. Some wells are projected to the cross section line, projection distance is as identified on this figure (behind well name).

GEOLOGIC CROSS SECTION A-A'

MONTALBAN OIL AND GAS OPERATIONS INC
 AREA WIDE AQUIFER EXEMPTION APPLICATION
 JODY FIELD WELLS



Pasternack, Ira, Nature and Distribution of Mississippian Sun River Dolomite Porosity, West Flan of the Sweetgrass Arch, Northwestern Montana, August 16, 1988

★ Approximate Site Location

Figure 07

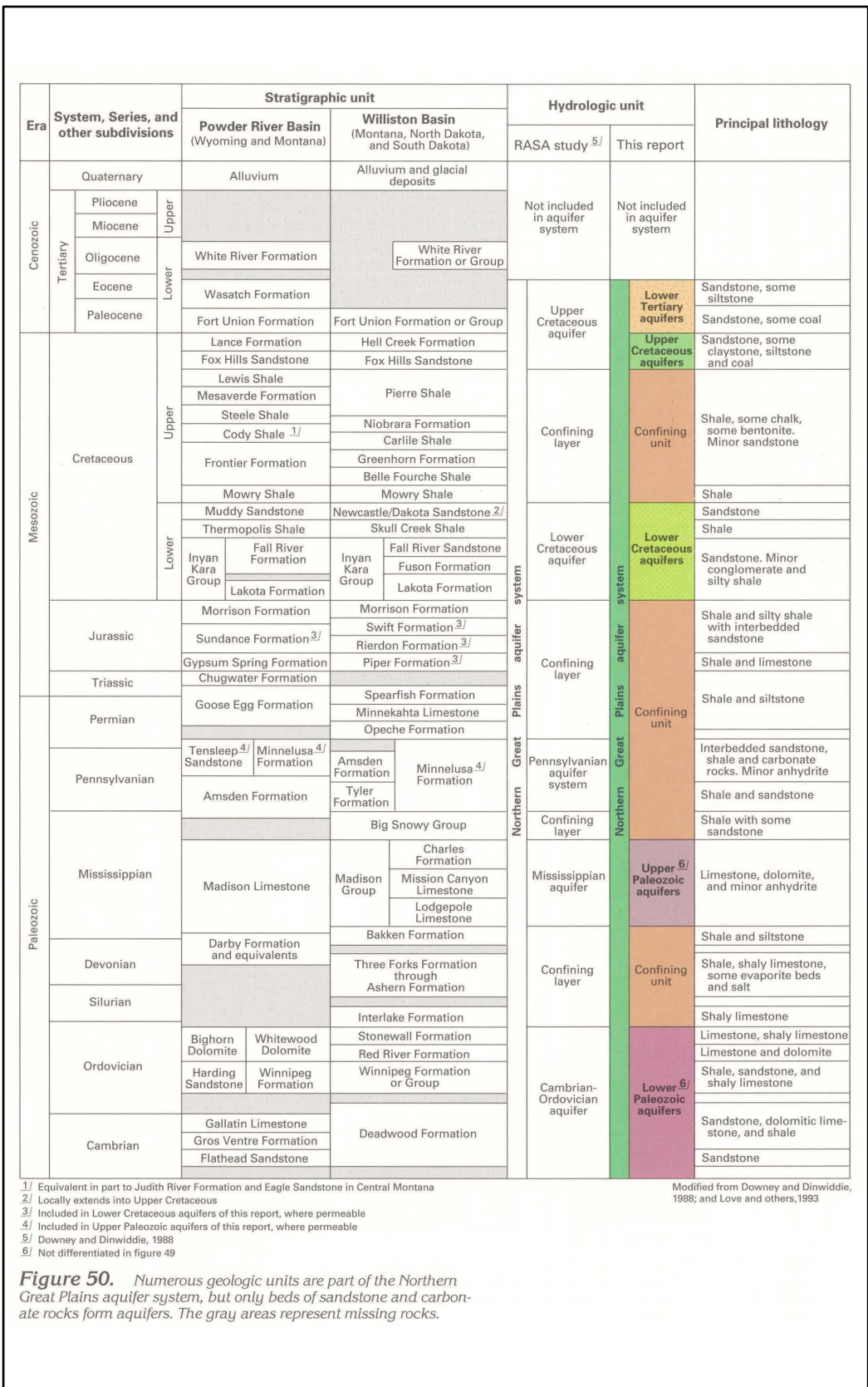
SUN RIVER DOLOMITE POROSITY ISOPACH MAP

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE UIC
APPLICATION
JODY FIELD WELLS

Attachment B FIGURE 05

RAMBOLL US CONSULTING, INC.
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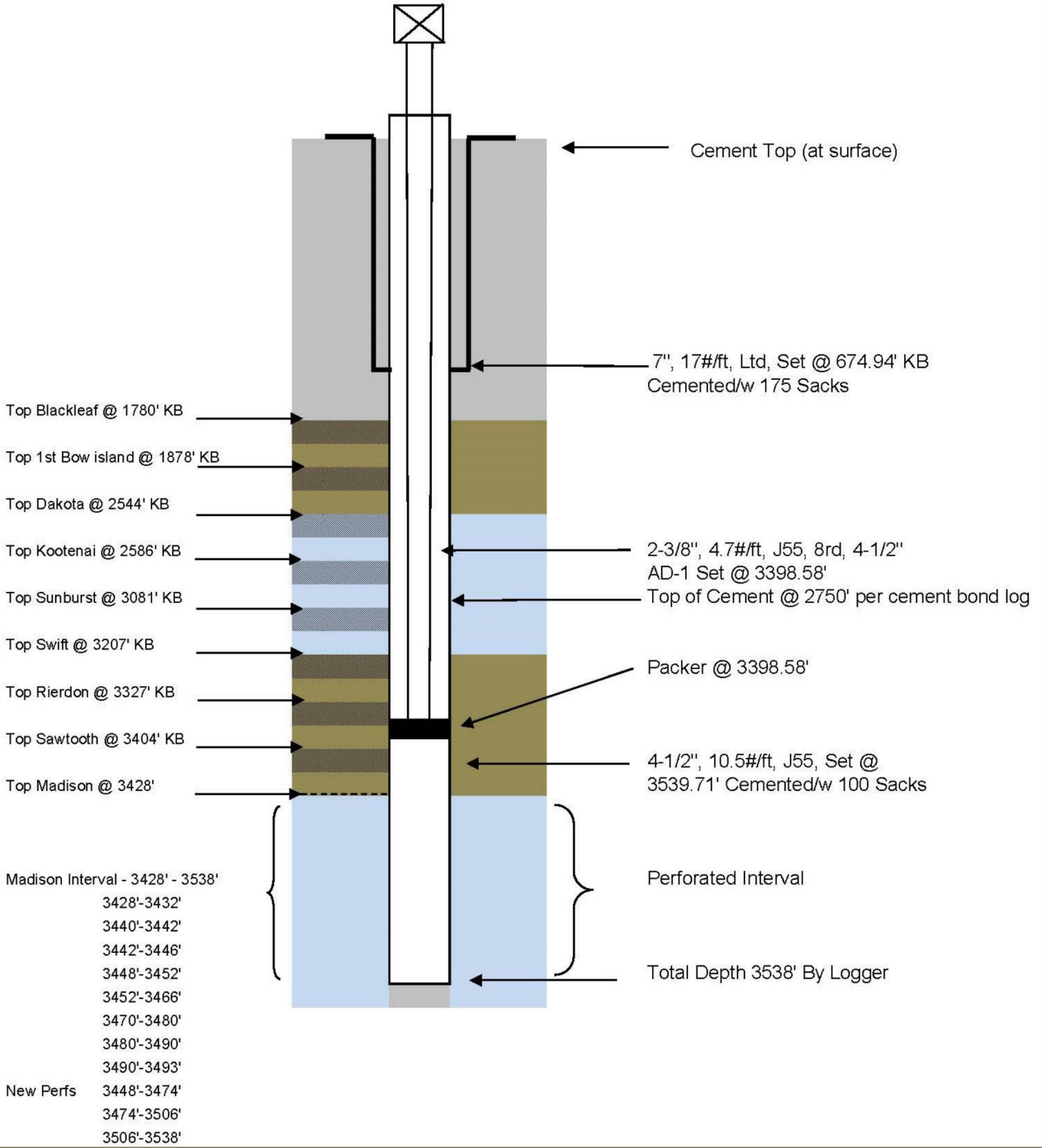
^{1/} Equivalent in part to Judith River Formation and Eagle Sandstone in Central Montana
^{2/} Locally extends into Upper Cretaceous
^{3/} Included in Lower Cretaceous aquifers of this report, where permeable
^{4/} Included in Upper Paleozoic aquifers of this report, where permeable
^{5/} Downey and Dinwiddie, 1988
^{6/} Not differentiated in figure 49
 Modified from Downey and Dinwiddie, 1988; and Love and others, 1993

Figure 50. Numerous geologic units are part of the Northern Great Plains aquifer system, but only beds of sandstone and carbonate rocks form aquifers. The gray areas represent missing rocks.

Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W (330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment B
Figure 07

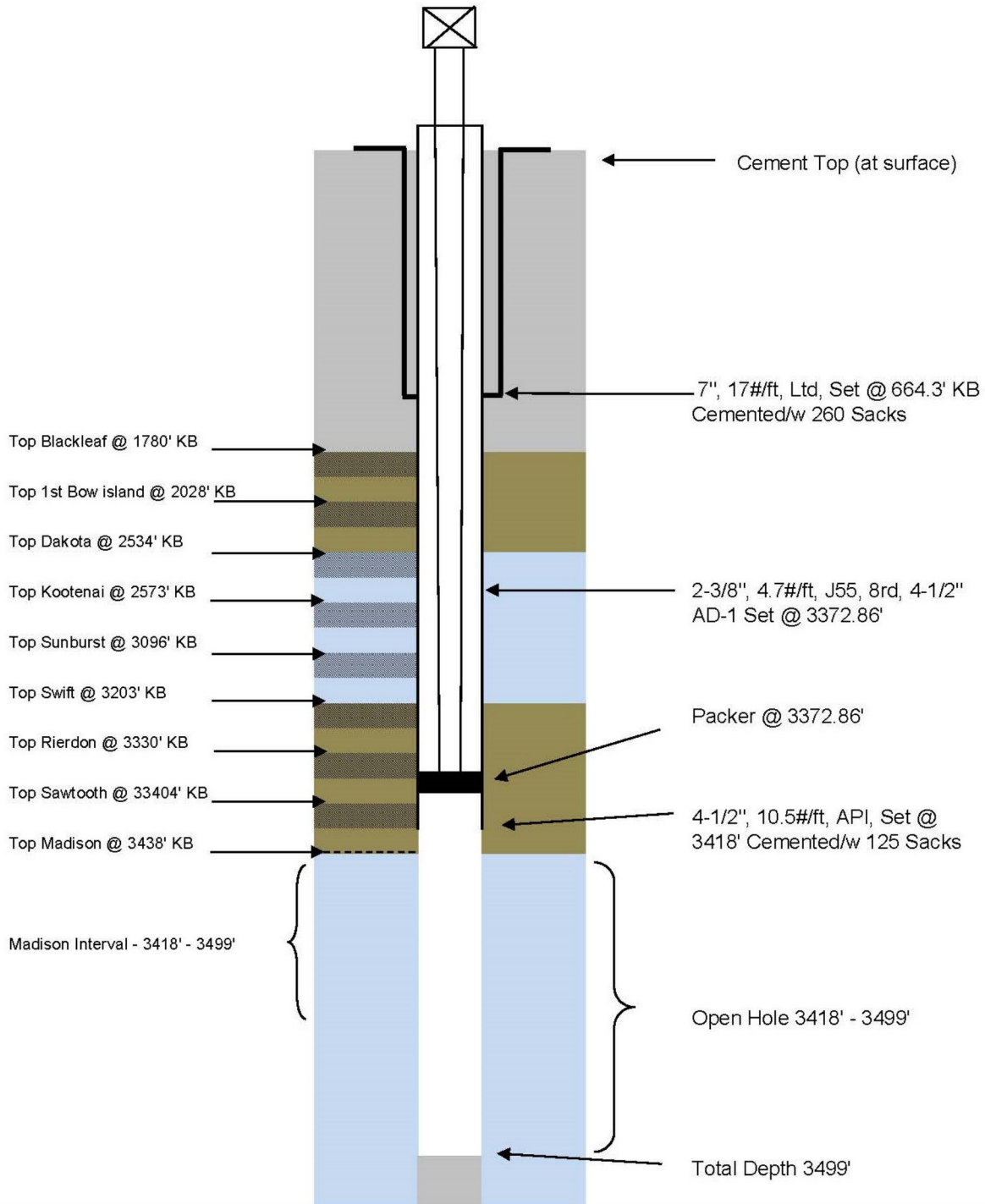
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment B
Figure 08

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



G10

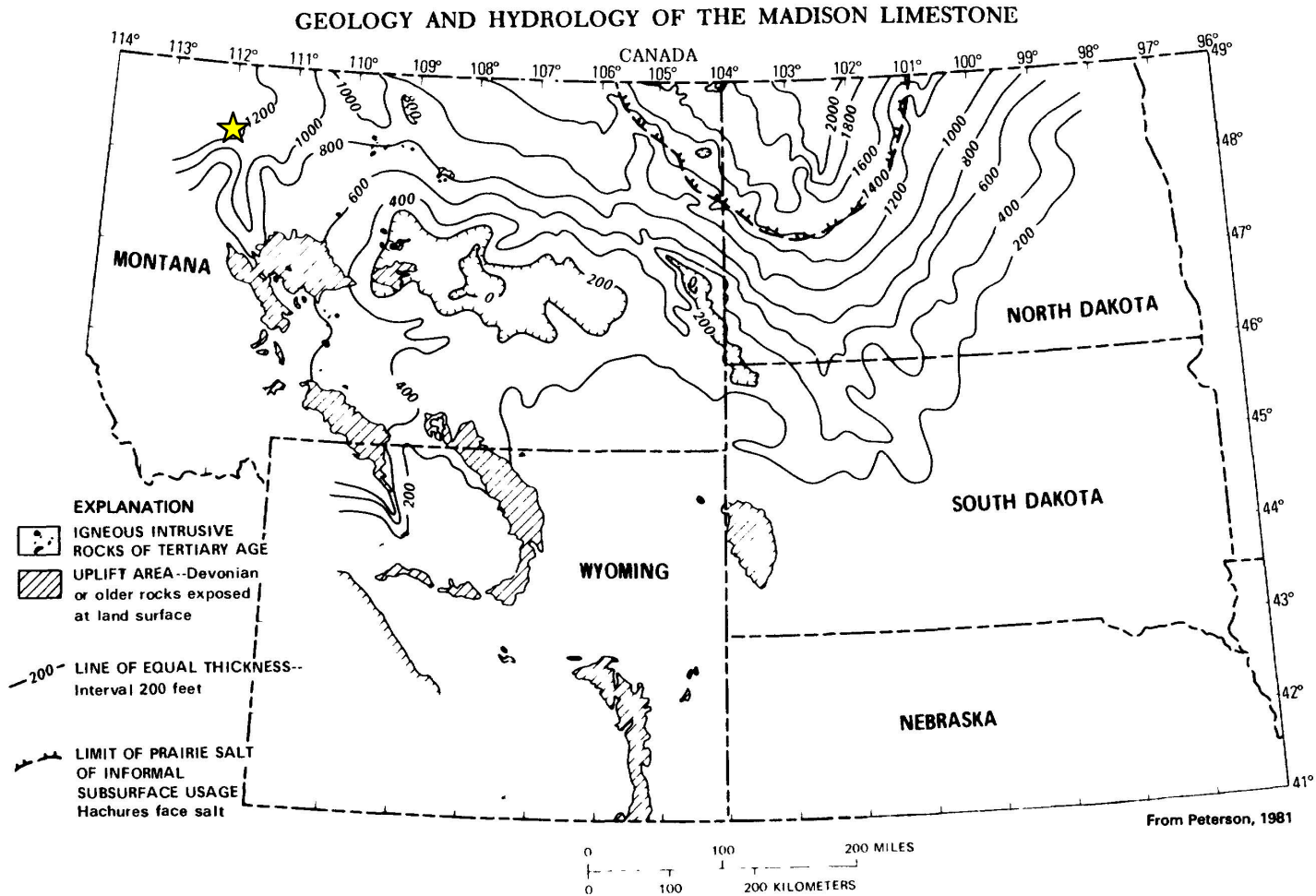


FIGURE 9. – Thickness of Devonian rocks.

Geohydrology of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 1273-G; Figure 9

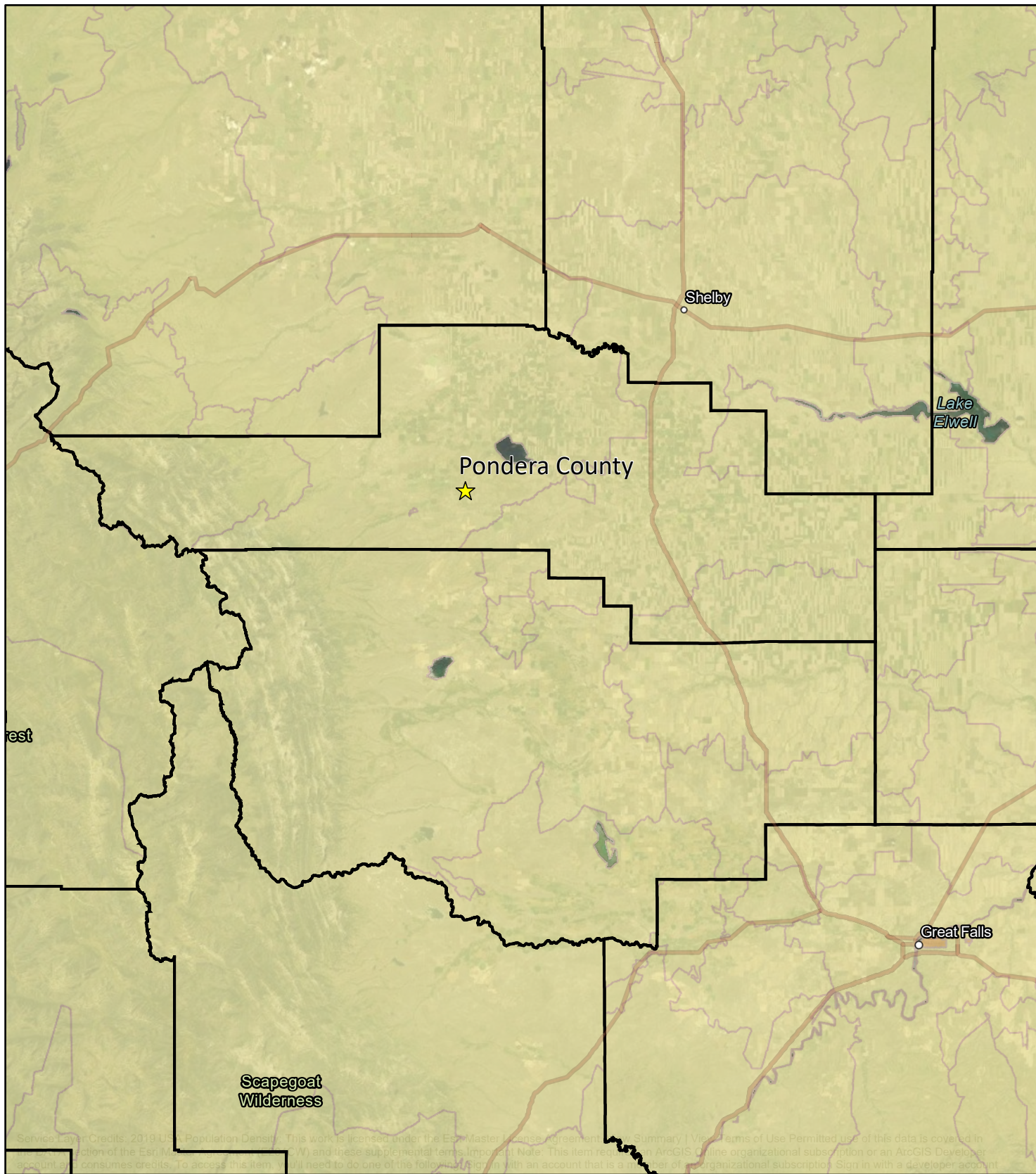
THICKNESS OF UNDERLYING DEVONIAN CONFINING LAYER

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS

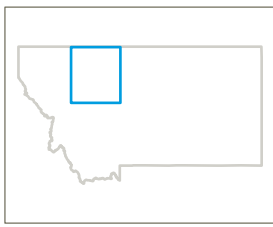
Attachment B
FIGURE 09

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Service Layer Credits: 2019 US Population Density. This work is licensed under the Esri Master License Agreement. Summary | View Terms of Use Permitted use of this data is covered in the Esri Master License Agreement (MLA) and these supplemental terms. Important Note: This item requires an ArcGIS online organizational subscription or an ArcGIS Developer account. Consumes credits. To access this item, you will need to do one of the following: Log in with an account that is part of an organizational subscription. Sign in with a developer account.



KEY MAP (not to scale)

-  Site Location
-  County Lines
-  0 - 1,000 people per sq mi
-  1,000 - 8,400 people per sq mi
-  8,400 - 15,800 people per sq mi
-  15,800 - 24,000 people per sq mi
-  24,000 - 629,000 people per sq mi

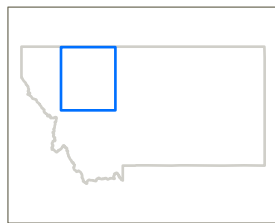
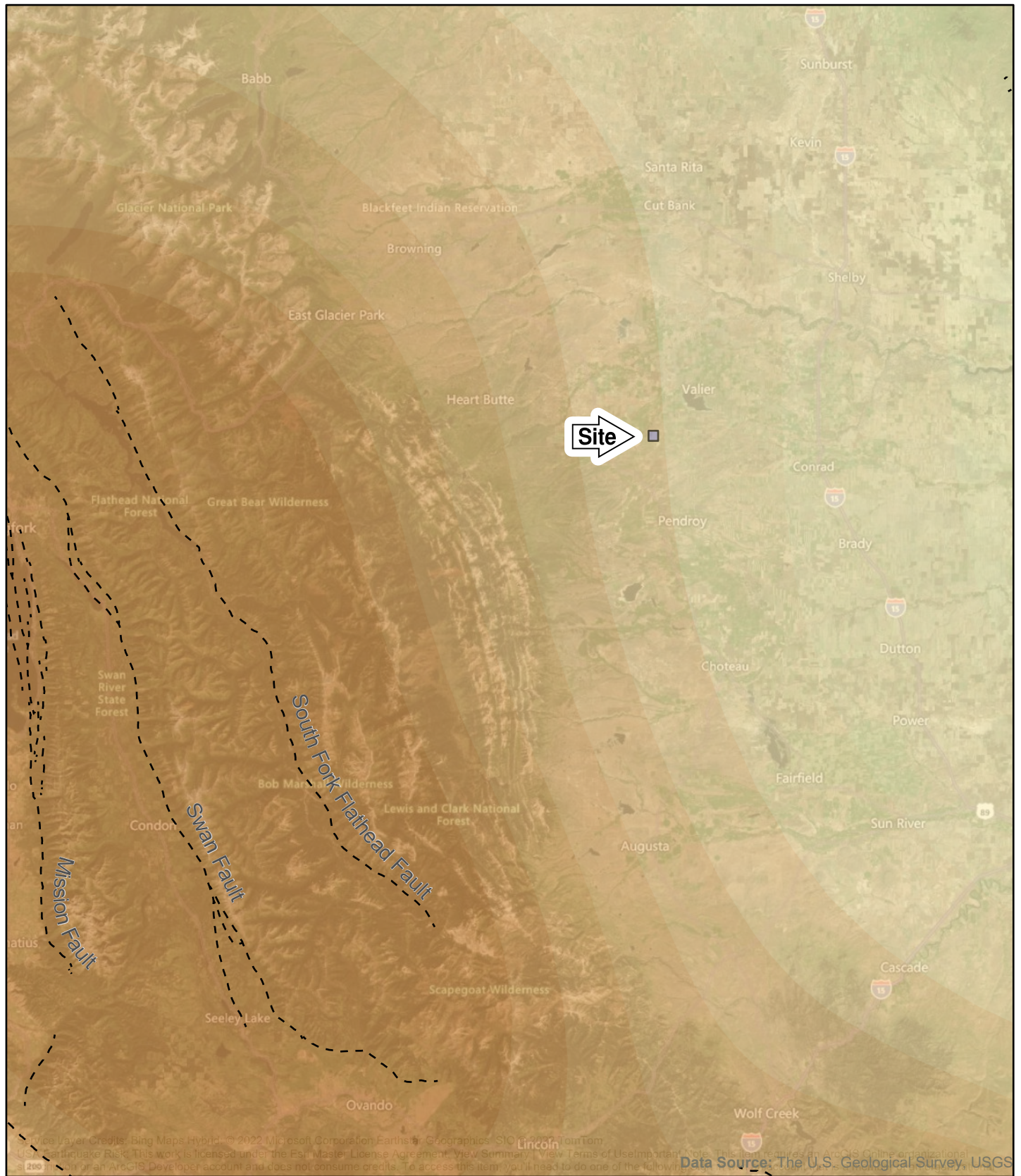
MAP OF PONDERA COUNTY
MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS



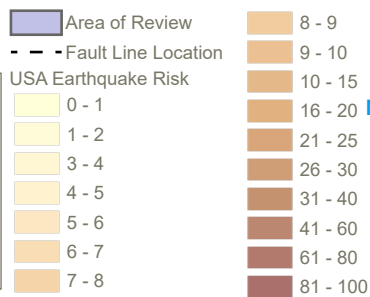
Attachment B
Figure 10

RAMBOLL US CONSULTING, INC.
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KEY MAP (not to scale)



SEISMIC MAP
MONTALBAN OIL AND GAS OPERATIONS
INC- AREA WIDE UIC
APPLICATION
JODY FIELD WELLS



Data Source: The U.S. Geological Survey, USGS

Attachment B
Figure - 11

RAMBOLL US CONSULTING, INC.
 A RAMBOLL COMPANY



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EXHIBIT A
Water Quality Analyses



ANALYTICAL SUMMARY REPORT

December 05, 2007

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cutbank, MT 59427

Workorder No.: B07120154

Project Name: Altamont Jody Fields

Energy laboratories Inc received the following 1 sample from Altamont Oil & Gas Inc on 12/4/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B07120154-001	#4 - 1 Well	12/03/07 12:00	12/04/07	Aqueous	Conductivity Resistivity Salinity

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

RECEIVED
DEC 10 2007
ALTAMONT OIL & GAS, INC



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields
 Lab ID: B07120154-001
 Client Sample ID: #4 - 1 Well

Report Date: 12/05/07
 Collection Date: 12/03/07 12:00
 Date Received: 12/04/07
 Matrix: Aqueous

Analysis	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Salinity	4.69			0.10		Calculation	12/05/07 08:36 / klc
Conductivity	8480	umhos/cm		1		A2510 B	12/04/07 12:01 / kh
Resistivity @ 68 F	1.18	ohm-m		0.04		E120.1	12/05/07 14:45 / klc

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B07120154

Login completed by: Eric L. Frank

Date and Time Received: 12/4/2007 9:15 AM

Reviewed by: Staci Fread

Received by: elf

Reviewed Date: 12/4/2007 8:02:40 PM

Carrier name: UPS NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	14°C
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Contact and Corrective Action Comments:

Letter of instruction provided from client.



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
Project: Altamont Jody Fields
Lab ID: B07120154-001
Client Sample ID: #4 - 1 Well

Report Date: 12/07/07
Collection Date: 12/03/07 12:00
Date Received: 12/04/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Salinity	4.69			0.10		Calculation	12/05/07 08:36 / klc
Conductivity	8480	umhos/cm		1		A2510 B	12/04/07 12:01 / kh
Resistivity @ 68 F	1.18	ohm-m		0.04		E120.1	12/05/07 14:45 / klc

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

January 03, 2008

Patrick Montalban
 Altamont Oil & Gas Inc
 PO Box 488
 Cutbank, MT 59427

Workorder No.: B07120154

Project Name: Altamont Jody Fields

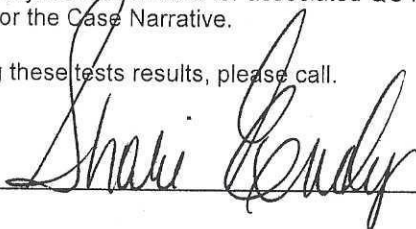
Energy Laboratories Inc received the following 1 sample from Altamont Oil & Gas Inc on 12/4/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B07120154-001	#4 - 1 Well	12/03/07 12:00	12/04/07	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Anions by ion chromatography Conductivity Specific Gravity pH Preparation, Dissolved Filtration Resistivity ROF report format Salinity Solids, Total Dissolved - Calculated

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



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JAN 14 2008

ALTAMONT OIL & GAS, INC



Company: Altamont Oil & Gas Inc	Date: 1/3/2008
Field: Altamont Jody Fields	Sample Date: 12/3/2007
County: 0	Formation:
Location: #4 - 1 Well	Rock Type:
Lab ID: B07120154-001	Depth:
Comments:	

Water Analysis Report

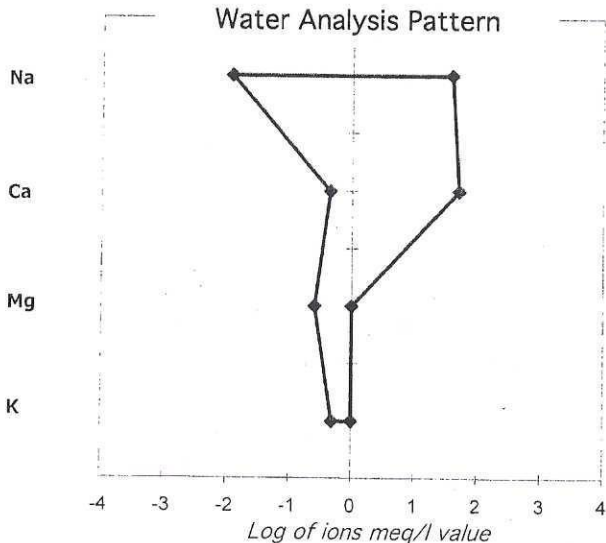
CATIONS	mg/l	meq/l	ANIONS	mg/l	meq/l
Potassium	81	2.07	Sulfate	25	0.52
Sodium	1,970	85.69	Chloride	1,380	38.92
Calcium	45	2.25	Carbonate	<1	0.00
Magnesium	48	3.95	Bicarbonate	3,120	51.15
Iron	nd	nd	Bromide	nd	nd
Barium	nd	nd	Organic Acids	nd	nd
Strontium	nd	nd	Hydroxide	<1	0.00
SUM +	2,144	93.96	SUM -	4,525	90.59

Solids		Sample Conditions	
Total Dissolved Solids @180°C	nd mg/l	pH, s.u. (Field)	7.50 s.u.
Total Solids, Calculated	5,109 mg/l	Sample Pressure	14.70 psia
Total Solids, NaCl equivalents	4,298 mg/l	Surface Temp	70.00 °F
Chloride as NaCl	2,275 mg/l	Downhole Temp	na °F
NaCl, % of Total Dissolved Solids	44.52 %	Ionic Strength	0.096 µ
Accuracy	-2.23 Sigma		

Dissolved Gases			
Bisulfide ion	nd	Dissolved O ₂ , aq	nd
Hydrogen Sulfide	nd	Total CO ₂ , aq	2,427 mg/l
Total Sulfide	nd		

Other Properties			
Calcium Hardness as CaCO ₃	112 mg/l	Specific Gravity	1.007 measured
Magnesium Hardness as CaCO ₃	198 mg/l	Specific Gravity	1.005 calculated
Total Hardness as CaCO ₃	310 mg/l	Resistivity, 68°F	1.18 ohm-m
		Conductivity 25°C	8,480 umhos/cm

Microbiological		Scaling Conditions	
Sulfate Reducing	nd	Calcium Carbonate	CaCO ₃ +
Aerobic Bacteria	nd	Calcium Sulfate	CaSO ₄ - - -
		Barium Sulfate	BaSO ₄ -
		Strontium Sulfate	SrSO ₄ -



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JAN 14 2008

Probable Mineral Residue, Dry
 Calculation error = -3.7 %
 ALTAMONT OIL & GAS, I

COMPOUND	mg/l
NaHCO ₃	3,705
NaCl	2,275
Mg(HCO ₃) ₂	289
Ca(HCO ₃) ₂	182
Na ₂ SO ₄	37.0

Note: nd denotes 'Not Determined'



QA/QC Summary Report

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2320 B							Batch: ALK071220A			
Sample ID: MBLK	Method Blank									
Alkalinity, Total as CaCO ₃	2	mg/L								
Bicarbonate as HCO ₃	2	mg/L								
Carbonate as CO ₃	ND	mg/L								
Hydroxide as OH	ND	mg/L								
Sample ID: LCS	Laboratory Control Sample									
Alkalinity, Total as CaCO ₃	97.7	mg/L	1.0	96	90	110				
Sample ID: B07121500-001ADUP	Sample Duplicate									
Alkalinity, Total as CaCO ₃	2080	mg/L	1.0				4.5	20		
Bicarbonate as HCO ₃	2540	mg/L	1.0				4.5	20		
Carbonate as CO ₃	ND	mg/L	1.0				0.0	20		
Hydroxide as OH	ND	mg/L	1.0				0.0	20		
Method: A2510 B							Batch: PHSC071204A			
Sample ID: PHC1070910A	Laboratory Control Sample									
Conductivity	157	umhos/cm	1.0	103	90	110				
Sample ID: PHC1070810A	Laboratory Control Sample									
Conductivity	5120	umhos/cm	1.0	102	90	110				
Sample ID: B07120150-001ADUP	Sample Duplicate									
Conductivity	907	umhos/cm	1.0				0.5	10		
Method: A4500 H							Analytical Run: ORION555A_071220B			
Sample ID: PHC1071130A	Initial Calibration Verification Standard									
pH	7.01	s.u.	0.10	100	98	102				
Method: A4500 H							Batch: PHSC071220A			
Sample ID: B07121618-003ADUP	Sample Duplicate									
pH	7.76	s.u.	0.10				1.2	10		

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: 30333		
Sample ID: MB-30333	Method Blank		Run: ICP202-B_071227A				12/27/07 11:51		
Calcium	0.04	mg/L	0.009						
Magnesium	ND	mg/L	0.01						
Potassium	0.03	mg/L	0.02						
Sodium	ND	mg/L	0.1						
Sample ID: B07121574-001BMS2	Sample Matrix Spike		Run: ICP202-B_071227A				12/27/07 12:06		
Calcium	92.7	mg/L	1.0	97	70	130			
Magnesium	67.5	mg/L	1.0	101	70	130			
Potassium	53.0	mg/L	1.0	103	70	130			
Sodium	59.6	mg/L	1.0	103	70	130			
Sample ID: B07121574-001BMSD2	Sample Matrix Spike Duplicate		Run: ICP202-B_071227A				12/27/07 12:09		
Calcium	93.3	mg/L	1.0	98	70	130	0.7	20	
Magnesium	67.3	mg/L	1.0	100	70	130	0.3	20	
Potassium	53.2	mg/L	1.0	104	70	130	0.4	20	
Sodium	60.2	mg/L	1.0	105	70	130	1.0	20	
Method: E200.7							Analytical Run: ICP202-B_071227A		
Sample ID: QCS	Initial Calibration Verification Standard						12/27/07 10:09		
Calcium	50.1	mg/L	1.0	100	90	110			
Magnesium	49.0	mg/L	1.0	98	90	110			
Potassium	50.7	mg/L	1.0	101	90	110			
Sodium	50.5	mg/L	1.0	101	90	110			

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0							Analytical Run: IC202-B_071221A			
Sample ID: ICV Initial Calibration Verification Standard 12/21/07 10:02										
Chloride	25.2	mg/L	1.0	101	90	110				
Sulfate	101	mg/L	1.0	101	90	110				
Method: E300.0							Batch: R104331			
Sample ID: ICB Method Blank Run: IC202-B_071221A 12/21/07 10:14										
Chloride	0.04	mg/L		0.03						
Sulfate	ND	mg/L		0.06						
Sample ID: LFB Laboratory Fortified Blank Run: IC202-B_071221A 12/21/07 10:26										
Chloride	9.27	mg/L	1.0	92	90	110				
Sulfate	37.2	mg/L	1.0	93	90	110				
Sample ID: B07120154-001AMS Sample Matrix Spike Run: IC202-B_071221A 12/21/07 11:35										
Chloride	2580	mg/L	1.5	96	90	110				
Sulfate	4890	mg/L	3.1	97	90	110				
Sample ID: B07120154-001AMSD Sample Matrix Spike Duplicate Run: IC202-B_071221A 12/21/07 11:47										
Chloride	2560	mg/L	1.5	94	90	110	0.9	20		
Sulfate	4850	mg/L	3.1	97	90	110	0.8	20		

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B07120154

Log in completed by: Eric L. Frank

Date and Time Received: 12/4/2007 9:15 AM

Reviewed by: Staci Fread

Received by: elf

Reviewed Date: 12/4/2007 8:02:40 PM

Carrier name: UPS NDA

- | | | | |
|---|---|--|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | 14°C |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

Letter of instruction provided from client.

RECEIVED
 JAN 14 2008
 ALTAMONT OIL & GAS, INC



**** REPORT ****

Altamont Oil & Gas Inc
Patrick Montalban
PO Box 488
Cutbank MT 59427

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JAN 14 2008

ALTAMONT OIL & GAS, INC

1/15/2008

Dallig 6037
Altamont Field 41



LABORATORY ANALYTICAL REPORT

Client: MCR LLC
 Project: Berthelote Water Disposal
 Lab ID: B08042696-002
 Client Sample ID: Disp System

Report Date: 05/06/08
 Collection Date: 04/24/08 06:45
 Date Received: 04/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	3220	mg/L		10		A2540 C	04/25/08 13:39 / afb
IN ORGANICS							
Alkalinity, Total as CaCO3	2010	mg/L		1		A2320 B	04/25/08 21:40 / kh
Sulfate	159	mg/L		1		E300.0	04/28/08 20:05 / qed
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.14	mg/L		0.05		E353.2	05/02/08 13:39 / bls

Water Sample from #4-1
Less gal Disp 3. gal another
the sample for 11-34 and 11-34
Fields 11-34 (Fields Water Disposal)

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

March 11, 2009

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cut Bank, MT 59427

Workorder No.: B09030751

Project Name: Permit

Energy Laboratories Inc received the following 1 sample for Altamont Oil & Gas Inc on 3/10/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B09030751-001	SESW-Section 34-T29N-R6W, Jody Fields #14-34	03/05/09 0:00	03/10/09	Aqueous	Solids, Total Dissolved

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
Project: Permit
Lab ID: B09030751-001
Client Sample ID: SESW-Section 34-T29N-R6W, Jody Fields #14-34

Report Date: 03/11/09
Collection Date: 03/05/09
Date Received: 03/10/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	5440	mg/L		10		A2540 C	03/10/09 16:24 / afb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc

Report Date: 03/11/09

Project: Permit

Work Order: B09030751

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: TDS090310A
Sample ID: MBLK2	Method Blank								Run: CPA124S_090310B 03/10/09 16:23
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10						
Sample ID: LFB2	Laboratory Fortified Blank								Run: CPA124S_090310B 03/10/09 16:23
Solids, Total Dissolved TDS @ 180 C	1090	mg/L	10	99	90	110			
Sample ID: B09030751-001A MS	Sample Matrix Spike								Run: CPA124S_090310B 03/10/09 16:24
Solids, Total Dissolved TDS @ 180 C	7770	mg/L	10	101	80	120			
Sample ID: B09030751-001A MSD	Sample Matrix Spike Duplicate								Run: CPA124S_090310B 03/10/09 16:25
Solids, Total Dissolved TDS @ 180 C	7770	mg/L	10	101	80	120	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc Workorder Receipt Checklist



B09030751

Altamont Oil and Gas Inc

Login completed by: Krystal McDonald

Date and Time Received: 3/10/2009 11:15 AM

Reviewed by: Denise Ruby

Received by: Ig

Reviewed Date: 3/10/2009 12:55:00 PM

Carrier name: Std US Mail

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	15°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None

Privileged and Confidential

EXHIBIT B

Well Reports, Jody Field Wells 34-1 and 34-2

**Engineering Completion
Report**

**Montalban Oil & Gas Operations Inc
MOGO/Jody Field 34-1
NWNW – Section 34-T29N-R6W
(2310' FSL – 990' FWL)
Pondera County, Montana
API #25-073-21838**

**Altamont Oil & Gas Inc
Patrick M. Montalban
Petroleum Consultant
PO Box 488
Cut Bank, MT 59427**

Resume

Spud Date: August 28, 2008

Completion Date: May 6, 2008

Status: Madison Sun River Dolomite Injection Well

Elevation: 4071' GR 4076' KB

Total Depth: 3540' Driller 3539' Logger
4 1/2" set @ 3540' Float Collar 3495'

Hole Size: 8 3/4" (0 - 679') 6 1/4" (679' - 3540')

Casing Size: 7", 17#/ft, Ltd, ST&C, set @ 674.94' KB
w/175 sacks Class G Cement
4 1/2", 105#/ft, SPI, J55, ST&C, Rge 3 set
@ 3539.71 KB w/100 sacks Class G
Cement. Float collar @ 3495.42 KB

Perforations: 3428' - 3432' = 4 SPF = 3 1/8" HSC
3442' - 3446' = 4 SPF = 3 1/8" HSC
3440' - 3442' = 4 SPF = 3 1/8" HSC
3448' - 3452' = 4 SPF = 3 1/8" HSC
3452' - 3466' = 4 SPF = 3 1/8" HSC
3470' - 3480' = 4 SPF = 3 1/8" HSC
3480' - 3490' = 4 SPF = 3 1/8" HSC
3490' - 3493" = 4 SPF = 3 1/8" HSC
3448' - 3474' = 4 SPF = 3 1/8" Exp.
3474' - 3506' = 4 SPF = 3 1/8" Exp.
3506' - 3538' = 4 SPF = 3 1/8" Exp.

New Perforations

Bridge Plug: None

Tubing: 105 joints 2 3/8", 4.7 #/ft, J55. 8rd,
ST&C set @ 3398.58' with 4 1/2' x 2
38" ADI

Seating Nipple: None

Rods: None

Pump: None

Pumping Unit: None

Daily Activity Summary

Wednesday
September 2, 2022

70°F – 95°F Clear Sky. 30 mph from the west.

Began operations @ 9:00 am.

Moved in and rigged up Liquid Gold Well Service Rig No. 6. Haul in and set circulating tank and power swivel.

Rigged up 2:30 pm. Unseat 4 ½” x 2 3/8” AD-1 packer unseated @ 3:00 pm. Pack off tubing. Start and go through circulating pump. Shut down operations due to high winds 30-40 mph. Shut down operations @ 3:30 pm.

Total Rog Hours: 6 ½ hrs x \$260.00=		\$1,690.00
Travel Time: (2 Trucks) (per man) =		\$180.00
Tracking Costs:		
Pickup Costs: 2 trucks x \$60.00 =		\$120.00
Fuel Surcharge: 10% =		\$169.00
Environmental Safety =		\$50.00
Tool Pusher		\$350.00
Extra Labor: 1 man x \$45.00/hr =		<u>\$292.50</u>
		\$2,851.50
Winch Truck: 3 hrs x \$165.00 =		\$495.00
2 hrs Tanker: 2 x \$165.00 =		\$330.00
1 Pickup: (\$60 per unit) =		\$60.00
Fuel Surcharge: 10% =		\$82.50
Pump Truck Mileage: 40 miles x \$4.00		\$160.00
1 Travel per Man: 2 x \$45.00 =		<u>\$90.00</u>
		\$1,217.50
1 day Consulting = 1500/2 =		\$750.00
Mileage: 60 miles x 1.00 =		<u>\$60.00</u>
		\$810.00
Total Daily Costs =		\$4,879.00

Thursday
September 8, 2022

56°F – Cloudy Sky – 10-15 mph wind from North
Began operations @ 8:00 am. Well
flowed and equalized on the backside. Pulled and
strapped 2 3/8", 4.7#/ft tubing out of the hole. Pulled 105
joints 2 3/8", 4.7#/ft with 4 1/2" x 2 3/8" AD-1 Packer.
Tubing tally as follows

1 – 4 1/2" x 2 3/8" AD-1 Packer	=	2.50'
1 – 2 3/8" seating Nipple	=	1.10'
105 joints 2 3/8", 4.7#/ft, J55, 8rd	=	3391.98'
Total	=	3395.58'
KB	=	<u>3.0</u>
Total String	=	3398.58' KB

Stop and pick up 2 joints of 2 3/8" tubing. Tagged as
follows and slowly circulated to T.D.

		3398.58' KB
2 joints of 2 3/8" tubing	=	<u>62.90'</u>
		3461.48' KB

Stop and pick up 1 joint of 2 3/8" tubing

1 joint of 2 3/8" tubing	=	<u>31.45'</u>
Total 108 joints		
Total Tubing	=	3492.93' KB

48°F – Raining and very cloudy @ 2:00 pm.
Tagged @ 3461' KB and circulated to total depth 3493'
KB and recovered thick black oily sulphur water with
many solids. Circulated the last 15' to total depth 3493'
KB. Well went on a vacuum and we lost 15 bbls in 1
hour from the circulating tank. Successful clean out
of the well. Shut down operations @ 6:00 pm.

Total Rig Hours: 10 hrs x \$260.00	=	\$2,600.00
Travel Time: 4 men x 2 hrs x \$45.00	=	\$360.00
Trucking Costs		
Pickup Costs: 2 trucks x \$60.00	=	\$1,200.00
Circulating Tank: (Pump Tank)	=	\$550.00 /day
Power Swivel: 1 x \$250.00	=	\$250.00
Fuel Surcharge: 10%	=	\$315.00
Environmental & Safety	=	\$50.00
Tool Pusher		\$350.00
Swivel Delivery: 40 miles x \$4.00	=	\$160.00
3 7/8" Bit	=	\$600.00

Bit Sub	=	\$50.00
Extra Labor: \$45.00/hour x 10 hrs	=	\$450.00
Circulating Rubber	=	\$300.00
Pipe Dope	=	<u>\$25.00</u>
		\$6,180.00
Vacuum Truck: 2 ½ hrs x \$145.00	=	\$362.50
1 Pickup	=	\$60.00
1 hr Travel per Man	=	\$90.00
Fuel Surcharge	=	<u>\$36.25</u>
Total		\$548.75
1 day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	\$60.00
		<u>\$810.00</u>
Total		\$7,538.75

Friday
September 9, 2022

43°F – Raining and cold – NW wind from NW
Began operations @ 8:00 am. Ran 4 ½” x 2 3/8” AD-1 packer with 105 joints of 2 3/8”, 4.7#/ft tubing. Tubing string as follows:

1 – 4 ½” x 2 3/8” AD-1 Packer	=	2.50’
1 – 2 3/8” Seating Nipple	=	1.10’
105 joints 2 3/8”, 4.7#/ft, J55 8rd ST&C Tubing	=	3391.98’
Total String	=	3395.58’
KB	=	<u>3.00’</u>
Total String KB	=	3398.58’ KB

Moved in and rigged up Liquid Gold Pump and Transport Truck. Pressure up backside to 500#/s. Acidized well with 1000 gallons of 28% Hcl (23.8 bbls) Acid job as follows:

Pumped acid @ 1000#/s to load perforations
Pumped 23.8 bbls Hcl acid @ 1000 bbls @ 1 bbl/minute
Pumped displacement @
 Pumping – 2.0 bbls/minute @ 1200#/s
 Pumping – 3.0 bbls/minute @ 1750#/s
 Pumping – 3.0 bbls/minute @ 1100#/s
 Over displaced by 30.0 bbls
Instant shut in Pressure = 1000#/s
5 minute shut in Pressure = 100#/s
7 minute shut in Pressure = 0#/s

Well on a vacuum. Unseat 4 1/2" x 2 3/8" AD-1 Packer and pulled 105 joints of tubing. Pick up 3 7/8" bit and sub and ran tubing string as follows:

1 – 3 7/8" bit and bit sub	=	1.25
108 joints 2 3/8 " , 4.7#/ft		
J55, 8rd, ST&C	=	3492.93'
Total String	=	3494.18'
Pick up 1 joint 2 3/8" tubing	=	31.45
Total string = 109 joints		
		3525.63 Gr
Add KB	=	<u>3.0'</u>
		3528.63 KB

Tagged float collar @ 3492.93 KB. Picked up power swivel and began to drill float collar @ 3:00 pm. Drilled from 3 7/8" from 3:00 pm to 5:30 pm. Shut down operations @ 5:30 pm

Total Rig Hours: 9 hrs x \$260.00	=	\$2,470.00
Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00 per man	=	\$270.00
Fuel Surcharge: 10%	=	\$357.00
Environmental & Safety	=	\$50.00
Supervisor: \$350.00 per day	=	\$350.00
Pump Tank: \$550.00 per day	=	\$550.00
Power Swivel: \$550.00 per day	=	\$550.00
4 1/2" AD-1 Packer: Rental 1 day x \$250	=	\$250.00
Crossover Sub	=	<u>\$50.00</u>
Total Rig Costs	=	\$5,017.00

Acid Job = 1000 gallons 28% Hcl

Acid Pump Truck	=	\$1,600.00
Pump Truck Mileage	=	-----
Bulk Acid Truck: \$750 per day	=	\$750.00
Mileage Bulk truck: \$4.00/mile x 40 miles	=	\$160.00
1000 gallons 28% Hcl	=	\$3,250.00
Additives	=	\$489.50
1 Pickup: \$60.00 per day	=	\$60.00
Fuel Surcharge: 10%	=	\$249.50
Environmental & Safety	=	<u>\$75.00</u>
Total Costs	=	\$6,779.00

Total Rig Costs = \$11,796.00

Consulting: \$1500per day/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total		\$12,606.00

Monday
September 12, 2022

59°F – Very Smokey – North/North West wind 15 mph.
Began operations @ 8:00 am. Rigged up power swivel and drilling equipment. Drilled from 9:00 am – 10:30 am. Drilled out 4 1/2" float collar @ 10:30 am. Drilled 3 7/8" hole from 3495' to 3528.63'. Picked up 110th joint and drilled from 3528.63' to 3538.63' from 10:30 am to 12:00 pm. Drilled 3 7/8" hole from 3583.63' to 3543'. Tag guide shoe. Began to torque up 3 7/8" bit. Total depth @ 3543' KB by rig operators. Circulate and clean hole. Total pipe tally below:

1 – 3 7/8" bit and bit sub	=	1.25'
Ran 109 2 3/8", 4.7#/ft, J55, 8rd ST&C Rge 3	=	3524.38'
Total String	=	3525.63'
Add KB = 3'	=	<u>3.00'</u> 3528.63'
Picked up 110 joints = 31.45'		
Drilled 14' of the 110 joints	=	<u>14.0'</u>
Total String		3542.63'

Total depth 3543.0' KB by rig operator. Circulated hole clean for 1 hr. Hole clean. Tripped 110 joints out of the hole. Pick up 3 7/8" bit and casing scraper.

69° - Very smokey – North/Northwest wind @ 15 mph
Trip 110 joints 2 3/8", 4.7#/ft tubing into hole and tag total depth 3543' KB by operator. Circulated hole and reciprocate a number of times from 3420' – 3543' KB. Circulated tubing and rotate tubing and well cleaned out to total depth with no fill. Lift tubing above 3420'. Shut down operations @ 5:00pm.

Total Rig hours: 9hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45/hr/man	=	\$360.00
Fuel Charge: 10%	=	\$344.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$550.00
Power Swivel	=	\$550.00
4 1/2" Scraper	=	\$150.00
3 7/8" Bit for Scraper	=	\$200.00
Extra Labor: (1 guy) \$45/hr	=	\$405.00
Bit Sub	=	\$50.00

Pipe Dope	=	<u>\$25.00</u>
Total Daily Costs	=	\$5,494.00
1 Day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total Daily Costs	=	\$6,304.00

Tuesday
September 13, 2022

59°F – Very Smokey – Very little wind
Began operations @ 11:00 am. Tripped to total depth 2543' KB and tagged no fill. Rolled hole and circulated well clean. Trip out of hole for perforating company. Rigged up Nine Energy Service @ 2:00 pm. Ran 3.75" gauge ring to total depth 3538' KB. Perforated 3506' – 3538' = 4 SPF, 3 1/8" expendable gun. 32' = 120 shots, successful shooting. Perforated 3474' – 3506' = 4 SPF, 3 1/8" expendable gun. 32' = 120 shots, successful shooting. Perforated 3448' – 3474' = 4 SPF, 3 1/8" expendable gun. 26' = 96 shots, successful shooting. Shot 90' of the Sun River Dolomite Formation. Rigged down Nine Energy Service. Tripped in _____ joints of 2 3/8" tubing with a 4 1/2" x 2 3/8" SD-1 Packer with 3 joints of tail pipe. Tubing tally as follows:

1 – 4 1/2" x 2 3/8" AS-1 Packer	=	2.50'
1 – 2 3/8" seating nipple	=	1.10'
105 joints 2 3/8", 4.7#/ft, J55, 8rd ST&C Rge 3	=	3391.98'
Total	=	3395.58'
KB = 3'	=	<u>3.0'</u>
		3398.58'
3 joints of tubing = total 108 joints =		<u>94.35'</u>
3 joints of tubing below packer		
Set @ _____		3492.93'

Packer set @ 3398.58' KB

Set 4 1/2" x 2 3/8" AS-1 Packer @ 3399' KB. Shut down operations @ 6:30 pm

Total Rig Hours: 7 1/2 x \$260.00	=	\$1,950.00
Daily Pickup: 2 hrs x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$250.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$550.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$3,515.00

3 hours water tanker: 3 x \$165.00	=	\$495.00
2 hours pickup: 2 x \$45.00	=	\$90.00
1 pickup:	=	\$60.00
Fuel Surcharge: 10%	=	\$49.50
Environmental: \$50.00/day	=	<u>\$50.00</u>
		\$744.50

Nine-CDK Perforating LLC
Perforated Madison Sun River Dolomite \$28,770.00

1 day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00/mile	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs = \$33,839.50

Perforating Summary

**MOGO/Jody Fields 34-1
SESESW Section 34-T28N-R6W
Pondera County Montana**

No. 1 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3506’ – 3538’
3 1/8” Expendable Gun = 33.2” Penetration .55 Diameter
4 SPF = 120 Shots
Collar Locator = 3503’7”
Shot @ 3:21 pm
Successful Shooting**

No. 2 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3474’ – 3506’
3 1/8” Expendable Gun = 33.2 Penetration .55 Diameter on shot hole
4 SPF = 120 Shots
Collar Locator 3503’7”
Shot @ 3:57 pm
Successful Shooting**

No. 3 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3448’ – 3474’
3 1/8” Expendable Gun = 33.2 Penetration .55 Diameter on shop hole
4 SPF = 96 shots
Collar Locator = 3445’7”
Shot @ 4:29 pm
Successful Shooting**

Wednesday
September, 13, 2022

55°F – Very Smokey – Wind from NW @ 9 mph
Began operations @ 8:00 am. Moved in and
rigged up Liquid Gold Well Service Pump Truck
and Acid Transport. Pressured backside to
600#/s. Held OK. Began acid job @ 10:00 am.
Acidized well with 1000 gallons of 28% Hcl Acid
as follows:

Total Acid = 23.8 bbls Total displacement = 15.5
bbls. Load acid in tubing. Acid on perforation
with 13.5 bbls pumping @ 400#/s. Acid job as
follows:

Pumped 2.0 bbls/min @ 900#/s
Pumped 2.0 bbls.min @ 1000#/s
Pumped 23.8 bbls of acid and start displacement
Pumped 2.0 bbls/min @ 900#/s pumped 13.5 bbls
of displacement

Pumping 3.0 bbls/min @ 1400#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1500#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1000#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1000#/s 5 bbls over
displacement

Pumped 35.0 bbls over displacement

ISI = 600#/s
1 minute shut in = 100#/s
2 minute shut in = vacuum

Job ended. Moved out Liquid Gold Equipment
Unseat 4 1/2" x 2 3/8" AD-1 Packer

1:00 pm – 59°F – Very Smokey
Tripped out 105 joints of 2 3/8" tubing. Remove
packer. Pickup rebuilt 4 1/2" x 2 3/8" AD-1
packer. Ran tubing as follows:

1 – 4 1/2" x 2 3/8" AD-1 Packer = 2.50'
1 – 2 3/8" Seating Nipple = 1.10'

105 joints 2 3/8", 4.7#/ft, J55, 8rd
ST&C tubing = 3391.58'

Total String = 3395.58'
KB = 3.0'

Tubing set @ 3398.58' KB

Rolled to casing with 50 bbls of corrosion inhibited water. Fluid clean. Landed 4 1/2" x 2 3/8" AD-1 Packer with 13,000#/s over string weight. Held OK. Ran MIT test on well as follows:

<u>Time</u>	<u>Pressure</u>	<u>Result</u>
2:24 pm	450#/s	Held OK
2:29 pm	450#/s	Held OK
2:34 pm	450#/s	Held OK

Passed MIT test. Rigged down and moved Fields #34-2. Shut down operations @ 3:00pm

Total Rig Hours: 7 hrs x \$260.00	=	\$1,820.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 1 hr x \$45.00/man	=	\$135.00
Fuel Surcharge: 10%	=	\$237.00
Environmental & Safety	=	\$50.00
Supervisor	=	\$350.00
Pump & Tank	=	\$550.00
4 1/2" Redress Packer	=	\$500.00
2" fill port part 3000#/s valve		
For acid job & pressure handline	=	\$540.00
4 1/2" x 2 3/8" AD-1 for acid job	=	\$250.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$4,442.00

Acid job 1000 gallons 28% Hcl

Acid Pump Truck	=	\$1,600.00
Bulk Acid Truck	=	\$750.00
Bulk Mileage	=	\$160.00
Bulk Acid 1000 gallons @		
3.25 x 1000	=	\$3,250.00
Additives	=	\$704.50
Environmental: \$75.00/day	=	\$75.00
1 Pickup	=	\$60.00
Fuel Surcharge: 10%	=	<u>\$301.00</u>
Total Costs	=	\$7,560.00

1 Day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs = \$12,812.00

Total Workover = \$77,979.25

**Engineering Completion
Report**

**Montalban Oil & Gas Operations Inc
MOGO/Jody Field 34-2
NENWSW – Section 34-T29N-R6W
(2310' FSL – 990' FWL)
Pondera County, Montana
API #25-073-21838**

Lone Man Coulee Field

**Altamont Oil & Gas Inc
Patrick M. Montalban
Petroleum Consultant
PO Box 488
Cut Bank, MT 59427**

Resume

Spud Date: August 7, 2008

Completion Date: August 18, 2008

Status: Madison Sun River Dolomite Injection Well

Elevation: 4033' GR 4038' KB

Total Depth: 3415' Driller 3451' Logger

Hole Size: 8 3/4" (0 – 668')
6 1/4" (668' – 3415')
3 7/8" (3415' – 3451')
New Open Hole

Casing Size: 7", 17#/ft, Ltd, ST&C, set @ 664.30' KB cemented w/260sacks Class G Cement
4 1/2", 10.5#/ft, API, J55, ST&C, Rge 3 set @ 3418' KB w/125 sacks Class G Cement.

Perforations: None

Bridge Plug: None

Open Hole: 3418' – 3499' KB

Tubing: 107 joints 2 3/8", 4.7 #/ft, API, J55, Rge set @ 3366.36

Seating Nipple: 3365.16 KB

Rods: None

Pump: None

Pumping Unit: None

Status: Injection Well

Daily Activity Summary

Wednesday
September 14, 2022

70°F – Partly Cloudy – Smokey – NW wind @ 10 mph.
Began operations @ 3:00 pm. Moved in and rigged up
Liquid Gold Well Service Rig No. 6. Unseat 4 1/2" x 2 3/8"
AD-1 packer. Trip 107 joints of 2 3/8", 4.7#/ft, J55, API
out of hole. Strapped out of the hole. 4 1/2" x 2 3/8" AD-1
packer looked good. Shut down operations @ 7:00 pm

Total Rig Hours: 4hrs x \$260.00 = \$1,040.00
Pickup Travel: 1 hr x 1 hr x \$45.00/man \$135.00

Environmental = \$50.00
Fuel Surcharge: 10% = \$104.00

Total Costs = \$1,279.00

Thursday
September 15, 2022

60°F – Smokey – Partly Cloudy – Very little wind
Began operations @ 8:00 am. Moved in circulating tank
and power swivel. Haul H2O into location to fill tanks
and clean well out to total depth: 3451'. Ran 109 – 2 3/8",
4.7#/ft, J55, 8rd with 3 7/8" bit to clean out well to total
depth 3451'. Tubing as follows:

1 – 3 7/8" bit = 2.50'
1 – 2 3/8" seating nipple = 1.10'
109 – 2 3/8", 4.7#/ft, J55 8rd
ST&C = 3417.30'

Total String = 3420.90'
KB = 3.0 = 3.0'
3423.90'

Out 

1 – 3 7/8" bit = 2.50'
1 – 3 7/8" x 2 3/8" change over = 1.10'

109 – 2 3/8", 4.7#/ft, J55, 8rd
ST&C = 3417.30'

In 

Total String = 3420.90'
KB = 3.00'
3423.90' KB

Finish hauling equipment and H2O into circulating tanks.
Need to clean out 27' out of open hole.

Thursday
September 15, 2022

64°F – Smokey – Slight rain @ 3:00 pm.
Tagged tubing @ 3424' KB. Cleaned out 3 7/8" hole from
3424' to 3451'. Hard drilling. Could be drilling on float
collar from 4 1/2" casing. Total depth by operator 3451'
KB. Shut down operations @ 6:00 pm.

Total Rig Hours: 10 hrs x \$260.00	=	\$2,600.00
Daily Pickup: 2 trucks x \$60.00	=	\$170.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$370.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$550.00
Power Swivel	=	\$550.00
Bit Sub	=	\$50.00
3 7/8" Bit	=	\$200.00
Trailer Rental	=	\$100.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$5,235.00

Other Costs

Winch Truck: \$165.00/hr 5 x \$165.00		\$825.00
Tanker: 2 hrs x \$165.00/hr	=	\$330.00
Vacuum Truck: \$145.00/hr x 2 hrs	=	\$290.00
Environment Safety	=	\$75.00
Fuel Surcharge	=	<u>\$144.00</u>
		\$1,664.50

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs	=	\$7,709.50
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Friday
September 16, 2022

55°F – Little Smokey – Little wind – Slight rain
Began operations @ 8:00 am. Circulate & clean out well bore. Continue to torque up 3451'. Lose approximately 5 - 6 bbls of H2O overnight and while cleaning well bore. Drill on float collar on bottom & finish cleaning well bore. Trip out 109 – 2 3/8", 4.7#/ft, J55, 8rd joints of tubing with 3 7/8" bit. Remove bit and change over and trip in hole with 107 – 2 3/8", 4.7#/ft, J55, 8rd joints of tubing with 4 1/2" x 2 3/8" AD-1 packer. Shut down operations @ 3:30 pm.

Total Rig Hours: 7 1/2hrs x \$260.00 =	\$1,950.00
Daily Pickup: 2 trucks = 2hrs x \$60.00	\$120.00
Pickup Travel: 2hrs x \$45.00/man =	\$270.00
Fuel Surcharge: 10%	= \$305.00
Environmental & Safety	= \$50.00
Supervisor & Tool Pusher	= \$350.00
Pump and Tank	= \$550.00
Power Swivel	= \$550.00
Change Over for Bit	= \$50.00
Wellhead Rubber	= \$300.00
Trailer	= \$100.00
Pipe Dope	= <u>\$25.00</u>
Total Daily Costs	= \$4,620.00
1 day consulting: \$1500/2	= \$750.00
Mileage: 60 miles x \$1.00	= <u>\$60.00</u>
	\$810.00
Total Costs	= \$5,430.00

Monday
September 19, 2022

60°F – Partly Cloudy
Began operations @ 8:00 am. Well on a vacuum. Set 4 1/2" x 2 3/8" AD-1 packer with 15,000#/s over string weight. Tubing string as follows:

1 – 4 1/2" x 2 /38" AD-1 Packer	=	2.50'
1 – 2 3/8" Seating Nipple	=	1.10'
107 joints 2 3/8", 4.7#/ft, J55 8rd, ST&C	=	3366.36'
Total String	=	3369.96
KB	=	<u>3.00'</u>

Packer set @ = 3372.96' KB

Pressure tested and pressure up backside to 500#/s. Held OK. Acidized well with 100 gallons 28 Hcl. Acid job as follows:

Acid Job = 1000 gallons 28% Hcl

Pumped 1.0 bbls acid @ 1.5 bbl/min @ 500#/s
Pumped 2.3 bbls acid @ 1.5 bbl/min @ 750#/s
Pumped 10 bbls acid @ 1.5 bbl/min @ 1000#/s
Pumped 10 bbls acid @ 1.5 bbl/min @ 1000#/s
Total 23.8 bbls acid

Pumped 5.0 bbls of water after acid job. Shut down for 5 minutes and pressure dropped form 1000#/s to 500#/s.

Over-Displaced Acid job with 35 bbls as follows:

Pumping @ 3.0 bbls/min @ 1250#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1500#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1750#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1850#/s 5 bbls displaced

Total 35.0 bbls displaced

Instant Shut in = 1500#/s
5 min shut in = 1100#/s
10 min shut in = 900#/s
15 min shut in = 800#/s

Well flowed back 11.0 bbls after acid job. Tripped in with 3 7/8" bit and sub and tagged on the 100th joint. Tubing string as follows:

1 - 3 7/8" Bit = 2.50'
1 - 3 7/8" x 2 3/8" changeover sub = 1.10'

110 joints of 2 3/8" x 4.7#/ft, J55
8rd, ST&C Tubing = 3460.70'
3464.30'
3' KB = 3.00'
Total String = 3467.30' KB

Drilled down on the 110th joint. Drilled fairly easy with a few tight spots. Shut down operations @ 6:00 pm

Total Rig Hours: 10hrs x \$260.00	=	\$2,600.00
2 Trucks: 2 x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$370.00
Environmental & Safety	=	\$50.00
Supervisor & Tool Pusher	=	\$350.00
New 3 7/8" Bit	=	\$1,400.00
Pump and Circulating Tank	=	\$550.00
Power Swivel	=	\$550.00
Trailer	=	\$100.00
Tubing Wiper Rubber	=	\$25.00
Bit Changeover 3 7/8" x 2 3/8"	=	\$50.00
Pipe Dope	=	\$25.00
1 – 4 1/2" AD-1 Packer (Acid Job)	=	<u>\$250.00</u>
		\$6,710.00

1000 gallon 28% Hcl Acid Job

1 – Acid Pump Truck	=	\$1,600.00
1 – Bulk Acid Truck	=	\$750.00
Bulk Mileage: 4.00/mile	=	\$160.00
1000 gallons 28% Acid \$3.25/gallon		\$3,250.00
Additives	=	\$549.50
Fuel Surcharge: 10%	=	\$301.00
Environmental	=	\$75.00
2 Travel \$45.00/man	=	<u>\$90.00</u>
		\$7,164.50

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily = \$14,684.50

**Tuesday
September 20, 2022**

**49°F – Partly Cloudy – Wind from N to NW.
Began operations @ 8:00 am. Picked up 111 joint and
drilling. Tubing string as follows:**

1 – 3 7/8" Bit	=	2.50'
1 – 3 7/8" x 2 3/8" change over	=	1.10'
111 joints 2 3/8" x 4.7#/ft		
J55, 8rd, ST&C Rge 3	=	3492.28'
Total String	=	3495.88'
3.0 KB	=	<u>3.00'</u>
		3498.88' KB

Drilled to total depth 3498.88 KB. Drilling fairly well.
 Drilling slows down after a break. Have not lost volume.
 Drilled to total depth 3499' KB Shut down operations @
 5:30 pm

Total Rig Hours: 9 ½ hrs x \$260.00=	=	\$2,410.00
Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/hr/man	=	\$270.00
Fuel Surcharge: 10%	=	\$357.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$350.00
Power Swivel	=	\$550.00
Trailer	=	\$100.00
BA Sub and Cross Over	=	\$50.00
Pipe Dope	=	<u>\$25.00</u>
		\$4,892.00
Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total Costs	=	\$5,702.00

Wednesday
 September 21, 2022

32°F – Sunny – No Wind
 Began operations @ 8:00 am. Circulated and clean open hole to 3499' KB by operator. Circulated hole 30 minutes to clean to total depth. Tripped 3 7/8" bit and tubing out of hole. Tripped in 4 ½" x 2 3/8" AD-1 packer for acid job. Tubing string as follows:

1 – 4 ½" x 2 3/8" AD-1 Packer	=	2.50'
1 – Seating Nipple	=	1.10'
107 joints 2 3/8", 4.7#/ft, J55, 8rd Tubing	=	3366.36'
Total String	=	3369.96'
KB	=	<u>3.00'</u>
		3372.96 KB

Circulated corrosion inhibitor on the backside. Set 4 ½" x 2 3/8" AD-1 packer set @ 3372.96 KB with 15,000 #/s over string weight. Pressure up backside to 500#/s. Held OK. Need to repair pump truck. Shut down operations @ 5:00 pm.

Total Rig Hours: 9 hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60/truck	=	\$120.00

Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$289.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$550.00
Power Swivel	=	\$200.00
Redress 4 ½" AD Packer	=	\$500.00
Bit Crossover Sub	=	\$50.00
Dope	=	\$25.00
Trailer	=	<u>\$100.00</u>
Total Daily Costs	=	\$4,844.00

Other Costs		
1 Pump Truck	=	\$750.00
Vacuum Truck: 2 hrs x \$145/hr	=	\$290.00
Environmental: \$75.00/day	=	\$75.00
Fuel Surcharge: 10%	=	<u>\$104.00</u>
Total Costs	=	\$1,219.00

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
Total Costs	=	\$810.00

Total Daily Costs = \$6,873.00

Thursday
September 22, 2022

46°F – Cloudy – Slight Rain – Wind from SW
Began operations @ 10:00 am. Moved in and rigged up
Liquid Gold Well Service Acid Bulk Truck and Pump
Truck. Acidized well with 1000 gallons 28% Hcl.
Acid job as follows:

1000 gallons 28% Hcl Acid
23.8 bbls of Acid
13.55 bbls of tubing volume

Began job @ 10:52 am:

Pumped 28.0 bbls of acid from 300#/s to 800#/s @ 1.5
bbls/minute
Finished pumping acid @ 800#/s @ 1.5 bbls/minute
Shut down and pressure dropped to 500#/s

Displaced 48.0 bbls as follows

Pumped 13.5 bbls 110#/s @ 1.6 bbls/minute
Over-displaced by 35bbls as follows

Pumped 5.0 bbls @ 1600#/s @ 3 bbls/minute
Pumped 10.0 bbls @ 1650#/s @ 3 bbls/minute
Pumped 10.00 bbls @ 1700#/s @ 3 bbls/minute
Pumped 10.0 bbls @ 1700#/s @ 3 bbls/minute

Pumped 48.5 bbls displacement

Instant shut in	=	1100#/s
5 min shut in	=	650#/s
10 min shut in	=	350#/s
15 min shut in	=	200#/s

Well in a vacuum. Rigged down Liquid Gold Well Service. Ran MIT test for state @ 3:00 pm. Pressured up backside to 345#/s. Slow leak. Moved packer and pulled 15,000#/s over packer. Pressure tested to 350#/s. Failed test. Pulled tubing and packer to repair leak. Shut down operations @ 5:30 pm

Total Rig Hours: 7 ½ hrs x \$260.00=	=	\$1,950.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$250.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$500.00
Tailer	=	<u>\$100.00</u>
Total Costs	=	\$3,640.00

Acid Job

1 Pump Truck	=	\$1,600.00
Bulk Acid Truck	=	\$750.00
Bulk Mileage: 4.05/miles	=	\$160.00
1000 Bulk Acid: 3.25/gallon	=	\$3250.00
Additions	=	\$684.50
Fuel Surcharge: 10%	=	\$280.50
2 Vacuum Trucks: \$145.00/load	=	\$290.00
Environmental & Safety	=	<u>\$75.00</u>
Total Costs	=	\$7,254.50

MI Test

Tanker Truck: 2 ½ hrs x \$165.00	=	\$412.50
Vacuum Truck: 2 ½ hrs x \$145.00	=	\$290.00
Pickup: 1 truck x \$60.00	=	\$60.00
Travel: 1 hr x \$45.00/man	=	\$90.00
Fuel Surcharge: 10%	=	<u>\$70.00</u>
Total Costs	=	\$922.50

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
Total Costs	=	\$810.00

Total Costs = \$12,627.00

**Friday
September 23, 2022**

**55°F – Clear – Slight wind from the East
Began operations @ 8:00 am. Tripped 2 3/8", 4.7#/ft, J55, 8rd, with 4 1/2" scraper to 3373' KB. Added 10' tubing sub and cleaned to 3383 KB. Dropped standing valve and pressured tubing to 500#/s. Slow leak. Pressure testing tubing to 1000#/s. Could not find hole. Ran 45 joints, ran 24 joints and ran 12 joints would hold 1000#/s and slowly leak off. Ran 2 more joints would not hold. Ran 83 joints into hole. Shut down operation for night. Did not find tubing leak. Shut down operations @ 4:00 pm.**

Total Rig Hours: 8 hrs x \$260.00	=	\$2080.00
Daily Pickup: 2 hrs @ \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$208.00
Environmental and Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Redress 4 1/2" AD-1	=	\$500.00
4 1/2" Scraper	=	\$150.00
3 7/8" Bit on Scraper	=	\$200.00
Trailer	=	\$100.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$4,053.00

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Costs \$4,863.00

**Tuesday
September 27, 2022**

**82°F – Clear – Wind from South 8 -10 mph
Tripping in hole and pressuring tubing to find leak. Pressured to 2000#/s and Held OK. Added 2 joints and pressured to 2000#/s. Slow leak. Found leak on the 100th joint. Very small leak. Could not find without pressure on tubing. Tripped 2 3/8" x 4.7#/ft, J55 with 4'6" packer. Fished standing valve with sand line. Tubing string as follows. Replace 110 joint was 31.70' with a new joint of 31.60'.**

1 – 4 1/2" AD-1 Packer	=	2.50'
1 – 2 3/8" Seating Nipple	=	1.10'

107 joints 2 3/8", 4.7#/ft, J55 8rd tubing	=	3366.26'
---	----------	-----------------

Total String = 3369.86 Gr

$$3.0' \text{ KB} = \frac{3.0'}{3372.86 \text{ KB}}$$

Filled the backside with produced H2O. Ran MIT on well as follows

MIT Test
Began @ 4:32 pm

<u>Time</u>	<u>Pressure</u>	<u>Time Sch</u>
4:32 pm	360#/s	0
4:37 pm	360#/s	4:37 5 minutes
4:42 pm	360#/s	4:42 10 minutes
4:47 pm	360#/s	4:47 15 minutes

MIT Passed

Tuesday
September 27, 2022

83°F – Sunny – 5 -10 mph from SW
Passed MIT test. Shut down operations @ 5:00 pm

Total Rig Hours: 9hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$249.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Water Truck: 2 hrs x \$75.00	=	\$150.00
Pipe Dope	=	\$25.00
Redress 4 ½" AD-1 (new rubber, shewing and labor)	=	<u>\$200.00</u>
Total Costs	=	\$3,704.50

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Cost = \$4,514.50

Wednesday
September 28, 2022

56°F – Sunny – Slight wind @ 5-10 mph from S
Began operations @ 8:00 am. Circulating hole with fresh water and corrosion inhibitor. Set 4 ½" x 2 3/8" AD-1 with 12,000#/s over string weight. Test MIT and lost a few pounds. Pulled 22,000#/s over string weight. Ran MIT test for State Inspector Gary Klotz

<u>Time</u>	<u>Pressure</u>	<u>Elapsed Time</u>
9:56 am	378#/s	0
10:01 am	375#/s	5 min
10:06 am	375#/s	10 min

10:11 am 375#/s 15 min

Passed MIT @ 10:11 am. Passed by State of MT
Inspector Gary Klotz. Rigged down Liquid Gold Well
Service. Moved rig to yard. Shut down operations @
11:00 am

Total Rig Hours: 3 hrs x \$260.00	=	\$780.00
Daily Pickup: 2 hrs x \$60.00	=	\$120.00
Rig Travel: 3 ½ hrs x \$45.00/man	=	\$785.00
Fuel Surcharge: 10%	=	\$158.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Water Truck: 2 hrs x \$75.00	=	<u>\$150.00</u>
 Total Costs	=	\$393.00

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

 Total Costs	=	\$3,203.00
------------------------	----------	-------------------

Total Workover Costs	=	\$66,885.00
-----------------------------	----------	--------------------

CHECK SHEET

Date: 4/21/2008 API Number: 073-21830
Company: ~~AltaMont Oil & Gas Inc.~~ Mountain View Energy Inc.
Well Name: Jody Field 34-1
County: Pondera
Field: Wildcat Pondera Loneman Conlee
Surf. Location: 330 FSL 2310 FWL SE SW Lot: Sec: 34 Twp: 29 N Rng: 6 W

Permit Number: 26562 Drilling Fee:

Intention to Drill: 4/21/2008 Expiration Date: 10/21/2008

Mineral Ownership: Private State Federal Indian

Well Type: Vertical Multiple Laterals

Proposed Depth/Formation: MD: 3450 TVD: Sun River Dolomite

Drilling Unit Acres Description:

Samples Required: Received:

COMPLETION INFORMATION

Completion Date: MAY 6, 2008 TD: 3543 PBDT: N/A

Completed As: Oil Well IP / Formation: Madison

Geological Well Report: Mud Log:

Sundry Notices: Chg. of Opr. 8-17-10

Intent - Add Madison 6-6-11

Subsequent Report of Abandonment: Received: Approved:

Electric Logs: PE CN. TSD / PE AS. GR / PE CN. Lithodensity. AI / 1.7.09
GR. CBL 7.22.09

Miscellaneous:

CHANGE OF OPERATOR RECORD

JODY FIELD 34-1
29N, 6W, Sec. 34: SESW
API #073-21830

TO: Mountain View Energy, Inc.
FROM: Altamont Oil & Gas, Inc.
DATE: August 17, 2010

RECEIVED

Form No. 4 R 4-85

FEB - 5 2009

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

(SUBMIT IN TRIPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

MONTANA BOARD OF OIL
& GAS OWNERS. BILLINGS

LOCATE WELL CORRECTLY

		34	

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease JODY FIELD Well No. #34-1

Address PO BOX 488 - CUT BANK MT 59427 Field (or Area) WIDL CAT

The well is located 330 ft. from (S) line and 2310 ft. from (W) line of Sec. 34

Sec. 34; T. 29N; R. 6W; County PONDERA; Elevation 4071' GL
(D.F., R.B. or G.L.)

Commenced drilling APRIL 30, 2008; Completed MAY 6, 2008

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)

Signed [Signature]
PATRICK M. MONTALBAN

API# 25-073 - 21830

Title PRESIDENT & CEO

Date DECEMBER 31, 2008

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>3428'</u> to <u>3432'</u> Water	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	674.94'	0	674.94'	175 Sacks	Class G Cement
4-1/2"	10.5#/ft	J55	ST&C	3539.71'	674.94'	3535.71'	100 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations

COMPLETION RECORD

Rotary tools were used from 0 to 3540' 3543
Cable tools were used from _____ to _____
Total depth 3540 ft.; Plugged back to _____ T.D.; Open hole from _____ to _____
3543

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3428'	3432'	3-1/8" HSD - 17 Shots				
3440'	3442'	3-1/8" HSD - 9 Shots				
3442'	3446'	3-1/8" HSD - 17 Shots				

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from MADISON (pool) formation.
Swab tested 2 to 3 percent oil cut
I.P. _____ barrels of oil per _____ hours (pumping or flowing)
Mcf of gas per _____ hours.
_____ barrels of water per _____ hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
	NONE							

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
Platform Express		
Compensated Neutron	675'	3535'
Three Detector		
Density	675'	3535'

FORMATION RECORD
 (ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

RECEIVED

JAN -7 2009

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Electric Log Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1780	+2296
Blackleaf Bentonite Marker	1820	+2256
Blackleaf Sandstone	1826	+2250
Base Fish Scales	--	--
1 st Bow Island	1878	+2198
2 nd Bow Island	2030	+2046
3 rd Bow Island	2132	+1944
4 th Bow Island "A"	2376	+1700
4 th Bow Island "B"	2423	+1653
Dakota	2544	+1532
Kootenai	2586	+1490
Sunburst	3081	+995
<u>Jurassic</u>		
Morrison	3152	+924
Swift	3186	+890
Swift Shale	3274	+802
Rierdon(Ellis Shale)	3327	+749
Sawtooth	3404	+672
<u>Mississippian</u>		
Madison(Sun River Dolomite)	3428	+648
<u>Total Depth:</u>	3543	+533

FORM NO. 22 R7/99

SUBMIT IN QUADRUPLICATE TO:

ARM 36.22.307
ARM 36.22.601**MONTANA BOARD OF OIL AND GAS CONSERVATION**
2535 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102Lease Name:
JODY FIELD #34-1Lease Type (Private/State/Federal):
PRIVATE

Well Number:

34-1

Unit Agreement Name:

Field Name or Wildcat:

WILDCAT

Objective Formation(s):

BOW ISLAND, SUNBURST & MADISON

Section, Township, and Range:

SECTION 34-T29N, R6W

County:

PONDERA

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONSERVATION, BILLINGS**Application for Permit**To: Drill Deepen Re-enter
Oil Gas Other

Operator: ALTAMONT OIL & GAS, INC

Address PO BOX 488

City CUT BANK State MT ZIP 59427

Telephone Number (406) 873-9000

Surface Location of Well (quarter-quarter section and footage measurements)

SESW-SECTION 34-T29N-R6W
(330' FSL x 2310' FWL)

(If directionally drilled, show both surface and bottom hole locations above)

Proposed total depth 3,450'	Formation at total depth MADISON/SUN RIVER	Elevation (indicate GL or KB) 4071' GL
Size and description of drilling/spacing unit 40 ACRES (SESW)	API number of another well on this lease (if any)	Anticipated spud date

Hole size	Casing size	Weight/foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
8-3/4"	7"	17#/ft	J55	650'	245 sx	Class G
6-1/4"	4-1/2"	9.5#/ft	J55	3,450'	100 sx	Class G

Describe Proposed Operations:

Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.

Altamont Oil & Gas, Inc proposes to drill this well to test for oil and or gas in the Bow Island, Sunburst & Madison formations. No DST's or cores are planned. Surface casing will be cemented from surface to approximately 650' ensuring good returns to surface. The well will be drilled with air and drilling mud from casing point to TD. Open hole logs will be run from surface to TD. Production zones will be perforated & tested. Blowout equipment will be as indicated on the attached exhibit and will be tested at regular intervals.

BOARD USE ONLY

Approved (date) APR 21 2008 Permit Fee \$2500 / \$5000
 By Steve P. Stank Check Number 10003 / 11160
CHIEF FIELD INSPECTOR Permit Expires OCT 21 2008
 Title _____ Permit Number 26562

The undersigned hereby certifies that the information contained on this application is true and correct:

Signed (Agent) Patrick M. Montalban
Patrick M. MontalbanTitle President & CEODate 4/9/2008THIS PERMIT IS SUBJECT TO THE
CONDITIONS OF APPROVAL
STATED ON THE BACKAPI Number 25- 073 - 21830

Samples Required: NONE ALL FROM _____ feet to _____ feet
 Core chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:
 Montana Board of Oil and Gas Conservation
 2525 St. Johns Avenue
 Billings, MT 59102

SUPPLEMENTAL INFORMATION

Note: Additional information or attachments may be required by Rule or by special request.

- X 1. Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
- X 2. Attach an 8½ x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a ½ mile radius of the well.
- X 3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut /fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor.) Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications. N/A
5. Describe the proposed plan for the treatment and/or disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
N/A
6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:
- No additional permits needed
 - Stream crossing permit (apply through county conservation district)
 - Air quality permit (apply through Montana Department of Environmental Quality)
 - Water discharge permit (apply through Montana Department of Environmental Quality)
 - Water use permit (apply through Montana Department of Natural Resources and Conservation)
 - Solid waste disposal permit (apply through Montana Department of Environmental Quality)
 - State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
 - Federal drilling permit (specify agency)
 - Other federal, state, county, or local permit or authorization: (specify type) _____

NOTICES:

1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

WARNING: Failure to comply with conditions of approval may void this permit.

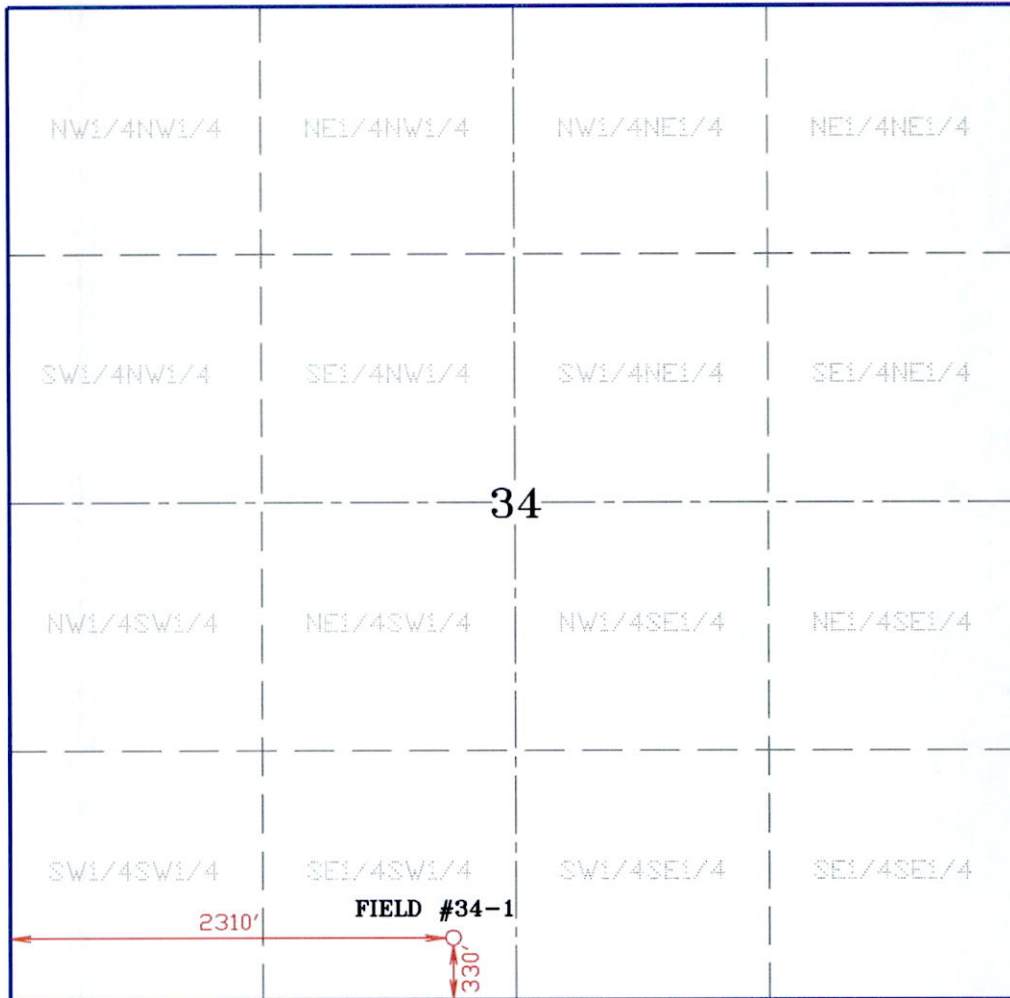
RECEIVED

WELL LOCATION

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA
330' FSL X 2310' FWL
ELEVATION BEFORE GRADING: 4071'

APR 14 2008

MONTANA BOARD OF OIL
& GAS COMB. BILLINGS



T29N R6W

ELEVATION BEFORE GRADING: 4071'
BASIS - NAVD 29

GEOGRAPHIC COORDINATES:
48°13'21.9" N 112°22'16.1" W (NAD 83 BASIS)

BASE POSITION FOR GEOGRAPHIC COORDINATES:
48°12'38.97587" N 112°22'44.76679" W (NAD 83 BASIS)
(NGS CONTROL POINT CONE, THIRD ORDER)

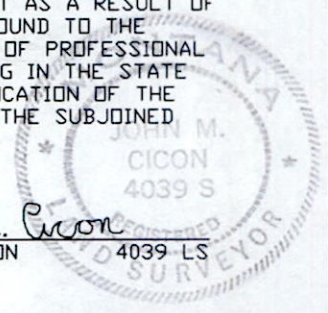
LAND USE: CULTIVATION (CRP)

NO ATTEMPT HAS BEEN MADE BY THE SURVEYOR TO LOCATE UNDERGROUND STRUCTURES OR BURIED UTILITIES, AND APPROPRIATE AGENCIES AND SURFACE LANDOWNERS MUST BE CONTACTED FOR FIELD LOCATION OF ANY UNDERGROUND STRUCTURES OR BURIED UTILITIES BEFORE ANY CONSTRUCTION COMMENCES. CALL 1-800-424-5555 BEFORE ANY CONSTRUCTION COMMENCES.

NOTE: SUBDIVISION LINES AND GOVERNMENT LOT BOUNDARIES ARE SHOWN FOR DEPICTIVE PURPOSES ONLY AND SHOULD NOT BE USED FOR SCALING OR LOCATION PURPOSES.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION AND BELIEF, I CERTIFY THAT AS A RESULT OF A SURVEY MADE ON THE GROUND TO THE NORMAL STANDARD OF CARE OF PROFESSIONAL LAND SURVEYORS PRACTICING IN THE STATE OF MONTANA, I FIND THE LOCATION OF THE FIELD #34-1 AS SHOWN ON THE SUBJOINED DRAWING.

John M. Cicon
JOHN M. CICON 4039-LS




REQUESTED BY: ALTAMONT OIL & GAS, INC.
P.O. BOX 488
CUT BANK, MONTANA 59427

SCALE 1"=1000'

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.

02-21-08

 CICON AND ASSOCIATES
BOX 541
CHESTER, MONTANA 59522

JOB NO. 08-010

DRAWING NO. 08010ALTASIG.DWG

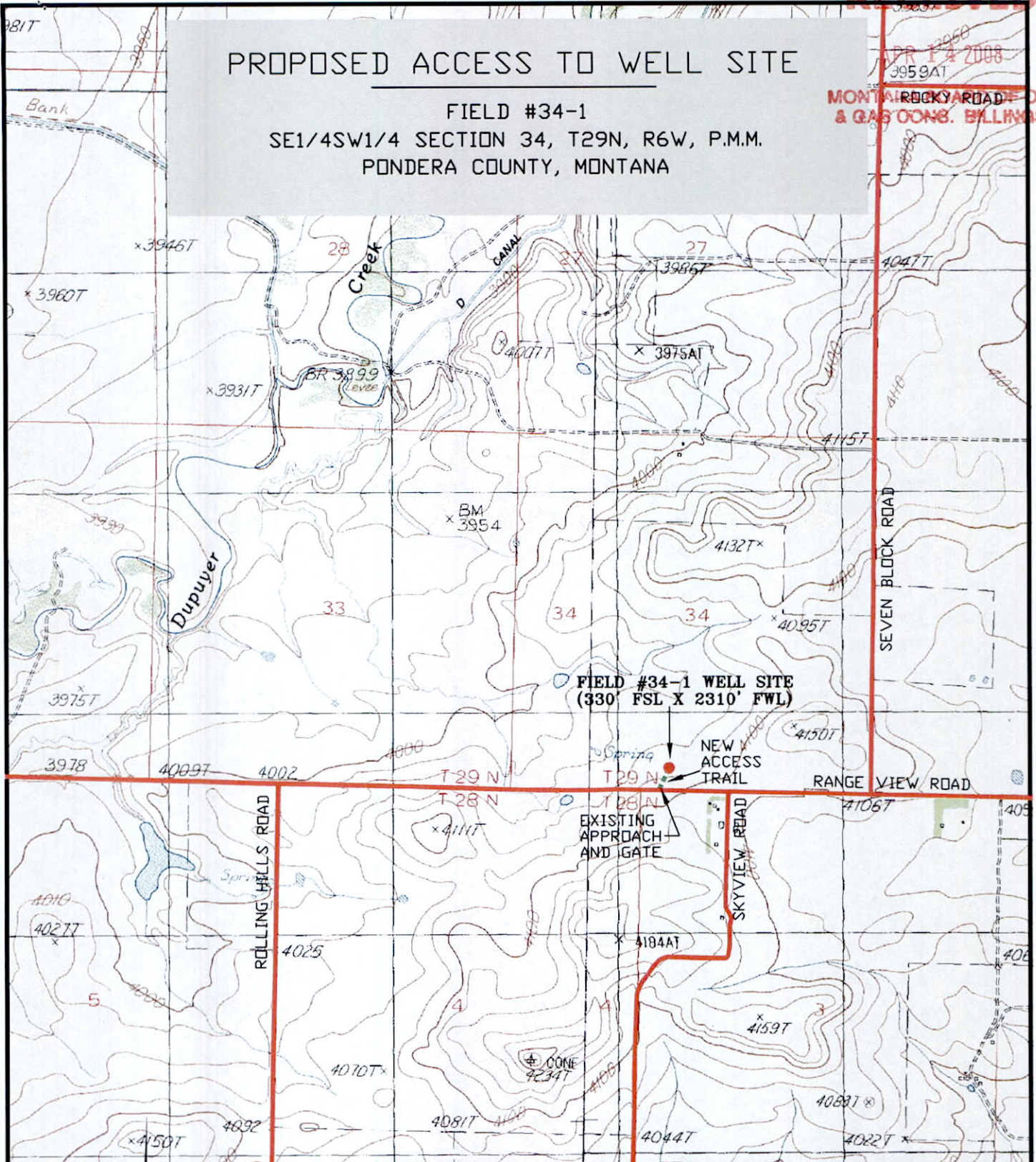
SHEET 1 OF 3

RECEIVED

PROPOSED ACCESS TO WELL SITE

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA

APR 14 2008
MONTANA ROCKY MOUNTAIN OIL & GAS CONS. BILLINGS




REQUESTED BY: ALTAMONT OIL & GAS, INC.
P.O. BOX 488
CUT BANK, MONTANA 59427

SCALE 1"=2000'

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.

02-21-08

 CICON AND ASSOCIATES
BOX 541
CHESTER, MONTANA 59522

JOB NO. 08-010

SCALE 1" = 2000'

DRAWING NO. 08010TDPD.DWG

PAGE 3 OF 3

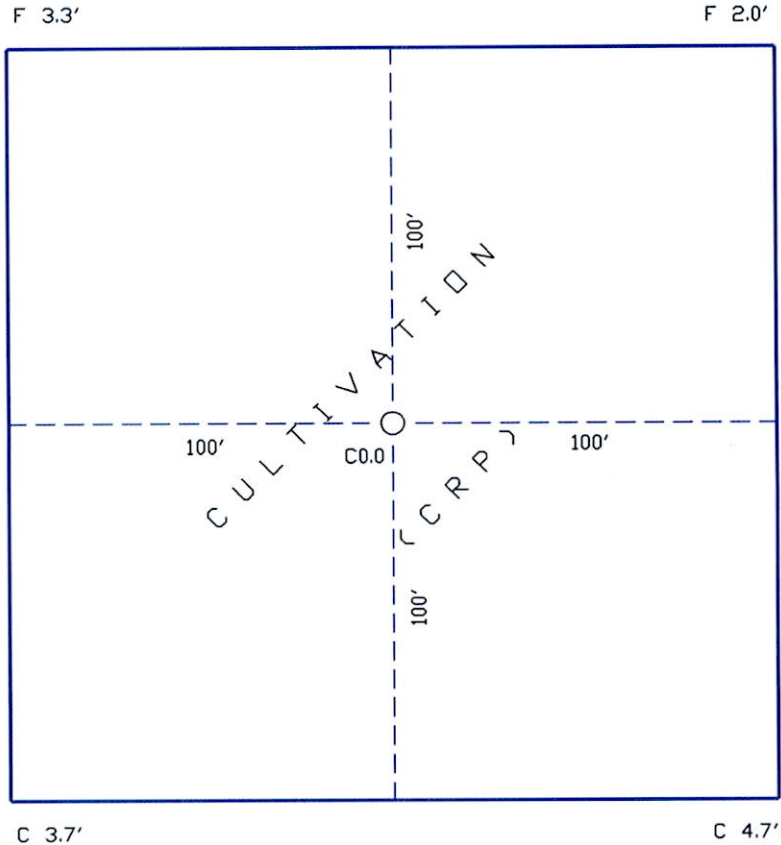
RIG PAD SITE

FIELD #34-1
 SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
 PONDERA COUNTY, MONTANA

RECEIVED

APR 14 2008

**MONTANA BOARD OF OIL
 & GAS COMB. BILLINGS**

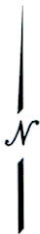


GENERAL CUTS AND FILLS OF PROPOSED RIG PAD


LAND USE: CULTIVATION (CRP)

ELEVATION OF LOCATION BEFORE GRADING: 4071'
 BASIS OF ELEVATIONS: NAVD 29

NOTE:
 CUTS AND FILLS NOTED ARE FOR PURPOSES OF DESCRIBING
 THE GENERAL TOPOGRAPHY OF THE PROPOSED RIG PAD AND
 ARE NOT INTENDED FOR CALCULATION OF DIRTWORK QUANTITIES
 OR OTHER CALCULATIONS.



SCALE 1" = 50'

REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=50'
FIELD #34-1 SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.	02-21-08
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 08-010
	SHEET 2 OF 3

DRAWING NO. 08010CDN.DWG

RECEIVED

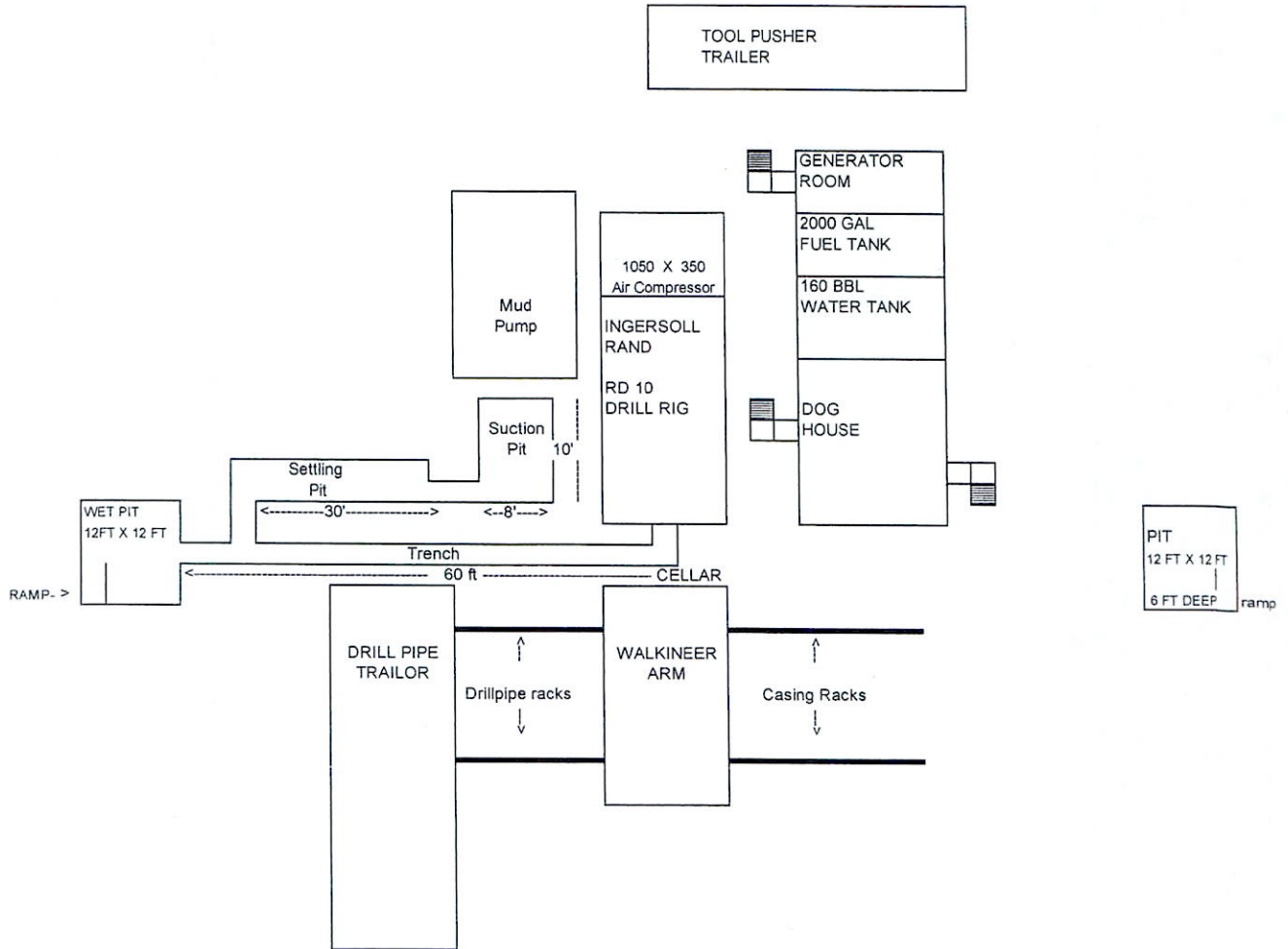
APR 14 2008

MONTANA BOARD OF OIL
& GAS CONSR. BILLINGS

LOCATION LAYOUT

Gasco Drilling LLC

P.O. Box 963 Shelby, Mt 59474 Phone (406) 434-3603 Fax (406) 434-3863



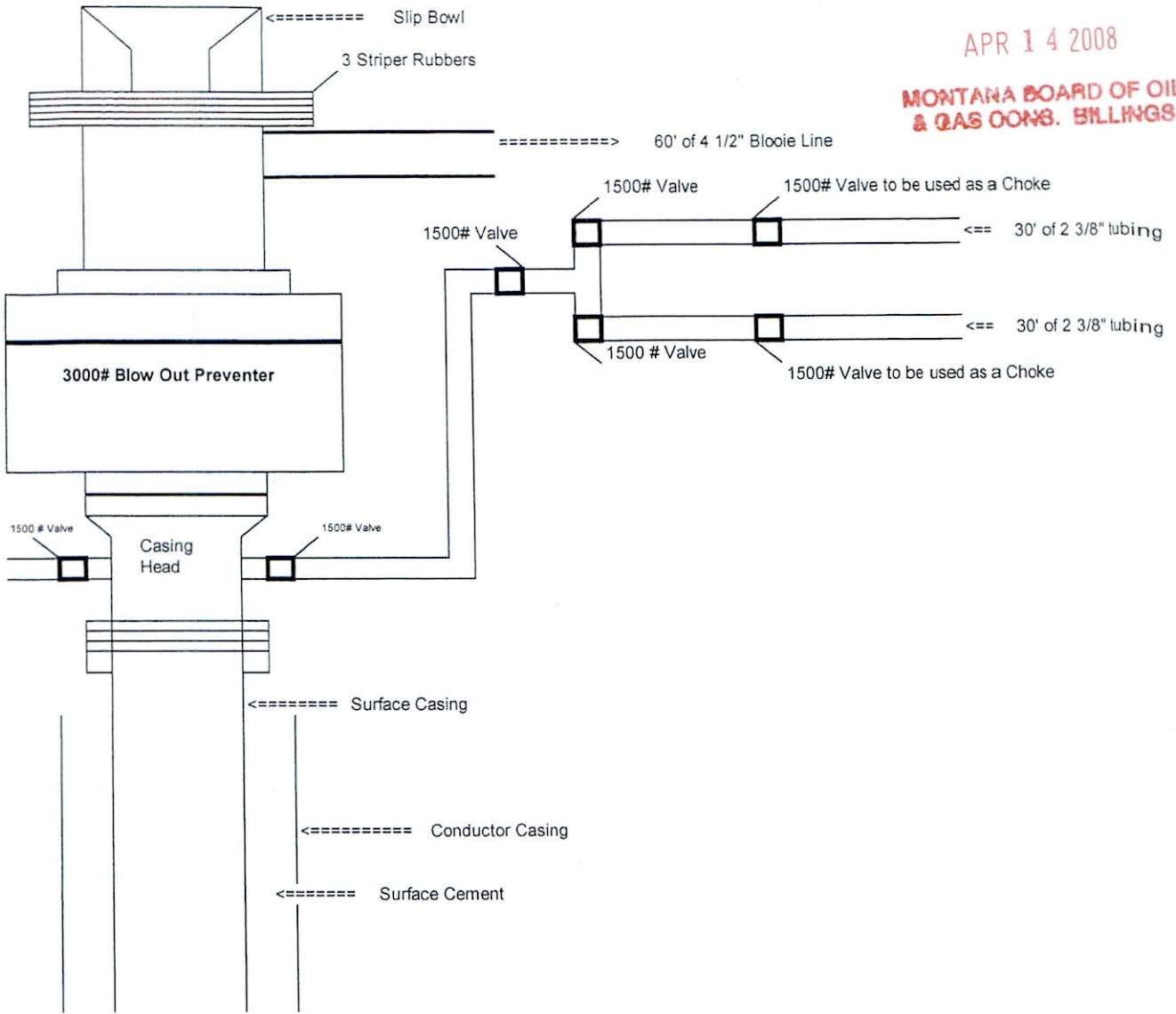
DIMENSIONS OF LOCATION: 200 X 200

SETTLING PIT IS 6' WIDE BY 45' LONG . SUCTION PIT 8' WIDE BY 10' LONG

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONS. BILLINGS



BOP STACK

RECEIVED

MAY 28 2004

ALTAMONT OIL & GAS, INC

RECEIVED

APR 14 2008

REGAN OFFSHORE INTERNATIONAL, INC.

Torrance, Calif.

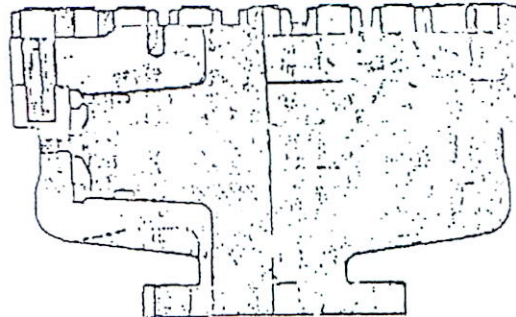
MONTANA BOARD OF OIL & GAS CONG. BILLINGS

REGAN BLOWOUT PREVENTERS

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 2000 PSI working pressure

DESIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
 - b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore. The packer will seal on open hole at full working pressure.
- The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



TORUS BLOWOUT PREVENTER PATENTED

SPECIFICATIONS

Nominal Size	Test Pressure (PSI)	DIMENSIONS (IN.)			Weight (LBS.)	End Flanges (1)	O/RK (Line Connect)	Stab Outlet
		Outside Diameter	Thru Bore	Overall Height				
6	1000	21 1/4	21 1/4	21 1/4	1300	Nom. B	61	None
8	1000	27 1/4	27 1/4	27 1/4	1550	Nom. B	61	2" L.P.
10	1000	33 1/4	33 1/4	33 1/4	2075	Nom. B	61	None
12	1000	39 1/4	39 1/4	39 1/4	2400	Nom. B	61	2" L.P.

(1) Outside Flange Holes spaced 180 deg with 4 holes. 2000 W. 2 L.P. and 2000 G. 2 L.P. 18150 can be used with 2000 G. 2 L.P. 18150. Test Press. 1000 PSI. Standard for 2000 G. 2 L.P. 18150 design unless otherwise specified.

B.O.P. SPECIFICATIONS

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: <u>25</u> <u>073</u> <u>21830</u> State County Well		Well Type (oil, gas, injection, other): OIL	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) <u>CONVERT TO INJECTION WELL</u>	<input checked="" type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

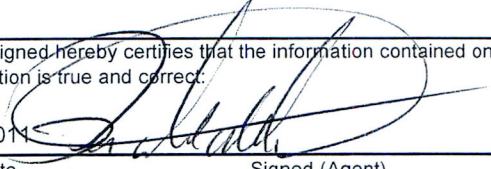
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

**SEE
STIPULATIONS
ON BACK**

BOARD USE ONLY	
Approved <u>AUG 11 2011</u>	Date
Original Signed By George Hudak, UIC Director	
Name	Title

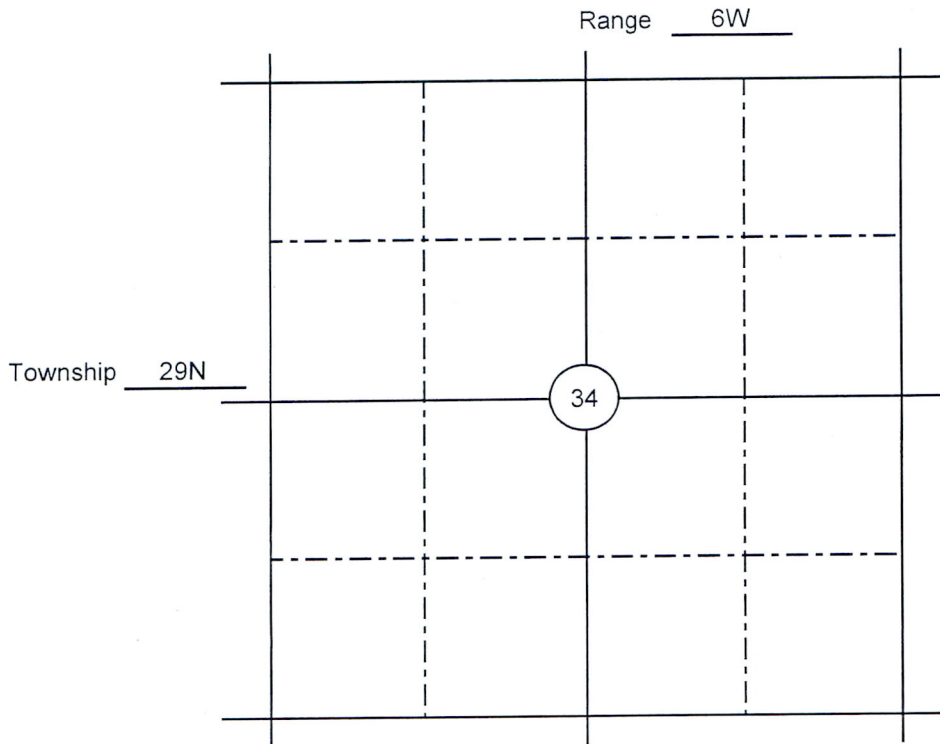
The undersigned hereby certifies that the information contained on this application is true and correct.

6/21/2011	
Date	Signed (Agent)
Patrick M. Montalban, President & CEO	
Print Name and Title	
Telephone: _____	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

- Injection well bond required before injecting.
- MIT required before injecting.
- Set packer 3328 ft. or deeper
- Injection pressure limited to 1,019 psig.
- An aquifer exemption must be approved by EPA before injecting. (sent to EPA 7-28-11).

Failure to comply with the conditions of approval may void this permit.

RECEIVED

JUN - 6 2011

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Well Type (oil, gas, injection, other): OIL	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input checked="" type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input checked="" type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>

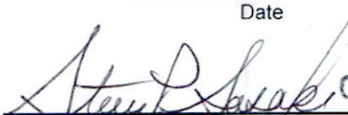
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

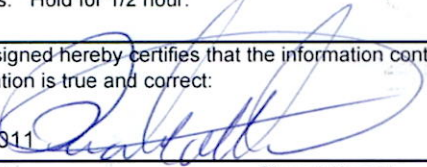
Move in and rig up. Dig drill hole to swab test. Perforate from 3448'-3452' and swab test for 4 hours. Additional perforations:
3452'-3460'
3460'-3466'
3470'-3480'
3480'-3490'
3490'-3496'

Rig up Liquid Gold Well Service and acidize well with 1,000 gallons of 28% HCl.

Run 4-1/2" packer and tubing in hole. Set packer at 3400'. Test packer to 1000 pounds. Hold for 1/2 hour.

BOARD USE ONLY	
Approved <u>JUN 06 2011</u>	Date
	CHIEF FIELD INSPECTOR
Name	Title

The undersigned hereby certifies that the information contained on this application is true and correct:

5/23/2011 

Date Signed (Agent)

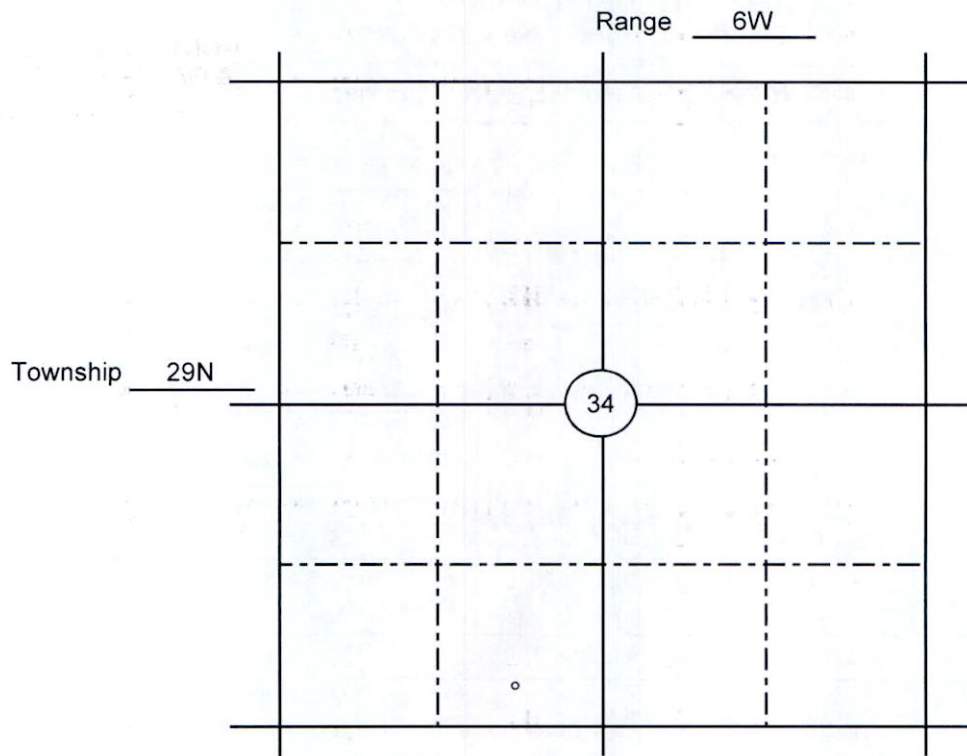
Patrick M. Montalban, President & CEO

Print Name and Title

Telephone: (406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.
Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

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MONTANA BOARD OF OIL
& GAS COMS. BILLINGS

SPUD INFORMATION

WELL NAME: Jody Field 34-1

API #: 25-073-21830

LOCATION: S 34 T29N 6W SE SW
(Twp-Rge-Sec: 1/4 1/4)

SPUD TIME: 11:30 Am Actual

DATE: 4-30-08

DRILLING COMPANY: Gasco

RIG #: # 7

CALLER'S NAME: Patrick Montalban

COMPANY NAME: Altamont Oil + Gas, Inc

OTHER: _____

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Altamont Oil & Gas, Inc.
Well Name/Number: Jody Field 34-1
Location: SE SW Section 34 T29N R6W
County: Pondera MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 4 to 5 days drilling time.
Unusually deep drilling (high horsepower rig): No, 3450' TD
Possible H₂S gas production: Yes
In/near Class I air quality area: No
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

- Air quality permit (AQB review)
- Gas plants/pipelines available for sour gas
- Special equipment/procedures requirements
- Other: _____

Comments: No special concerns – using small rig to drill to 3450' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.
High water table: No
Surface drainage leads to live water: No, closest drainages are some unnamed ephemeral tributary drainages to Dupuyer Creek, about 3/8 of a mile to the west and 1/2 mile to the northwest from this location.
Water well contamination: No, closest water wells are about 3/4 of a mile to the north and south of this location and these wells are 207' and 90' in depth. Surface casing will be drilled with air and/or freshwater mud to 650' and steel surface casing set and cemented to surface from 650'. Small spring located on topographic map, about 1/8 of a mile to the northwest from this location.
Porous/permeable soils: No, sandy bentonitic soils.
Class I stream drainage: No

Mitigation:

- Lined reserve pit
- Adequate surface casing
- Berms/dykes, re-routed drainage
- Closed mud system
- Off-site disposal of solids/liquids (in approved facility)
- Other: _____

Comments: 650' of surface casing will be set and cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems or air to be used for drilling surface hole.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, no stream crossings.

High erosion potential: No, small cut, up to 4.7' and small fill, up to 3.3', required.

Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite: No, 200'X200' location size required.

Damage to improvements: No, surface use is cultivated field (CRP).

Conflict with existing land use/values: Slight

Mitigation

Avoid improvements (topographic tolerance)

Exception location requested

Stockpile topsoil

Stream Crossing Permit (other agency review)

Reclaim unused part of wellsite if productive

Special construction methods to enhance reclamation

Other _____

Comments: Access will be over existing county road, Barrett FLDS. A short road will be constructed, about 300' into this location. Drill cuttings will be buried in the unlined cuttings pit. Drilling fluids will be allowed to evaporate in the pits. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence buildings about 3/8 of a mile to the east of this location.

Possibility of H2S: Yes

Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time.

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: No concerns

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: Lake Frances about 7.5 miles to the northeast.

Creation of new access to wildlife habitat: None identified.

Conflict with game range/refuge management: None identified.

Threatened or endangered Species: None identified.

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: _____

Comments: Private surface lands. No concerns

Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites: None identified, private surface.

Mitigation

avoidance (topographic tolerance, location exception)

other agency review (SHPO, DSL, federal agencies)

Other: _____

Comments: Private surface. No concerns.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns.

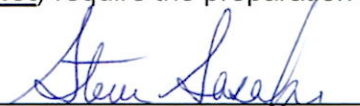
Remarks or Special Concerns for this site

Well is a 3450' Madison Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No, significant impacts expected, some short term impacts are expected, but should be able to mitigate these short term impacts.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki 

(title:) Chief Field Inspector

Date: April 15, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Pondera County water wells

(subject discussed)

April 15, 2008

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

AFFIDAVIT OF PUBLICATION
STATE OF MONTANA,
County of Lewis & Clark,

RECEIVED

APR - 9 2008

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Beverly Allison

Being duly sworn, deposes and says:

That she is the principal clerk of the Independent Record a newspaper of general circulation published daily in the City of Helena, in the County of Lewis & Clark, State of Montana, and has charge of the advertisement thereof:

That the Oil & Gas - Jody Fields #34-1

a true copy of which is hereto annexed, was published in said newspaper on the following dates: viz.: April 5, 2008

making in all 1 publication(s).

Beverly G Allison

Subscribed and sworn to before me this 5 day of April, 2008.

Rose Marie Farr

NOTARY PUBLIC for the State of Montana
Printed Name: Rose Marie Farr
Residing at Helena, Montana
My commission expires 8-15-2010

(NOTARIAL SEAL)

**BEFORE THE BOARD OF OIL AND GAS
CONSERVATION
OF THE STATE OF MONTANA NOTICE OF
INTENTION TO APPLY
FOR PERMIT TO DRILL
OIL AND GAS WELL**

In the Matter of the application of
ALTAMONT OIL & GAS, INC
for a Permit to Drill an oil and gas well.

1. PO Box 488
Cut Bank, Montana 59427
2. Jody Fields #34-1
SE/4SW/4 - Section 34-T29N-R6W
(330' FSL x 2310' FWL)
Pondera County, Montana
3. Total Depth Proposed to be Drilled:
3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE. OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY; THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL; AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
April 5, 2008

Affidavit of Publication

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONSERV. BILLINGS

STATE OF MONTANA)

County of Pondera) ss.

John H. Lee

John H Lee

being duly sworn upon his oath says: That he is the Publisher of "The Independent-Observer," a weekly newspaper of general circulation, published weekly at Conrad, in the County of Pondera, State of Montana.

That the notice hereunto attached was published in the said "Independent-Observer" once each week for one successive weeks.

That the first publication of said notice was on the 10 day of April, 2008.

That the last publication of said notice was on the day of n/a, 20.....

That the said notice was published in the regular and entire issue of every said "Independent-Observer" during the period and time of said publication, and in the newspaper proper, and not in a supplement.

John H. Lee
Title: Publisher

Sworn to and subscribed before me this 10 day of April, 2008
Nancy Zelenka

Nancy Zelenka

Notary Public for the State of Montana, residing at Conrad, Montana. My commission expires

June 1, 2010

LEGAL NOTICE

BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

In the Matter of the application of)
) NOTICE OF)
) INTENTION TO APPLY)
) FOR PERMIT TO DRILL)
) ALTAMONT OIL & GAS, INC)
) OIL AND GAS WELL)
) for a Permit to Drill an oil and gas well.)
) 1. PO Box 488)
) Cut Bank, Montana 59427)
) 2. Jody Fields #34-1)
) SE/4SW/4 - Section 34-T29N R6W)
) (330' FSL x 2310' FWL))
) Pondera County, Montana)
) 3. Total Proposed Depth: 3,450'

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Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
Published April 10, 2008

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APR 11 2008

ALTAMONT OIL & GAS, INC

GaSCO Drilling LLC										
P.O. BOX 636		Shelby MT 58474		Phone (406) 434-3023			Fax (406) 434-3883			
Daily Field Report										
OPERATOR: AltaMont Oil & Gas Inc.				Depth at report time		Feet (24 Hours)		Weather:		
Lease and well name: Jody Field 34-1				3540		288		42 high clouds		
County:	State:	Field Name:		Last casing (OD & Depth)		Date	REPORT #	Reported By:		
Pondera	Montana	Wildcat Pondera		7" at 1874.94'		5/5/2008	5	Bud Postma		
Activity at Report Time: Conditioning hole for logs										
From	To	Hours	Operations in Sequence							
07:00	17:15	10.25	Drill ahead with mud to 3415'							
17:15	18:15	1.00	Replace air hose on pump clutch							
18:15	02:30	8.25	Drill ahead with mud to 3540'							
02:30	03:30	1.00	Raise viscosity and condition hole							
03:30	04:00	0.50	Run survey 1 degree							
04:00	07:00	3.00	Short trip 1100'							
TOTAL HOURS		24.00								
CUMMED HOURS		120.00								
Mud Record:										
TIME	DEPTH	WT	VISC.	PH	WATER LOSS	COMMENTS				
09:30	3291	8.3	32	9.0	7.0					
12:30	3340	8.3	35	9.0	6.4					
18:00	3400	8.4	34	9.0	6.4					
20:00	3438	8.8	40	9.0	8.0					
24:00	3500	8.7	41	9.0	6.0					
04:00	3540	8.8	80	9.0	5.4	RAISE VISCOSITY FOR LOGS				
Bit Record:										
Bit #	Size	W.O.B.	R.P.M.	Make	Type	IN	OUT	JT. SZ	Ser. No.	Daily Costs
2	6 1/4	20000	70	REED	SL51H	1873	3540	OPEN	PN3484	WOB \$0.00
										WOC N/A
										STANDBY \$0.00
										DR-NOSE \$0.00
										FOOTAGE COSTS \$12300.00
Mud and Additives					Other Materials					DAY-WORK COSTS
35 Sacks Max-Gel					2 Loads Water					Permeable Tails: \$20.00
2 Sacks Poly Pac UL					Survey at 3540' 1 degree					Garbage: \$20.00
					Pason with gas analyzer at \$225.00					Grating Product: \$850.30
										Water and heating? \$400.00
										o \$0.00
										DAILY COST \$13599.30
										\$0.00
SUMMARY										TOTAL \$13599.30
Drill ahead with mud to 3540'. Build viscosity and condition hole. Run survey 1 degree. Short trip 1100' out. Conditioning hole at 07:00.										

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MAY - 5 2008

MONTANA BOARD OF OIL & GAS CONSB. BILLINGS

LIQUID GOLD WELL SERVICE, INC.

RECEIVED

Cement Work Order
Phone 406-873-2966
Fax 406-873-2997

P.O. Box 757
Cut Bank, MT 59427

JUN - 9 2008

Invoice # 2047

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

Company Altamont
Address _____
City/State _____
Lease _____ Well Joly Fields 34-1
Long String _____ Surface Pipe X P & A _____ Camera _____

Date 5-1-08
Sec. 34 Twn. 29N Rng. 6W
County Pondera
Field Wildcat

API # 25-073-21830

Hole Size <u>8 3/4"</u>	Casing <u>2 1/2" 675' + 9.5'</u>	Plug #1 <u>675'</u>	to <u>0'</u>	Sacs <u>175</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing _____	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>679'</u> PBT _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP <u>44.6'</u>	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Travel to location, rig up, pump 20 bbls poly water ahead, pump 175 sac cement, displace plug with 26.55 bbls water wash up and rig down
11 bbls cement returns Plug down @ 1:15 pm

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>40</u>	Pump Truck Mileage			
01	Bulk Cement Truck			
<u>40</u>	Bulk Truck Mileage X 9.4 ton			
<u>175.5x</u>	Bulk Cement			
<u>87.5#</u>	Cellophane			
<u>1gal.</u>	Polymer			
<u>493.5'</u>	CaCl			
<u>01</u>	Pick Up Charge X 40 miles			
<u>01</u>	Fuel surcharge 15% (PT + BT)			

Cementer

Tom Noland, Adam, Steven

Date 5-1-08

Agent of Owner or Contractor

[Signature]

Date _____

LIQUID GOLD WELL SERVICE, INC.

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

RECEIVED

P.O. Box 757
 Cut Bank, MT 59427

JUN - 9 2008

Invoice # 2048

MONTANA BOARD OF OIL
 & GAS CONG. BILLINGS

Company Altamont
 Address _____
 City/State _____
 Lease _____ Well # 34-1
 Long String Surface Pipe _____ P & A _____

Date 5-6-08
 Sec. 34 Twn. 29N Rng. 6W
 County Pondera
 Field Jody Feilds
 Camera _____

Hole Size	Casing	Plug #1	to	Sacs
<u>6 1/4"</u>	<u>4 1/2-3539.74'</u>	<u>3539.74'</u>	<u>2457.55'</u>	<u>1005X</u>
Drill Pipe	Casing	Plug #2	to	Sacs
Tubing	Casing	Plug #3	to	Sacs
TD <u>3540'</u> PBTB	Casing	Plug #4	to	Sacs
ECP <u>Flapper</u>	Casing	Plug #5	to	Sacs

Comments: Travel to location, rig up, take on water pump 10 bbls. Fresh water ahead, pump 1005x cement @ 10% salt and 10% fine mica, displace plug with 5697 bbls. water, pressure plug to 1000 # for 5 min. release pressure, wash up and rig down.

Plug down @ 1:30 AM

Quantity	Description	Unit	Disc.	Total
01	Cement Pump Truck			
40	Pump Truck Mileage			
01	Bulk Cement Truck			
40	Bulk Truck Mileage <u>4.7 ton</u>			
1005X	Bulk Cement			
0	Cellophane			
0	Polymer			
0	CaCl			
01	Pick Up Charge			
940 #	salt			
940 #	Mica			
1082'	cementing over 1500'			
01	Fuel surcharge 15% (P+BT)			

Cementer

Todd Motenda, Terrance, John

Date 5-6-08

Agent of Owner or Contractor

[Signature]

Date _____

RECEIVED

MAY 28 2008

Date 5-16-08 (406)652-4400



7069 Niehenka Ave. Billings, Montana 59101

MONTANA BOARD OF OIL & GAS CONG. BILLINGS

INVOICE # 14557 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Powdera LEGAL SE SE 1/4 - 28 N - 6 W

ELEVATION 4071 KB ELEVATION 4076 DRILLER TD 3540 FIELD Wildcat

COMPETITION PERSONNEL J Seifert, J Brown UNIT # 1115 Out Bank Mt

COMPANY Altamont Oil Boas, Inc BY [Signature]

ADDRESS Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
		Casing	Lb/Ft	From	To
4501 SERVICE CHARGE: Truck		7"	17#	Surface	675'
Mileage Logging unit @ per mile		4.5"	9.5#	Surface	3540'
Pickup @ per mile					
Mast/crane @ per mile					

Service 4536 Simultaneous Cement Ray
 Depth 3496'
 Oper. min operation chg

Service 4538 Acoustic Cement Bond Log
 Depth 3496'
 Oper. min operation chg

Service 4650 Perforate w/ 3/8" HPSlick
 Depth 3432'
 Oper. min shot charge

4645 Gun Barrel 4'

Service
 Depth
 Oper.

Service
 Depth
 Oper.

Service
 Depth
 Oper.

Service It. (caplin loss) Fu
 Depth Altamont / Field 5x1
 Oper. (Ray Cement Bond Log - 10' hole)

Service
 Depth
 Oper.

Fluid Water Level (surf) 1270'
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 CWS TD 3496 Driller TD 3540
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

PERFORATIONS			
Intervals	SPF	Total #	
3428-3432 (4)	4	17	

TOTAL PERFORATIONS: 17 Titan 19 gram Prospected

AFE #: APC#25-073-21830

Remarks:

EQUIPMENT, RENTALS, PERSONNEL

4592 Pressure Control / Pack Off	
	subtotal
	discount
	subtotal

MATERIALS

4518 EHP Charge	
4504 Mileage 80 miles	field total

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Witnessed by: Patrick Montalban
 Competition WS Starbuck Seifert
 (Please Print)

Original - Please pay from this invoice - Due 30 days from above date.

Date 5-21-08 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 14560 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Pondera LEGAL SESE SW 34-29N-6W

ELEVATION 4071' KB ELEVATION 4076' DRILLER TD 3540 FIELD Witelcat

COMPETITION PERSONNEL S Seifert, [REDACTED], ABrown J Brown #115, CutBank MT

COMPANY Altamond Oil & Gas Inc BY [Signature]

ADDRESS Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
<u>4501</u>	SERVICE CHARGE: <u>Truck</u>	Casing	Lb/Ft	From	To
	SERVICE CHARGE:	<u>7"</u>	<u>17#</u>	<u>Surface</u>	<u>675'</u>
	Mileage Logging unit @ _____ per mile	<u>4.5"</u>	<u>9.5#</u>	<u>Surface</u>	<u>3540'</u>
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4650 Perforate W3 1/2 HP Slick
 Depth 3442 @ .18' / ft depth chg
 Oper. 9 shot @ min shot chg
4645 Gun Barrel 2 ft.

Fluid _____ Level (surf) _____
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 DWS TD 3496' Driller TD _____
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

Service _____
 Depth _____
 Oper. _____
 Service _____
 Depth _____
 Oper. _____
 Service _____
 Depth _____
 Oper. _____
 Service _____
 Depth _____
 Oper. _____
 Service _____
 Depth _____
 Oper. _____

PERFORATIONS

Intervals	SPF	Total #
<u>3440-3442 (2)</u>	<u>4</u>	<u>9</u>

RECEIVED

MAY 29 2008

MONTANA BOARD OF OIL & GAS CONG. BILLINGS

TOTAL PERFORATIONS: 9 Titan 19 gram Prospects

AFE #: API# 25-073-21830

Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

4592 Pressure Control Pack off
 subtotal
 discount
 subtotal

MATERIALS

4504 Mileage 80
4516 EHBS Charge
 field total

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Witnessed by: Patrick Montalban
 Competition WS Starbuck Seifert
 (Please Print)

MAY 28 2008

Date 5-16-08 (406)652-4400



7069 Niehenke Ave. Billings, Montana 59101

MONTANA BOARD OF OIL & GAS COMB. BILLINGS

INVOICE # 14557 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Powdera LEGAL SE 5E SW 4 - 28N - 6W

ELEVATION 4071 KB ELEVATION 4076 DRILLER TD 3540 FIELD Wildcat

COMPETITION PERSONNEL J Seifert, J Brown UNIT# 1115 Cut Bank Mt

COMPANY Altamont Oil & Gas, Inc BY [Signature]

ADDRESS

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
4501	SERVICE CHARGE: Truck	Casing	Lb/Ft	From	To
	SERVICE CHARGE:	7"	17#	Surface	675'
	Mileage Logging unit @ _____ per mile	4.5"	9.5#	Surface	3540'
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4536 Simultaneous Gamma Ray
 Depth 3496'
 Oper. min operation chg

Service 4538 Acoustic Cement Bond Log
 Depth 3496'
 Oper. min operation chg

Service 4650 Perforate w/ 3/8" HPSlick
 Depth 3432'
 Oper. min shot charge

4645 Gun Barrel 4'

Service
 Depth
 Oper.

Service To: (caption) Cost To
 Depth Altamont Field 34-1
 Oper. (Ray Cement Bond Log - 10' work)

Service
 Depth
 Oper.

EQUIPMENT, RENTALS, PERSONNEL

4592 Pressure Control / Rock Off
 subtotal
 discount
 subtotal

MATERIALS

4518 EHS Charge
 4504 Mileage 80 miles
 field total

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Fluid Water Level (surf) 1270'
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 CWS TD 3496 Driller TD 3540
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

PERFORATIONS

Intervals	SPF	Total #
3428-3432 (4)	4	17

TOTAL PERFORATIONS: 17 Titan 19 gram Prospects

AFE #: AFE#25-073-21830

Remarks:

Witnessed by: Patrick Montalban
 Competition WS Starbuck Seifert
 (Please Print)

Date 2-JUNE-2011 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 20367 LEASE/LOCATION JODY FIELD #34-1

STATE MONTANA COUNTY PONDERA LEGAL SE-SE-SW 4-28N-6W

ELEVATION 4071' KB ELEVATION 4076' DRILLER TD 3540' FIELD WILDCAT

COMPETITION PERSONNEL J Brown / S Seifert / M Fugle UNIT # 27 / CUT BANK, MT

COMPANY MOUNTAIN VIEW ENERGY, INC. BY [Signature]

ADDRESS _____

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
<u>4501</u>	SERVICE CHARGE: <u>TRUCK</u>	Casing	Lb/Ft	From	To
	SERVICE CHARGE:	<u>7.00"</u>	<u>17.0#</u>	<u>SURFACE</u>	<u>675'</u>
	Mileage Logging unit <u>90</u> @ <u>4.00</u> per mile	<u>4.50"</u>	<u>9.5#</u>	<u>SURFACE</u>	<u>3540'</u>
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4650 PERFORATE w/ 3 1/8 HP Suck Gun
 Depth 3493' th chg
 Oper. 166 SHOTS

Service 4645 Gum Barrel chg 45'
 Service 4592 PRESSURE CONTROL:
 Depth PACK OFF HEAD / FLOW TEE
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Fluid oil/water Level (surf) 1100'
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs X
 CWS TD 3494' Driller TD 3540'
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

PERFORATIONS			
Intervals	SPF	Total #	
<u>3448-3452 (4')</u>	<u>4</u>	<u>16</u>	
<u>3490-3493 (3')</u>	<u>4</u>	<u>13</u>	
<u>3480-3490 (10')</u>	<u>4</u>	<u>40</u>	
<u>3470-3480 (10')</u>	<u>4</u>	<u>40</u>	
<u>3452-3466 (14')</u>	<u>4</u>	<u>57</u>	

TOTAL PERFORATIONS: 166 TITAN 196m
"PROSPECTOR"
 AFE #: _____
API # 25-073-21830
 Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

SUBTOTAL _____
 DISCOUNT < _____
 SUBTOTAL: _____

MATERIALS

4518 Enviro, HEALTH SAFETY chg
FIELD TOTAL:

[Signature]
 Int. Competition Costs
 for Now - Jody Fields 34-1

Sub total _____
 Other _____
 TOTAL CHARGES _____
 Sales Tax _____
 TOTAL CHARGES _____

Witnessed by: JOSEPH MONTALBAN
 Competition WS [Signature]
 KH _____ (Signature)
 6-6-11

RECEIVED
 JUN - 8 2011
 MONTANA BOARD OF OIL
 & GAS CONS. BILLINGS

CE
 6-6-11
 PC

RECEIVED

AUG 17 2011

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Unit Agreement Name:	
		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Well Type (oil, gas, injection, other): INJECTION	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input checked="" type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>


Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Moved in and rigged up General Well Service Rig #12. Rigged up Competition Wireline Services and perforated 3448' - 3452'. Rigged down Competition Wireline Services and swab tested well. Rigged up Competition Wireline Services and perforated from 3490' - 3493', 3480' - 3490', 3470' - 3480', 3452' - 3466'. Rigged down Competition Wireline Services and moved off well on June 2, 2011.

BOARD USE ONLY	
Approved	AUG 18 2011 Date
Original Signed By George Hudak, UIC Director	
Name	Title

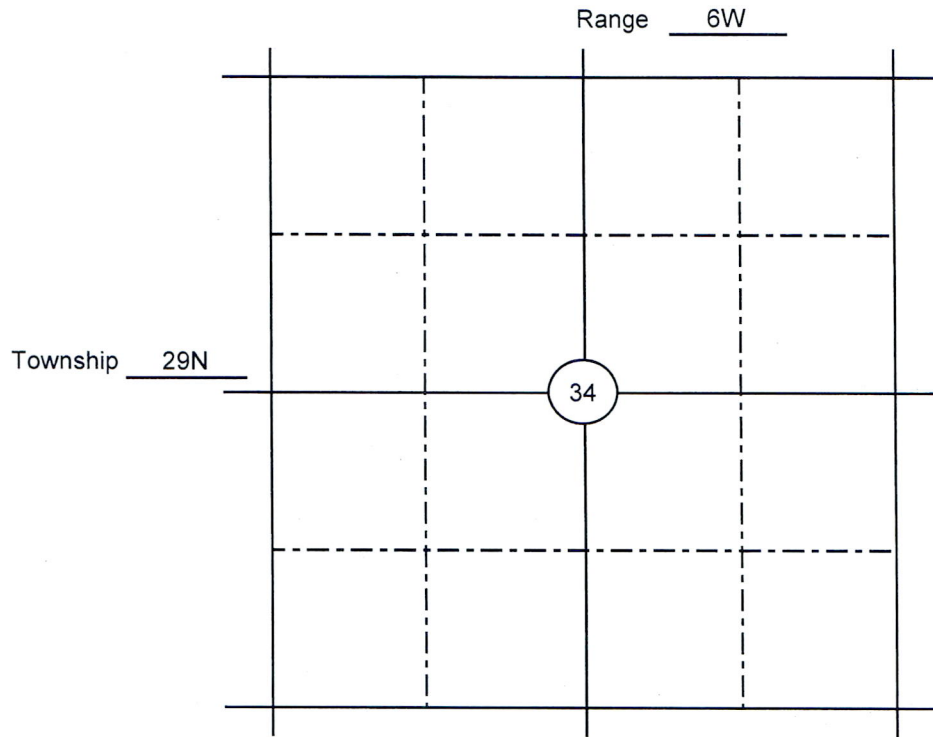
The undersigned hereby certifies that the information contained on this application is true and correct:

08/03/2011	
Date	Signed (Agent)
Joseph P. Montalban, Chief Operating Officer	
Print Name and Title	
Telephone: _____	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

RECEIVED

AUG 17 2011

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Well Type (oil, gas, injection, other): INJECTION	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input checked="" type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

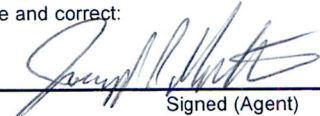
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Move in and rig up General Well Service Rig #12. Rig up Competition Wireline Services and perforate 3448' - 3452'. Rig down Competition Wireline Services. Swab test well. Rig up Competition Wireline Services and perforate from 3490' - 3493', 3480' - 3490', 3470' - 3480', 3452' - 3466'. Rig down Competition Wireline Services and move off well.

BOARD USE ONLY	
Approved AUG 17 2011	Date
Original Signed By George Hudak, UIC Director	
_____ Name	_____ Title

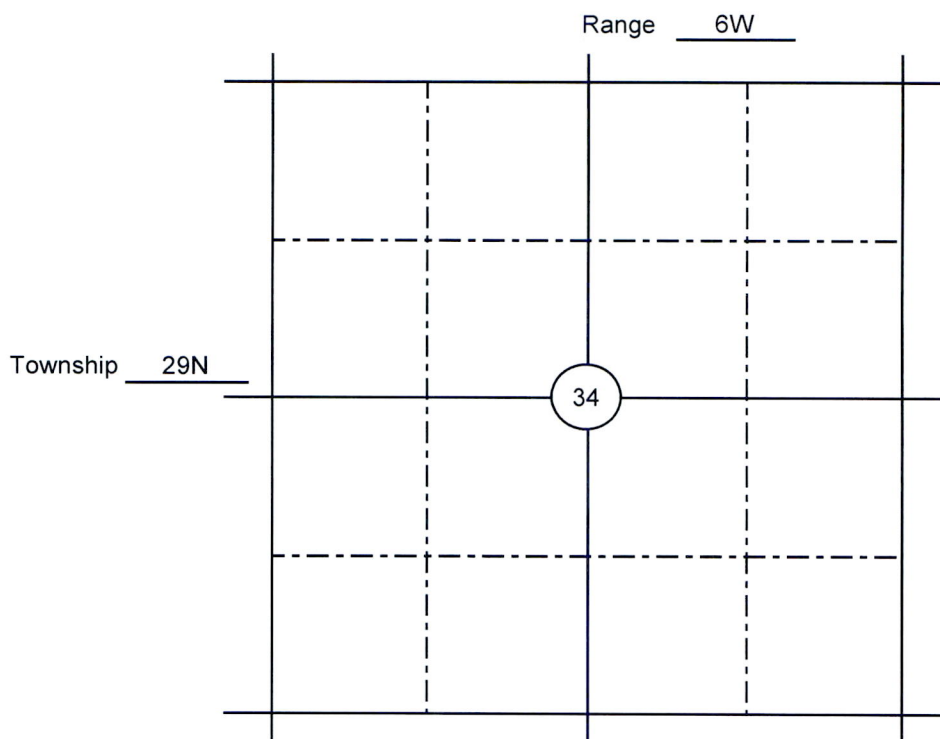
The undersigned hereby certifies that the information contained on this application is true and correct:

08/03/2011	
Date	Signed (Agent)
Joseph P. Montalban, Chief Operating Officer	
Print Name and Title	
Telephone: _____	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

RECEIVED

AUG 17 2011

SUNDRY NOTICES AND REPORT OF WELLS **MONTANA BOARD OF OIL & GAS CONSERVATION BILLINGS**

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Township, Range, and Section: SECTION 34-T29N-R6W	
Well Type (oil, gas, injection, other): OIL		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

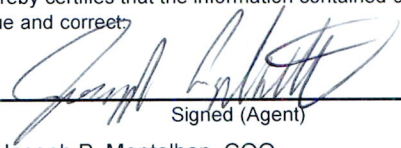
Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input checked="" type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.
Move in and rig up Liquid Gold Well Service. Pump 1500 gallons 28% HCl down tubing. Displace acid with 16 bbls of water. Rig down and move off well.

BOARD USE ONLY	
Approved <u>AUG 17 2011</u>	Date
Original Signed By George Hudak, UIC Director	
_____	Title

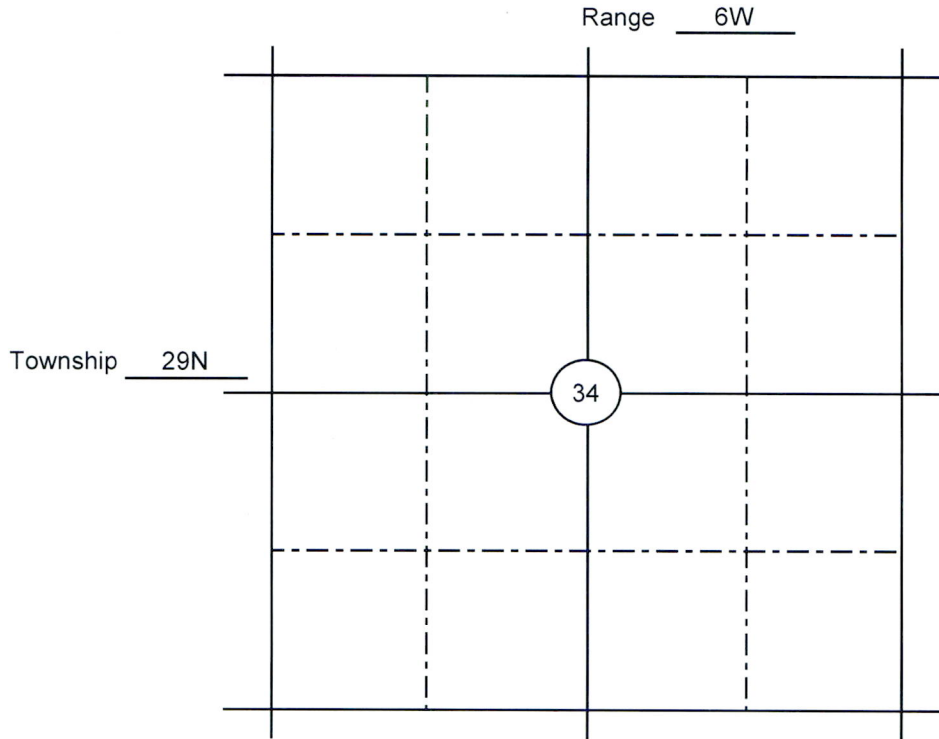
The undersigned hereby certifies that the information contained on this application is true and correct:

8/15/2011	
Date	Signed (Agent)
Joseph P. Montalban, COO	
Print Name and Title	
Telephone: _____	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

RECEIVED

SEP 06 2011

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE
City CUT BANK	State MT	Zip Code 59427
Telephone 406-873-2235	Fax 406-873-2835	
Location of well (1/4-1/4 section and footage measurements): NENW SW-SECTION 34-T29N-R6W (2310' FSL - 990' FWL) <i>NWSW</i>		Well Number: 34-2
API Number: 25 073 21838 State County Well		Unit Agreement Name:
Well Type (oil, gas, injection, other): INJECTION		Field Name or Wildcat: LONEMAN COULEE
		Township, Range, and Section: SECTION 34-T29N-R6W
		County: PONDERA

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>	CONVERT TO INJECTION WELL	<input checked="" type="checkbox"/>

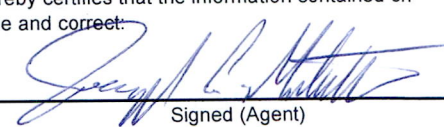
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Well hooked up and commenced injection operations on January 21, 2011.

BOARD USE ONLY	
Approved	<u>SEP 06 2011</u> Date
Original Signed By George Hudak, UIC Director	
_____ Name	_____ Title

The undersigned hereby certifies that the information contained on this application is true and correct:

9/1/2011 
Date Signed (Agent)

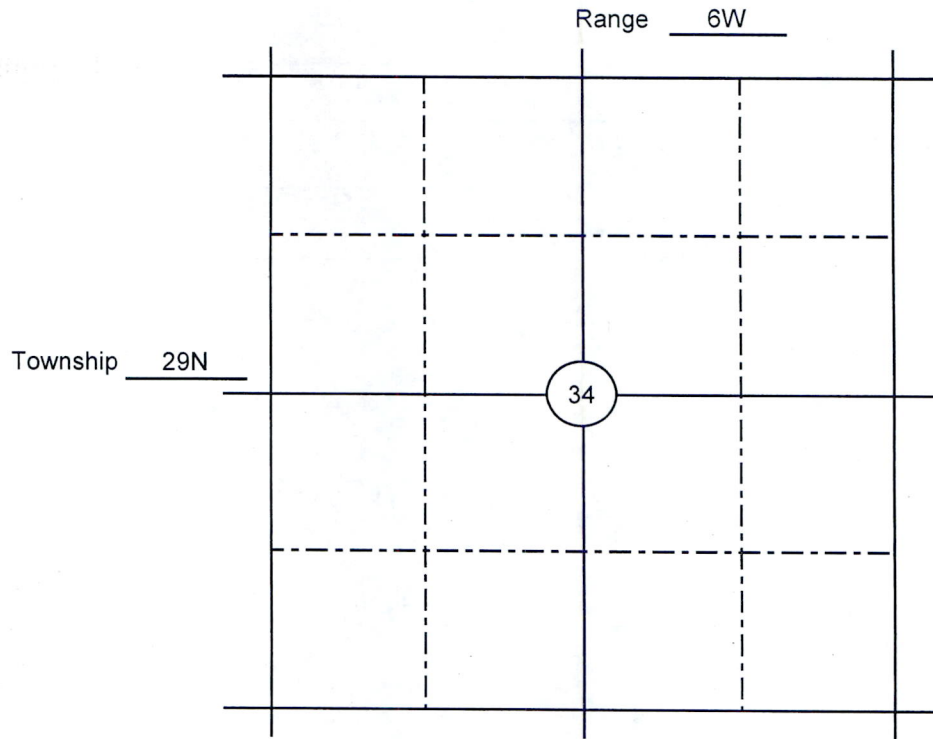
Joseph P. Montalban, V.P. of Operations
Print Name and Title

Telephone: _____ (406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment C Well Construction Conversion Information

Privileged and Confidential

CONTENTS

1. Part I. Well Schematic Diagram (40 CFR § 144.52)	2
2. Part II. Well Construction or Conversion Procedures (40 CFR § 144.52)	3

FIGURES

- Figure 01. Well Jody Field 34-1 Well Schematic
- Figure 02. Well Jody Field 34-2 Well Schematic

EXHIBITS

- A. Well Records for Jody Field 34-1 and Jody Field 34-2
- B. Well Records for Jody Field 14-34 and Jody Field 4-1A
- C. WatchDog® Monitoring System Specifications

Privileged and Confidential

1. PART I. WELL SCHEMATIC DIAGRAM (40 CFR § 144.52)

Montalban Oil & Gas Operations, Inc (Montalban) intends to convert two (2) existing Class II UIC wells and two (2) shut-in oil and gas wells to Class V UIC wells for injection of industrial wastewater to be received from Montana Renewables, a renewable fuels refinery located in Great Falls, Montana. This application involves a phased approach with initial conversion of the 2 class II wells and subsequent conversion of the 2 oil and gas wells at a later date to accommodate future wastewater volumes from the refinery.

The Class II UIC wells to be converted at this time are identified as follows:

Well Jody Field 34-1
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21830

Jody Field No. 34-2
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21838

The current well schematics for Wells Jody Field 34-1 and 34-2 are provided in **Figures 01 and 02** respectively and include identification of confining layers and underground sources of drinking water (USDWs), casing and cementing details, and injection intervals. The injection wells are completed in the Madison Sun River Dolomite, and no additional well design changes are proposed.

The shut-in oil and gas wells to be converted at a future date are detailed below.

Well Jody Field 4-1A
Section 4- Township 28 North, Range 6 West
Pondera County, Montana
API No. 25-073-21842
Well Depth: 3,442

Well Jody Field No. 14-34
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21740
Well Depth: 3,415'

Current well records for Wells Jody Field 4-1A and Jody Field No. 14-34 are included in Exhibit B.

Privileged and Confidential

2. PART II. WELL CONSTRUCTION OR CONVERSION PROCEDURES (40 CFR § 144.52)

Well construction details for the existing Class II UIC Wells Jody Field 34-1 and 34-2 are provided below and included in the well completion reports provided in Exhibit A:

Well Jody Field 34-1

Depth to Top of Injection Formation: 3,428'

Injection Formation: Madison/Sun River Dolomite

Injection Interval: 110'

Jody Field No. 34-2

Depth to Top of Injection Formation: 3,438'

Injection Formation: Madison/Sun River Dolomite

Injection Interval: 81'

The Montana Board of Oil and Gas Conservation (BOGC) recently authorized workovers of the two Class II UIC wells, which included deepening the injection intervals and performing well stimulation (acidizing). Mechanical integrity tests conducted following workover operations indicated no loss of mechanical integrity. Well records including previously run logs and tests and a cement bond log for Well 34-1 is included in Exhibit A. The cement bond log indicates a good bond in Well 34-1 from a depth of 2,750 feet (beginning 500 feet above the confining Ellis Formation) to the top of the injection interval.

Prior to commencing operations, the wells will be equipped with the WatchDog® virtual well-site monitoring system, which will continuously track well parameters and immediately alert Montalban in the event of loss of pressure or well failure. Injection volumes and flow rates, pressure on the tubing, and pressure on the backside of the packer and tubing casing annulus will be monitored and real-time data will be remotely available 24/7. The pressure gauges are capable of monitoring pressures ranging from normal operating pressures up to the MAIP. Specifications for the WatchDog® system are included in Exhibit C. The tubing casing annulus will be filled with water treated with a corrosion inhibitor, and the valve will remain closed during normal operating conditions so that the pressure will be maintained at zero (0) psi.

A pressure actuated shut-off device (Murphy switch) will be located in the injection building and is set to shut-off flow from the injection pump when pressures reach within 200 to 300 psi of the Maximum Allowable Injection Pressure (MAIP) established for the wells. A "tap" will be placed at a conveniently accessible location on the discharge line of the pump that leads to the injection wells for collection of representative samples of the injected fluid. Further details regarding the injection site layout and location of monitoring devices is provided in Attachment D, Injection Operation and Monitoring Program.

Privileged and Confidential

FIGURES

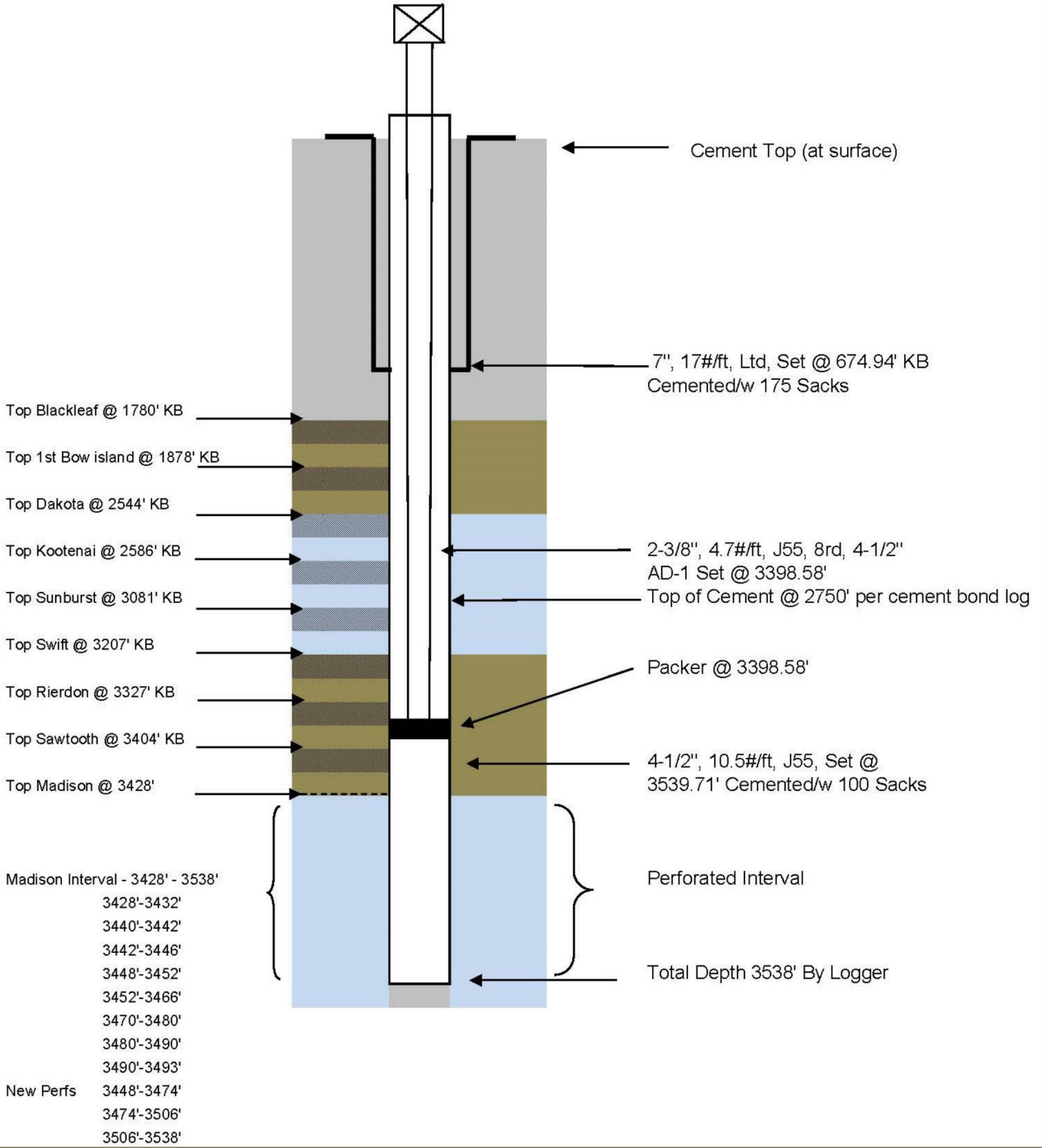
Figure 01. Well Jody Field 34-1 Well Schematic

Figure 02. Well Jody Field 34-2 Well Schematic

Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W
	(330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

**SCHEMATIC
After Workover**



USDW

Confining Zone

**WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1**

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment C
Figure 01**

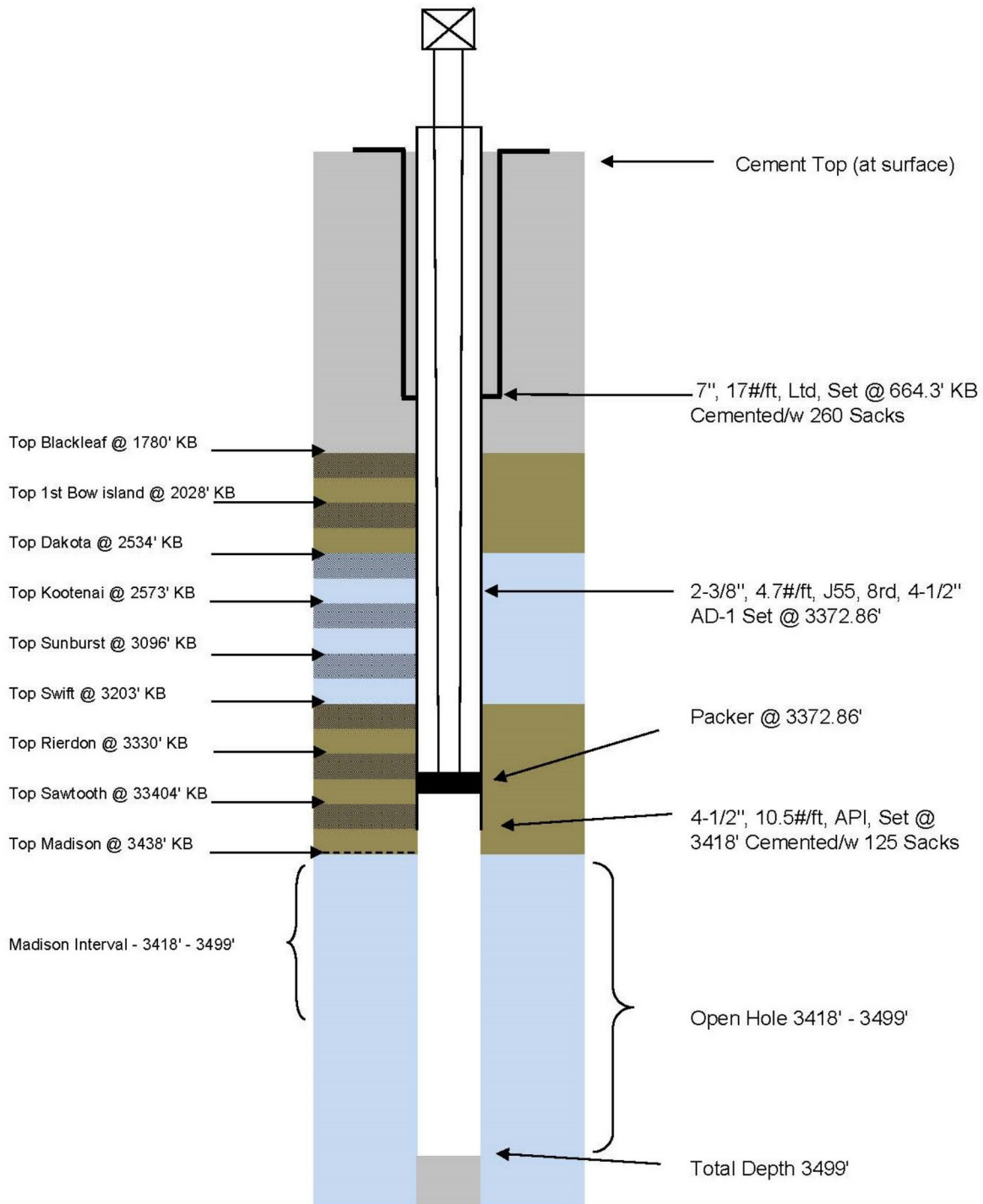
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment C
Figure 02

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



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EXHIBIT A

Well Records for Jody Field 34-1 and Jody Field 34-2

**Engineering Completion
Report**

**Montalban Oil & Gas Operations Inc
MOGO/Jody Field 34-1
NWNW – Section 34-T29N-R6W
(2310' FSL – 990' FWL)
Pondera County, Montana
API #25-073-21838**

**Altamont Oil & Gas Inc
Patrick M. Montalban
Petroleum Consultant
PO Box 488
Cut Bank, MT 59427**

Resume

Spud Date: August 28, 2008

Completion Date: May 6, 2008

Status: Madison Sun River Dolomite Injection Well

Elevation: 4071' GR 4076' KB

Total Depth: 3540' Driller 3539' Logger
4 1/2" set @ 3540' Float Collar 3495'

Hole Size: 8 3/4" (0 - 679') 6 1/4" (679' - 3540')

Casing Size: 7", 17#/ft, Ltd, ST&C, set @ 674.94' KB
w/175 sacks Class G Cement
4 1/2", 105#/ft, SPI, J55, ST&C, Rge 3 set
@ 3539.71 KB w/100 sacks Class G
Cement. Float collar @ 3495.42 KB

Perforations: 3428' - 3432' = 4 SPF = 3 1/8" HSC
3442' - 3446' = 4 SPF = 3 1/8" HSC
3440' - 3442' = 4 SPF = 3 1/8" HSC
3448' - 3452' = 4 SPF = 3 1/8" HSC
3452' - 3466' = 4 SPF = 3 1/8" HSC
3470' - 3480' = 4 SPF = 3 1/8" HSC
3480' - 3490' = 4 SPF = 3 1/8" HSC
3490' - 3493" = 4 SPF = 3 1/8" HSC
New Perforations 3448' - 3474' = 4 SPF = 3 1/8" Exp.
3474' - 3506' = 4 SPF = 3 1/8" Exp.
3506' - 3538' = 4 SPF = 3 1/8" Exp.

Bridge Plug: None

Tubing: 105 joints 2 3/8", 4.7 #/ft, J55. 8rd,
ST&C set @ 3398.58' with 4 1/2' x 2
38" ADI

Seating Nipple: None

Rods: None

Pump: None

Pumping Unit: None

Daily Activity Summary

Wednesday
September 2, 2022

70°F – 95°F Clear Sky. 30 mph from the west.

Began operations @ 9:00 am.

Moved in and rigged up Liquid Gold Well Service Rig No. 6. Haul in and set circulating tank and power swivel.

Rigged up 2:30 pm. Unseat 4 ½” x 2 3/8” AD-1 packer unseated @ 3:00 pm. Pack off tubing. Start and go through circulating pump. Shut down operations due to high winds 30-40 mph. Shut down operations @ 3:30 pm.

Total Rog Hours: 6 ½ hrs x \$260.00=		\$1,690.00
Travel Time: (2 Trucks) (per man) =		\$180.00
Tracking Costs:		
Pickup Costs: 2 trucks x \$60.00 =		\$120.00
Fuel Surcharge: 10% =		\$169.00
Environmental Safety =		\$50.00
Tool Pusher		\$350.00
Extra Labor: 1 man x \$45.00/hr =		<u>\$292.50</u>
		\$2,851.50
Winch Truck: 3 hrs x \$165.00 =		\$495.00
2 hrs Tanker: 2 x \$165.00 =		\$330.00
1 Pickup: (\$60 per unit) =		\$60.00
Fuel Surcharge: 10% =		\$82.50
Pump Truck Mileage: 40 miles x \$4.00		\$160.00
1 Travel per Man: 2 x \$45.00 =		<u>\$90.00</u>
		\$1,217.50
1 day Consulting = 1500/2 =		\$750.00
Mileage: 60 miles x 1.00 =		<u>\$60.00</u>
		\$810.00
Total Daily Costs =		\$4,879.00

Thursday
September 8, 2022

56°F – Cloudy Sky – 10-15 mph wind from North
Began operations @ 8:00 am. Well
flowed and equalized on the backside. Pulled and
strapped 2 3/8", 4.7#/ft tubing out of the hole. Pulled 105
joints 2 3/8", 4.7#/ft with 4 1/2" x 2 3/8" AD-1 Packer.
Tubing tally as follows

1 – 4 1/2" x 2 3/8" AD-1 Packer	=	2.50'
1 – 2 3/8" seating Nipple	=	1.10'
105 joints 2 3/8", 4.7#/ft, J55, 8rd	=	3391.98'
Total	=	3395.58'
KB	=	<u>3.0</u>
Total String	=	3398.58' KB

Stop and pick up 2 joints of 2 3/8" tubing. Tagged as
follows and slowly circulated to T.D.

		3398.58' KB
2 joints of 2 3/8" tubing	=	<u>62.90'</u>
		3461.48' KB

Stop and pick up 1 joint of 2 3/8" tubing

1 joint of 2 3/8" tubing	=	<u>31.45'</u>
Total 108 joints		
Total Tubing	=	3492.93' KB

48°F – Raining and very cloudy @ 2:00 pm.
Tagged @ 3461' KB and circulated to total depth 3493'
KB and recovered thick black oily sulphur water with
many solids. Circulated the last 15' to total depth 3493'
KB. Well went on a vacuum and we lost 15 bbls in 1
hour from the circulating tank. Successful clean out
of the well. Shut down operations @ 6:00 pm.

Total Rig Hours: 10 hrs x \$260.00	=	\$2,600.00
Travel Time: 4 men x 2 hrs x \$45.00	=	\$360.00
Trucking Costs		
Pickup Costs: 2 trucks x \$60.00	=	\$1,200.00
Circulating Tank: (Pump Tank)	=	\$550.00 /day
Power Swivel: 1 x \$250.00	=	\$250.00
Fuel Surcharge: 10%	=	\$315.00
Environmental & Safety	=	\$50.00
Tool Pusher		\$350.00
Swivel Delivery: 40 miles x \$4.00	=	\$160.00
3 7/8" Bit	=	\$600.00

Bit Sub	=	\$50.00
Extra Labor: \$45.00/hour x 10 hrs	=	\$450.00
Circulating Rubber	=	\$300.00
Pipe Dope	=	<u>\$25.00</u>
		\$6,180.00
Vacuum Truck: 2 ½ hrs x \$145.00	=	\$362.50
1 Pickup	=	\$60.00
1 hr Travel per Man	=	\$90.00
Fuel Surcharge	=	<u>\$36.25</u>
Total		\$548.75
1 day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	\$60.00
		<u>\$810.00</u>
Total		\$7,538.75

Friday
September 9, 2022

43°F – Raining and cold – NW wind from NW
Began operations @ 8:00 am. Ran 4 ½” x 2 3/8” AD-1 packer with 105 joints of 2 3/8”, 4.7#/ft tubing. Tubing string as follows:

1 – 4 ½” x 2 3/8” AD-1 Packer	=	2.50’
1 – 2 3/8” Seating Nipple	=	1.10’
105 joints 2 3/8”, 4.7#/ft, J55 8rd ST&C Tubing	=	3391.98’
Total String	=	3395.58’
KB	=	<u>3.00’</u>
Total String KB	=	3398.58’ KB

Moved in and rigged up Liquid Gold Pump and Transport Truck. Pressure up backside to 500#/s. Acidized well with 1000 gallons of 28% Hcl (23.8 bbls) Acid job as follows:

Pumped acid @ 1000#/s to load perforations
Pumped 23.8 bbls Hcl acid @ 1000 bbls @ 1 bbl/minute
Pumped displacement @
 Pumping – 2.0 bbls/minute @ 1200#/s
 Pumping – 3.0 bbls/minute @ 1750#/s
 Pumping – 3.0 bbls/minute @ 1100#/s
 Over displaced by 30.0 bbls
Instant shut in Pressure = 1000#/s
5 minute shut in Pressure = 100#/s
7 minute shut in Pressure = 0#/s

Well on a vacuum. Unseat 4 1/2" x 2 3/8" AD-1 Packer and pulled 105 joints of tubing. Pick up 3 7/8" bit and sub and ran tubing string as follows:

1 – 3 7/8" bit and bit sub	=	1.25
108 joints 2 3/8 " , 4.7#/ft		
J55, 8rd, ST&C	=	3492.93'
Total String	=	3494.18'
Pick up 1 joint 2 3/8" tubing	=	31.45
Total string = 109 joints		
		3525.63 Gr
Add KB	=	<u>3.0'</u>
		3528.63 KB

Tagged float collar @ 3492.93 KB. Picked up power swivel and began to drill float collar @ 3:00 pm. Drilled from 3 7/8" from 3:00 pm to 5:30 pm. Shut down operations @ 5:30 pm

Total Rig Hours: 9 hrs x \$260.00	=	\$2,470.00
Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00 per man	=	\$270.00
Fuel Surcharge: 10%	=	\$357.00
Environmental & Safety	=	\$50.00
Supervisor: \$350.00 per day	=	\$350.00
Pump Tank: \$550.00 per day	=	\$550.00
Power Swivel: \$550.00 per day	=	\$550.00
4 1/2" AD-1 Packer: Rental 1 day x \$250	=	\$250.00
Crossover Sub	=	<u>\$50.00</u>
Total Rig Costs	=	\$5,017.00

Acid Job = 1000 gallons 28% Hcl

Acid Pump Truck	=	\$1,600.00
Pump Truck Mileage	=	-----
Bulk Acid Truck: \$750 per day	=	\$750.00
Mileage Bulk truck: \$4.00/mile x 40 miles	=	\$160.00
1000 gallons 28% Hcl	=	\$3,250.00
Additives	=	\$489.50
1 Pickup: \$60.00 per day	=	\$60.00
Fuel Surcharge: 10%	=	\$249.50
Environmental & Safety	=	<u>\$75.00</u>
Total Costs	=	\$6,779.00

Total Rig Costs = \$11,796.00

Consulting: \$1500per day/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total		\$12,606.00

Monday
September 12, 2022

59°F – Very Smokey – North/North West wind 15 mph. Began operations @ 8:00 am. Rigged up power swivel and drilling equipment. Drilled from 9:00 am – 10:30 am. Drilled out 4 1/2" float collar @ 10:30 am. Drilled 3 7/8" hole from 3495' to 3528.63'. Picked up 110th joint and drilled from 3528.63' to 3538.63' from 10:30 am to 12:00 pm. Drilled 3 7/8" hole from 3583.63' to 3543'. Tag guide shoe. Began to torque up 3 7/8" bit. Total depth @ 3543' KB by rig operators. Circulate and clean hole. Total pipe tally below:

1 – 3 7/8" bit and bit sub	=	1.25'
Ran 109 2 3/8", 4.7#/ft, J55, 8rd ST&C Rge 3	=	3524.38'
Total String	=	3525.63'
Add KB = 3'	=	<u>3.00'</u> 3528.63'
Picked up 110 joints = 31.45'		
Drilled 14' of the 110 joints	=	<u>14.0'</u>
Total String		3542.63'

Total depth 3543.0' KB by rig operator. Circulated hole clean for 1 hr. Hole clean. Tripped 110 joints out of the hole. Pick up 3 7/8" bit and casing scraper.

69° - Very smokey – North/Northwest wind @ 15 mph Trip 110 joints 2 3/8", 4.7#/ft tubing into hole and tag total depth 3543' KB by operator. Circulated hole and reciprocate a number of times from 3420' – 3543' KB. Circulated tubing and rotate tubing and well cleaned out to total depth with no fill. Lift tubing above 3420'. Shut down operations @ 5:00pm.

Total Rig hours: 9hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45/hr/man	=	\$360.00
Fuel Charge: 10%	=	\$344.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$550.00
Power Swivel	=	\$550.00
4 1/2" Scraper	=	\$150.00
3 7/8" Bit for Scraper	=	\$200.00
Extra Labor: (1 guy) \$45/hr	=	\$405.00
Bit Sub	=	\$50.00

Pipe Dope	=	<u>\$25.00</u>
Total Daily Costs	=	\$5,494.00
1 Day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total Daily Costs	=	\$6,304.00

Tuesday
September 13, 2022

59°F – Very Smokey – Very little wind
 Began operations @ 11:00 am. Tripped to total depth 2543' KB and tagged no fill. Rolled hole and circulated well clean. Trip out of hole for perforating company. Rigged up Nine Energy Service @ 2:00 pm. Ran 3.75" gauge ring to total depth 3538' KB. Perforated 3506' – 3538' = 4 SPF, 3 1/8" expendable gun. 32' = 120 shots, successful shooting. Perforated 3474' – 3506' = 4 SPF, 3 1/8" expendable gun. 32' = 120 shots, successful shooting. Perforated 3448' – 3474' = 4 SPF, 3 1/8" expendable gun. 26' = 96 shots, successful shooting. Shot 90' of the Sun River Dolomite Formation. Rigged down Nine Energy Service. Tripped in _____ joints of 2 3/8" tubing with a 4 1/2" x 2 3/8" SD-1 Packer with 3 joints of tail pipe. Tubing tally as follows:

1 – 4 1/2" x 2 3/8" AS-1 Packer	=	2.50'
1 – 2 3/8" seating nipple	=	1.10'
105 joints 2 3/8", 4.7#/ft, J55, 8rd ST&C Rge 3	=	3391.98'
Total	=	3395.58'
KB = 3'	=	<u>3.0'</u>
		3398.58'
3 joints of tubing = total 108 joints =		<u>94.35'</u>
3 joints of tubing below packer		
Set @ _____		3492.93'

Packer set @ 3398.58' KB

Set 4 1/2" x 2 3/8" AS-1 Packer @ 3399' KB. Shut down operations @ 6:30 pm

Total Rig Hours: 7 1/2 x \$260.00	=	\$1,950.00
Daily Pickup: 2 hrs x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$250.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$550.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$3,515.00

3 hours water tanker: 3 x \$165.00	=	\$495.00
2 hours pickup: 2 x \$45.00	=	\$90.00
1 pickup:	=	\$60.00
Fuel Surcharge: 10%	=	\$49.50
Environmental: \$50.00/day	=	<u>\$50.00</u>
		\$744.50

Nine-CDK Perforating LLC
Perforated Madison Sun River Dolomite \$28,770.00

1 day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00/mile	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs = \$33,839.50

Perforating Summary

**MOGO/Jody Fields 34-1
SESESW Section 34-T28N-R6W
Pondera County Montana**

No. 1 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3506’ – 3538’
3 1/8” Expendable Gun = 33.2” Penetration .55 Diameter
4 SPF = 120 Shots
Collar Locator = 3503’7”
Shot @ 3:21 pm
Successful Shooting**

No. 2 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3474’ – 3506’
3 1/8” Expendable Gun = 33.2 Penetration .55 Diameter on shot hole
4 SPF = 120 Shots
Collar Locator 3503’7”
Shot @ 3:57 pm
Successful Shooting**

No. 3 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3448’ – 3474’
3 1/8” Expendable Gun = 33.2 Penetration .55 Diameter on shop hole
4 SPF = 96 shots
Collar Locator = 3445’7”
Shot @ 4:29 pm
Successful Shooting**

Wednesday
September, 13, 2022

55°F – Very Smokey – Wind from NW @ 9 mph
Began operations @ 8:00 am. Moved in and
rigged up Liquid Gold Well Service Pump Truck
and Acid Transport. Pressured backside to
600#/s. Held OK. Began acid job @ 10:00 am.
Acidized well with 1000 gallons of 28% Hcl Acid
as follows:

Total Acid = 23.8 bbls Total displacement = 15.5
bbls. Load acid in tubing. Acid on perforation
with 13.5 bbls pumping @ 400#/s. Acid job as
follows:

Pumped 2.0 bbls/min @ 900#/s
Pumped 2.0 bbls.min @ 1000#/s
Pumped 23.8 bbls of acid and start displacement
Pumped 2.0 bbls/min @ 900#/s pumped 13.5 bbls
of displacement

Pumping 3.0 bbls/min @ 1400#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1500#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1000#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1000#/s 5 bbls over
displacement

Pumped 35.0 bbls over displacement

ISI = 600#/s
1 minute shut in = 100#/s
2 minute shut in = vacuum

Job ended. Moved out Liquid Gold Equipment
Unseat 4 1/2" x 2 3/8" AD-1 Packer

1:00 pm – 59°F – Very Smokey
Tripped out 105 joints of 2 3/8" tubing. Remove
packer. Pickup rebuilt 4 1/2" x 2 3/8" AD-1
packer. Ran tubing as follows:

1 – 4 1/2" x 2 3/8" AD-1 Packer = 2.50'
1 – 2 3/8" Seating Nipple = 1.10'

105 joints 2 3/8", 4.7#/ft, J55, 8rd
ST&C tubing = 3391.58'

Total String = 3395.58'
KB = 3.0'

Tubing set @ 3398.58' KB

Rolled to casing with 50 bbls of corrosion inhabited water. Fluid clean. Landed 4 1/2" x 2 3/8" AD-1 Packer with 13,000#/s over string weight. Held OK. Ran MIT test on well as follows:

<u>Time</u>	<u>Pressure</u>	<u>Result</u>
2:24 pm	450#/s	Held OK
2:29 pm	450#/s	Held OK
2:34 pm	450#/s	Held OK

Passed MIT test. Rigged down and moved Fields #34-2. Shut down operations @ 3:00pm

Total Rig Hours: 7 hrs x \$260.00	=	\$1,820.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 1 hr x \$45.00/man	=	\$135.00
Fuel Surcharge: 10%	=	\$237.00
Environmental & Safety	=	\$50.00
Supervisor	=	\$350.00
Pump & Tank	=	\$550.00
4 1/2" Redress Packer	=	\$500.00
2" fill port part 3000#/s valve		
For acid job & pressure handline	=	\$540.00
4 1/2" x 2 3/8" AD-1 for acid job	=	\$250.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$4,442.00

Acid job 1000 gallons 28% Hcl

Acid Pump Truck	=	\$1,600.00
Bulk Acid Truck	=	\$750.00
Bulk Mileage	=	\$160.00
Bulk Acid 1000 gallons @		
3.25 x 1000	=	\$3,250.00
Additives	=	\$704.50
Environmental: \$75.00/day	=	\$75.00
1 Pickup	=	\$60.00
Fuel Surcharge: 10%	=	<u>\$301.00</u>
Total Costs	=	\$7,560.00

1 Day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs = \$12,812.00

Total Workover = \$77,979.25

**Engineering Completion
Report**

**Montalban Oil & Gas Operations Inc
MOGO/Jody Field 34-2
NENWSW – Section 34-T29N-R6W
(2310' FSL – 990' FWL)
Pondera County, Montana
API #25-073-21838**

Lone Man Coulee Field

**Altamont Oil & Gas Inc
Patrick M. Montalban
Petroleum Consultant
PO Box 488
Cut Bank, MT 59427**

Resume

Spud Date: August 7, 2008

Completion Date: August 18, 2008

Status: Madison Sun River Dolomite Injection Well

Elevation: 4033' GR 4038' KB

Total Depth: 3415' Driller 3451' Logger

Hole Size: 8 3/4" (0 – 668')
6 1/4" (668' – 3415')
3 7/8" (3415' – 3451')
New Open Hole

Casing Size: 7", 17#/ft, Ltd, ST&C, set @ 664.30' KB cemented w/260sacks Class G Cement
4 1/2", 10.5#/ft, API, J55, ST&C, Rge 3 set @ 3418' KB w/125 sacks Class G Cement.

Perforations: None

Bridge Plug: None

Open Hole: 3418' – 3499' KB

Tubing: 107 joints 2 3/8", 4.7 #/ft, API, J55, Rge set @ 3366.36

Seating Nipple: 3365.16 KB

Rods: None

Pump: None

Pumping Unit: None

Status: Injection Well

Daily Activity Summary

Wednesday
September 14, 2022

70°F – Partly Cloudy – Smokey – NW wind @ 10 mph.
Began operations @ 3:00 pm. Moved in and rigged up
Liquid Gold Well Service Rig No. 6. Unseat 4 1/2" x 2 3/8"
AD-1 packer. Trip 107 joints of 2 3/8", 4.7#/ft, J55, API
out of hole. Strapped out of the hole. 4 1/2" x 2 3/8" AD-1
packer looked good. Shut down operations @ 7:00 pm

Total Rig Hours: 4hrs x \$260.00 = \$1,040.00
Pickup Travel: 1 hr x 1 hr x \$45.00/man \$135.00

Environmental = \$50.00
Fuel Surcharge: 10% = \$104.00

Total Costs = \$1,279.00

Thursday
September 15, 2022

60°F – Smokey – Partly Cloudy – Very little wind
Began operations @ 8:00 am. Moved in circulating tank
and power swivel. Haul H2O into location to fill tanks
and clean well out to total depth: 3451'. Ran 109 – 2 3/8",
4.7#/ft, J55, 8rd with 3 7/8" bit to clean out well to total
depth 3451'. Tubing as follows:

1 – 3 7/8" bit = 2.50'
1 – 2 3/8" seating nipple = 1.10'
109 – 2 3/8", 4.7#/ft, J55 8rd
ST&C = 3417.30'

Total String = 3420.90'
KB = 3.0 = 3.0'
3423.90'

Out 

1 – 3 7/8" bit = 2.50'
1 – 3 7/8" x 2 3/8" change over = 1.10'

109 – 2 3/8", 4.7#/ft, J55, 8rd
ST&C = 3417.30'

In 

Total String = 3420.90'
KB = 3.00'
3423.90' KB

Finish hauling equipment and H2O into circulating tanks.
Need to clean out 27' out of open hole.

Thursday
September 15, 2022

64°F – Smokey – Slight rain @ 3:00 pm.
Tagged tubing @ 3424' KB. Cleaned out 3 7/8" hole from
3424' to 3451'. Hard drilling. Could be drilling on float
collar from 4 1/2" casing. Total depth by operator 3451'
KB. Shut down operations @ 6:00 pm.

Total Rig Hours: 10 hrs x \$260.00	=	\$2,600.00
Daily Pickup: 2 trucks x \$60.00	=	\$170.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$370.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$550.00
Power Swivel	=	\$550.00
Bit Sub	=	\$50.00
3 7/8" Bit	=	\$200.00
Trailer Rental	=	\$100.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$5,235.00

Other Costs

Winch Truck: \$165.00/hr 5 x \$165.00	=	\$825.00
Tanker: 2 hrs x \$165.00/hr	=	\$330.00
Vacuum Truck: \$145.00/hr x 2 hrs	=	\$290.00
Environment Safety	=	\$75.00
Fuel Surcharge	=	<u>\$144.00</u>
		\$1,664.50

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs	=	\$7,709.50
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Friday
September 16, 2022

55°F – Little Smokey – Little wind – Slight rain
Began operations @ 8:00 am. Circulate & clean out well bore. Continue to torque up 3451'. Lose approximately 5 - 6 bbls of H2O overnight and while cleaning well bore. Drill on float collar on bottom & finish cleaning well bore. Trip out 109 – 2 3/8", 4.7#/ft, J55, 8rd joints of tubing with 3 7/8" bit. Remove bit and change over and trip in hole with 107 – 2 3/8", 4.7#/ft, J55, 8rd joints of tubing with 4 1/2" x 2 3/8" AD-1 packer. Shut down operations @ 3:30 pm.

Total Rig Hours: 7 1/2hrs x \$260.00 =	\$1,950.00
Daily Pickup: 2 trucks = 2hrs x \$60.00	\$120.00
Pickup Travel: 2hrs x \$45.00/man =	\$270.00
Fuel Surcharge: 10%	= \$305.00
Environmental & Safety	= \$50.00
Supervisor & Tool Pusher	= \$350.00
Pump and Tank	= \$550.00
Power Swivel	= \$550.00
Change Over for Bit	= \$50.00
Wellhead Rubber	= \$300.00
Trailer	= \$100.00
Pipe Dope	= <u>\$25.00</u>
Total Daily Costs	= \$4,620.00
1 day consulting: \$1500/2	= \$750.00
Mileage: 60 miles x \$1.00	= <u>\$60.00</u>
	\$810.00
Total Costs	= \$5,430.00

Monday
September 19, 2022

60°F – Partly Cloudy
Began operations @ 8:00 am. Well on a vacuum. Set 4 1/2" x 2 3/8" AD-1 packer with 15,000#/s over string weight. Tubing string as follows:

1 – 4 1/2" x 2 /38" AD-1 Packer	=	2.50'
1 – 2 3/8" Seating Nipple	=	1.10'
107 joints 2 3/8", 4.7#/ft, J55 8rd, ST&C	=	3366.36'
Total String	=	3369.96
KB	=	<u>3.00'</u>

Packer set @ = 3372.96' KB

Pressure tested and pressure up backside to 500#/s. Held OK. Acidized well with 100 gallons 28 Hcl. Acid job as follows:

Acid Job = 1000 gallons 28% Hcl

Pumped 1.0 bbls acid @ 1.5 bbl/min @ 500#/s
Pumped 2.3 bbls acid @ 1.5 bbl/min @ 750#/s
Pumped 10 bbls acid @ 1.5 bbl/min @ 1000#/s
Pumped 10 bbls acid @ 1.5 bbl/min @ 1000#/s
Total 23.8 bbls acid

Pumped 5.0 bbls of water after acid job. Shut down for 5 minutes and pressure dropped form 1000#/s to 500#/s.

Over-Displaced Acid job with 35 bbls as follows:

Pumping @ 3.0 bbls/min @ 1250#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1500#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1750#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1850#/s 5 bbls displaced

Total 35.0 bbls displaced

Instant Shut in = 1500#/s
5 min shut in = 1100#/s
10 min shut in = 900#/s
15 min shut in = 800#/s

Well flowed back 11.0 bbls after acid job. Tripped in with 3 7/8" bit and sub and tagged on the 100th joint. Tubing string as follows:

1 – 3 7/8" Bit = 2.50'
1 – 3 7/8" x 2 3/8" changeover sub = 1.10'

110 joints of 2 3/8" x 4.7#/ft, J55
8rd, ST&C Tubing = 3460.70'
3464.30'
3' KB = 3.00'
Total String = 3467.30' KB

Drilled down on the 110th joint. Drilled fairly easy with a few tight spots. Shut down operations @ 6:00 pm

Total Rig Hours: 10hrs x \$260.00	=	\$2,600.00
2 Trucks: 2 x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$370.00
Environmental & Safety	=	\$50.00
Supervisor & Tool Pusher	=	\$350.00
New 3 7/8" Bit	=	\$1,400.00
Pump and Circulating Tank	=	\$550.00
Power Swivel	=	\$550.00
Trailer	=	\$100.00
Tubing Wiper Rubber	=	\$25.00
Bit Changeover 3 7/8" x 2 3/8"	=	\$50.00
Pipe Dope	=	\$25.00
1 – 4 1/2" AD-1 Packer (Acid Job)	=	<u>\$250.00</u>
		\$6,710.00

1000 gallon 28% Hcl Acid Job

1 – Acid Pump Truck	=	\$1,600.00
1 – Bulk Acid Truck	=	\$750.00
Bulk Mileage: 4.00/mile	=	\$160.00
1000 gallons 28% Acid \$3.25/gallon	=	\$3,250.00
Additives	=	\$549.50
Fuel Surcharge: 10%	=	\$301.00
Environmental	=	\$75.00
2 Travel \$45.00/man	=	<u>\$90.00</u>
		\$7,164.50

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily = \$14,684.50

**Tuesday
September 20, 2022**

**49°F – Partly Cloudy – Wind from N to NW.
Began operations @ 8:00 am. Picked up 111 joint and
drilling. Tubing string as follows:**

1 – 3 7/8" Bit	=	2.50'
1 – 3 7/8" x 2 3/8" change over	=	1.10'
111 joints 2 3/8" x 4.7#/ft		
J55, 8rd, ST&C Rge 3	=	3492.28'
Total String	=	3495.88'
3.0 KB	=	<u>3.00'</u>
		3498.88' KB

Drilled to total depth 3498.88 KB. Drilling fairly well.
 Drilling slows down after a break. Have not lost volume.
 Drilled to total depth 3499' KB Shut down operations @
 5:30 pm

Total Rig Hours: 9 ½ hrs x \$260.00=	=	\$2,410.00
Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/hr/man	=	\$270.00
Fuel Surcharge: 10%	=	\$357.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$350.00
Power Swivel	=	\$550.00
Trailer	=	\$100.00
BA Sub and Cross Over	=	\$50.00
Pipe Dope	=	<u>\$25.00</u>
		\$4,892.00
Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total Costs	=	\$5,702.00

Wednesday
 September 21, 2022

32°F – Sunny – No Wind
 Began operations @ 8:00 am. Circulated and clean open hole to 3499' KB by operator. Circulated hole 30 minutes to clean to total depth. Tripped 3 7/8" bit and tubing out of hole. Tripped in 4 ½" x 2 3/8" AD-1 packer for acid job. Tubing string as follows:

1 – 4 ½" x 2 3/8" AD-1 Packer	=	2.50'
1 – Seating Nipple	=	1.10'
107 joints 2 3/8", 4.7#/ft, J55, 8rd Tubing	=	3366.36'
Total String	=	3369.96'
KB	=	<u>3.00'</u>
		3372.96 KB

Circulated corrosion inhibitor on the backside. Set 4 ½" x 2 3/8" AD-1 packer set @ 3372.96 KB with 15,000 #/s over string weight. Pressure up backside to 500#/s. Held OK. Need to repair pump truck. Shut down operations @ 5:00 pm.

Total Rig Hours: 9 hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60/truck	=	\$120.00

Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$289.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$550.00
Power Swivel	=	\$200.00
Redress 4 ½" AD Packer	=	\$500.00
Bit Crossover Sub	=	\$50.00
Dope	=	\$25.00
Trailer	=	<u>\$100.00</u>
Total Daily Costs	=	\$4,844.00

Other Costs		
1 Pump Truck	=	\$750.00
Vacuum Truck: 2 hrs x \$145/hr	=	\$290.00
Environmental: \$75.00/day	=	\$75.00
Fuel Surcharge: 10%	=	<u>\$104.00</u>
Total Costs	=	\$1,219.00

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
Total Costs	=	\$810.00

Total Daily Costs = \$6,873.00

Thursday
September 22, 2022

46°F – Cloudy – Slight Rain – Wind from SW
Began operations @ 10:00 am. Moved in and rigged up
Liquid Gold Well Service Acid Bulk Truck and Pump
Truck. Acidized well with 1000 gallons 28% Hcl.
Acid job as follows:

1000 gallons 28% Hcl Acid
23.8 bbls of Acid
13.55 bbls of tubing volume

Began job @ 10:52 am:

Pumped 28.0 bbls of acid from 300#/s to 800#/s @ 1.5
bbls/minute
Finished pumping acid @ 800#/s @ 1.5 bbls/minute
Shut down and pressure dropped to 500#/s

Displaced 48.0 bbls as follows

Pumped 13.5 bbls 110#/s @ 1.6 bbls/minute
Over-displaced by 35bbls as follows

Pumped 5.0 bbls @ 1600#/s @ 3 bbls/minute
Pumped 10.0 bbls @ 1650#/s @ 3 bbls/minute
Pumped 10.00 bbls @ 1700#/s @ 3 bbls/minute
Pumped 10.0 bbls @ 1700#/s @ 3 bbls/minute

Pumped 48.5 bbls displacement

Instant shut in	=	1100#/s
5 min shut in	=	650#/s
10 min shut in	=	350#/s
15 min shut in	=	200#/s

Well in a vacuum. Rigged down Liquid Gold Well Service. Ran MIT test for state @ 3:00 pm. Pressured up backside to 345#/s. Slow leak. Moved packer and pulled 15,000#/s over packer. Pressure tested to 350#/s. Failed test. Pulled tubing and packer to repair leak. Shut down operations @ 5:30 pm

Total Rig Hours: 7 ½ hrs x \$260.00	=	\$1,950.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$250.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$500.00
Tailer	=	<u>\$100.00</u>
Total Costs	=	\$3,640.00

Acid Job

1 Pump Truck	=	\$1,600.00
Bulk Acid Truck	=	\$750.00
Bulk Mileage: 4.05/miles	=	\$160.00
1000 Bulk Acid: 3.25/gallon	=	\$3250.00
Additions	=	\$684.50
Fuel Surcharge: 10%	=	\$280.50
2 Vacuum Trucks: \$145.00/load	=	\$290.00
Environmental & Safety	=	<u>\$75.00</u>
Total Costs	=	\$7,254.50

MI Test

Tanker Truck: 2 ½ hrs x \$165.00	=	\$412.50
Vacuum Truck: 2 ½ hrs x \$145.00	=	\$290.00
Pickup: 1 truck x \$60.00	=	\$60.00
Travel: 1 hr x \$45.00/man	=	\$90.00
Fuel Surcharge: 10%	=	<u>\$70.00</u>
Total Costs	=	\$922.50

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
Total Costs	=	\$810.00

Total Costs = \$12,627.00

**Friday
September 23, 2022**

**55°F – Clear – Slight wind from the East
Began operations @ 8:00 am. Tripped 2 3/8", 4.7#/ft, J55, 8rd, with 4 1/2" scraper to 3373' KB. Added 10' tubing sub and cleaned to 3383 KB. Dropped standing valve and pressured tubing to 500#/s. Slow leak. Pressure testing tubing to 1000#/s. Could not find hole. Ran 45 joints, ran 24 joints and ran 12 joints would hold 1000#/s and slowly leak off. Ran 2 more joints would not hold. Ran 83 joints into hole. Shut down operation for night. Did not find tubing leak. Shut down operations @ 4:00 pm.**

**Total Rig Hours: 8 hrs x \$260.00 = \$2080.00
Daily Pickup: 2 hrs @ \$60.00 = \$120.00
Pickup Travel: 2 hrs x \$45.00/man = \$270.00
Fuel Surcharge: 10% = \$208.00
Environmental and Safety = \$50.00
Supervisor/Tool Pusher = \$350.00
Redress 4 1/2" AD-1 = \$500.00
4 1/2" Scraper = \$150.00
3 7/8" Bit on Scraper = \$200.00
Trailer = \$100.00
Pipe Dope = \$25.00
Total Costs = \$4,053.00**

**1 day Consulting: \$1500/2 = \$750.00
Mileage: 60 miles x \$1.00 = \$60.00
\$810.00**

Total Costs \$4,863.00

**Tuesday
September 27, 2022**

**82°F – Clear – Wind from South 8 -10 mph
Tripping in hole and pressuring tubing to find leak. Pressured to 2000#/s and Held OK. Added 2 joints and pressured to 2000#/s. Slow leak. Found leak on the 100th joint. Very small leak. Could not find without pressure on tubing. Tripped 2 3/8" x 4.7#/ft, J55 with 4'6" packer. Fished standing valve with sand line. Tubing string as follows. Replace 110 joint was 31.70' with a new joint of 31.60'.**

**1 – 4 1/2" AD-1 Packer = 2.50'
1 – 2 3/8" Seating Nipple = 1.10'**

**107 joints 2 3/8", 4.7#/ft, J55
8rd tubing = 3366.26'**

Total String = 3369.86 Gr

$$3.0' \text{ KB} = \frac{3.0'}{3372.86 \text{ KB}}$$

Filled the backside with produced H2O. Ran MIT on well as follows

MIT Test
Began @ 4:32 pm

<u>Time</u>	<u>Pressure</u>	<u>Time Sch</u>
4:32 pm	360#/s	0
4:37 pm	360#/s	4:37 5 minutes
4:42 pm	360#/s	4:42 10 minutes
4:47 pm	360#/s	4:47 15 minutes

MIT Passed

Tuesday
September 27, 2022

83°F – Sunny – 5 -10 mph from SW
Passed MIT test. Shut down operations @ 5:00 pm

Total Rig Hours: 9hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$249.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Water Truck: 2 hrs x \$75.00	=	\$150.00
Pipe Dope	=	\$25.00
Redress 4 ½" AD-1 (new rubber, shewing and labor)	=	<u>\$200.00</u>
Total Costs	=	\$3,704.50

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Cost = \$4,514.50

Wednesday
September 28, 2022

56°F – Sunny – Slight wind @ 5-10 mph from S
Began operations @ 8:00 am. Circulating hole with fresh water and corrosion inhibitor. Set 4 ½" x 2 3/8" AD-1 with 12,000#/s over string weight. Test MIT and lost a few pounds. Pulled 22,000#/s over string weight. Ran MIT test for State Inspector Gary Klotz

<u>Time</u>	<u>Pressure</u>	<u>Elapsed Time</u>
9:56 am	378#/s	0
10:01 am	375#/s	5 min
10:06 am	375#/s	10 min

10:11 am 375#/s 15 min

Passed MIT @ 10:11 am. Passed by State of MT
Inspector Gary Klotz. Rigged down Liquid Gold Well
Service. Moved rig to yard. Shut down operations @
11:00 am

Total Rig Hours: 3 hrs x \$260.00	=	\$780.00
Daily Pickup: 2 hrs x \$60.00	=	\$120.00
Rig Travel: 3 ½ hrs x \$45.00/man	=	\$785.00
Fuel Surcharge: 10%	=	\$158.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Water Truck: 2 hrs x \$75.00	=	<u>\$150.00</u>
Total Costs	=	\$393.00

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Costs	=	\$3,203.00
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Total Workover Costs	=	\$66,885.00
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CHANGE OF OPERATOR RECORD

JODY FIELD 34-1
29N, 6W, Sec. 34: SESW
API #073-21830

TO: Mountain View Energy, Inc.
FROM: Altamont Oil & Gas, Inc.
DATE: August 17, 2010

RECEIVED

Form No. 4 R 4-85

FEB - 5 2009

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

LOCATE WELL CORRECTLY

		34	

(SUBMIT IN TRIPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

MONTANA BOARD OF OIL
& GAS OWNERS. BILLINGS

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease JODY FIELD Well No. #34-1

Address PO BOX 488 - CUT BANK MT 59427 Field (or Area) WIDL CAT

The well is located 330 ft. from (S) line and 2310 ft. from (W) line of Sec. 34

Sec. 34; T. 29N; R. 6W; County PONDERA; Elevation 4071' GL
(D.F., R.B. or G.L.)

Commenced drilling APRIL 30, 2008; Completed MAY 6, 2008

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL Signed PATRICK M. MONTALBAN
(oil well, gas well, dry hole)

API# 25-073 - 21830 Title PRESIDENT & CEO

Date DECEMBER 31, 2008

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>3428'</u> to <u>3432'</u> Water	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	674.94'	0	674.94'	175 Sacks	Class G Cement
4-1/2"	10.5#/ft	J55	ST&C	3539.71'	674.94'	3535.71'	100 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations

COMPLETION RECORD

Rotary tools were used from 0 to 3540' 3543

Cable tools were used from _____ to _____

Total depth 3540 ft.; Plugged back to _____ T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3428'	3432'	3-1/8" HSD - 17 Shots				
3440'	3442'	3-1/8" HSD - 9 Shots				
3442'	3446'	3-1/8" HSD - 17 Shots				

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from MADISON (pool) formation.

Swab tested 2 to 3 percent oil cut
I.P. _____ barrels of oil per _____ hours (pumping or flowing)

_____ Mcf of gas per _____ hours.
_____ barrels of water per _____ hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
	NONE							

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
Platform Express		
Compensated Neutron	675'	3535'
Three Detector		
Density	675'	3535'

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

RECEIVED

JAN -7 2009

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Electric Log Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1780	+2296
Blackleaf Bentonite Marker	1820	+2256
Blackleaf Sandstone	1826	+2250
Base Fish Scales	--	--
1 st Bow Island	1878	+2198
2 nd Bow Island	2030	+2046
3 rd Bow Island	2132	+1944
4 th Bow Island "A"	2376	+1700
4 th Bow Island "B"	2423	+1653
Dakota	2544	+1532
Kootenai	2586	+1490
Sunburst	3081	+995
<u>Jurassic</u>		
Morrison	3152	+924
Swift	3186	+890
Swift Shale	3274	+802
Rierdon(Ellis Shale)	3327	+749
Sawtooth	3404	+672
<u>Mississippian</u>		
Madison(Sun River Dolomite)	3428	+648
<u>Total Depth:</u>	3543	+533

FORM NO. 22 R7/99

SUBMIT IN QUADRUPLICATE TO:

ARM 36.22.307
ARM 36.22.601**MONTANA BOARD OF OIL AND GAS CONSERVATION**
2535 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102Lease Name:
JODY FIELD #34-1Lease Type (Private/State/Federal):
PRIVATE

Well Number:

34-1

Unit Agreement Name:

Field Name or Wildcat:

WILDCAT

Objective Formation(s):

BOW ISLAND, SUNBURST & MADISON

Section, Township, and Range:

SECTION 34-T29N, R6W

County:

PONDERA

RECEIVED

APR 14 2008

**MONTANA BOARD OF OIL
& GAS CONSERVATION, BILLINGS****Application for Permit**To: Drill Deepen Re-enter
Oil Gas Other

Operator: ALTAMONT OIL & GAS, INC

Address PO BOX 488

City CUT BANK State MT ZIP 59427

Telephone Number (406) 873-9000

Surface Location of Well (quarter-quarter section and footage measurements)

SESW-SECTION 34-T29N-R6W
(330' FSL x 2310' FWL)

(If directionally drilled, show both surface and bottom hole locations above)

Proposed total depth 3,450'	Formation at total depth MADISON/SUN RIVER	Elevation (indicate GL or KB) 4071' GL
Size and description of drilling/spacing unit 40 ACRES (SESW)	API number of another well on this lease (if any)	Anticipated spud date

Hole size	Casing size	Weight/foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
8-3/4"	7"	17#/ft	J55	650'	245 sx	Class G
6-1/4"	4-1/2"	9.5#/ft	J55	3,450'	100 sx	Class G

Describe Proposed Operations:

Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.

Altamont Oil & Gas, Inc proposes to drill this well to test for oil and or gas in the Bow Island, Sunburst & Madison formations. No DST's or cores are planned. Surface casing will be cemented from surface to approximately 650' ensuring good returns to surface. The well will be drilled with air and drilling mud from casing point to TD. Open hole logs will be run from surface to TD. Production zones will be perforated & tested. Blowout equipment will be as indicated on the attached exhibit and will be tested at regular intervals.

BOARD USE ONLY

Approved (date) APR 21 2008 Permit Fee \$2500 / \$5000
By Steve P. Stank Check Number 10003 / 11160
Title CHIEF FIELD INSPECTOR Permit Expires OCT 21 2008
Permit Number 26562

The undersigned hereby certifies that the information contained on this application is true and correct:

Signed (Agent) Patrick M. MontalbanTitle President & CEODate 4/9/2008THIS PERMIT IS SUBJECT TO THE
CONDITIONS OF APPROVAL
STATED ON THE BACKAPI Number 25- 073 - 21830

Samples Required: NONE ALL FROM _____ feet to _____ feet
Core chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:
Montana Board of Oil and Gas Conservation
2525 St. Johns Avenue
Billings, MT 59102

SUPPLEMENTAL INFORMATION

Note: Additional information or attachments may be required by Rule or by special request.

- X 1. Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
- X 2. Attach an 8 1/2 x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a 1/2 mile radius of the well.
- X 3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut /fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor.) Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications. N/A
5. Describe the proposed plan for the treatment and/or disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
N/A
6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:
- No additional permits needed
 - Stream crossing permit (apply through county conservation district)
 - Air quality permit (apply through Montana Department of Environmental Quality)
 - Water discharge permit (apply through Montana Department of Environmental Quality)
 - Water use permit (apply through Montana Department of Natural Resources and Conservation)
 - Solid waste disposal permit (apply through Montana Department of Environmental Quality)
 - State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
 - Federal drilling permit (specify agency)
 - Other federal, state, county, or local permit or authorization: (specify type) _____

NOTICES:

1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

WARNING: Failure to comply with conditions of approval may void this permit.

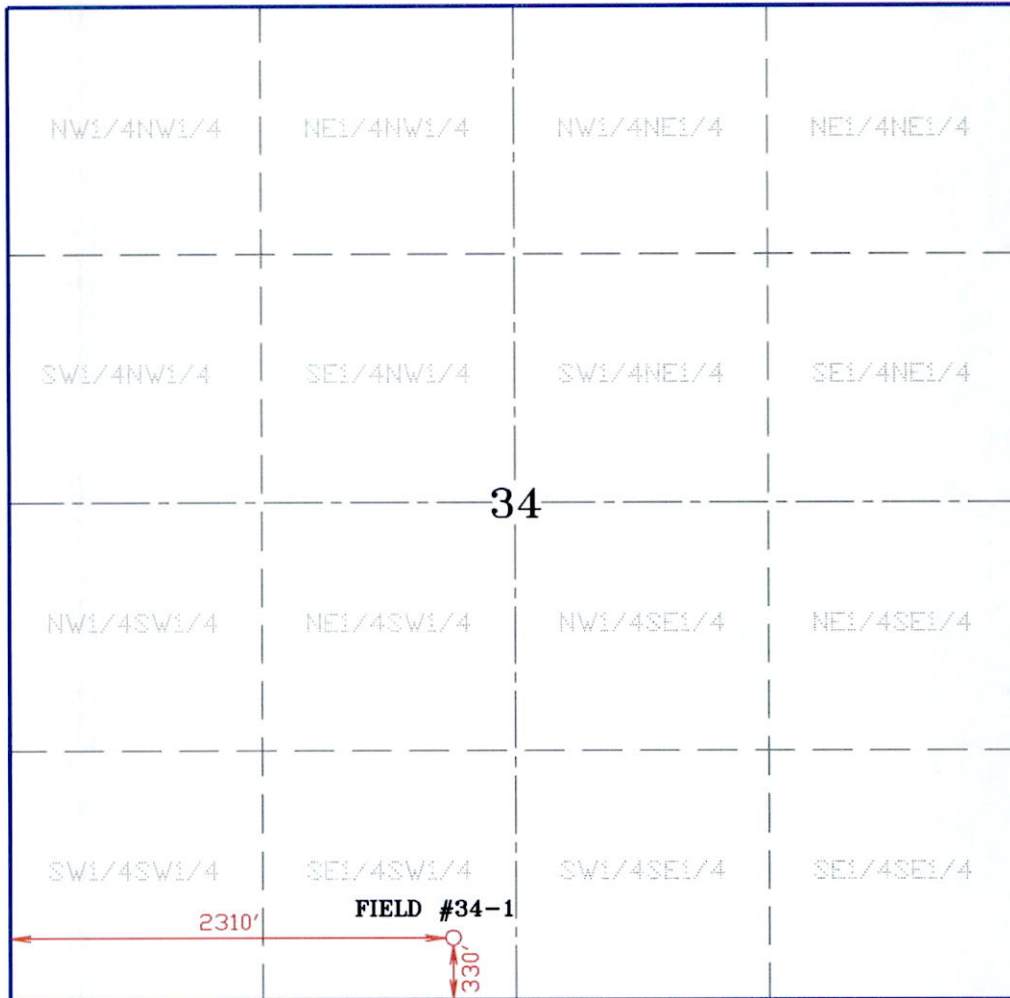
RECEIVED

WELL LOCATION

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA
330' FSL X 2310' FWL
ELEVATION BEFORE GRADING: 4071'

APR 14 2008

MONTANA BOARD OF OIL
& GAS COMS. BILLINGS



T29N R6W

ELEVATION BEFORE GRADING: 4071'
BASIS - NAVD 29

GEOGRAPHIC COORDINATES:
48°13'21.9" N 112°22'16.1" W (NAD 83 BASIS)

BASE POSITION FOR GEOGRAPHIC COORDINATES:
48°12'38.97587" N 112°22'44.76679" W (NAD 83 BASIS)
(NGS CONTROL POINT CONE, THIRD ORDER)

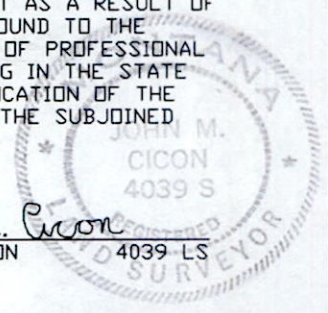
LAND USE: CULTIVATION (CRP)

NO ATTEMPT HAS BEEN MADE BY THE SURVEYOR TO LOCATE UNDERGROUND STRUCTURES OR BURIED UTILITIES, AND APPROPRIATE AGENCIES AND SURFACE LANDOWNERS MUST BE CONTACTED FOR FIELD LOCATION OF ANY UNDERGROUND STRUCTURES OR BURIED UTILITIES BEFORE ANY CONSTRUCTION COMMENCES. CALL 1-800-424-5555 BEFORE ANY CONSTRUCTION COMMENCES.

NOTE: SUBDIVISION LINES AND GOVERNMENT LOT BOUNDARIES ARE SHOWN FOR DEPICTIVE PURPOSES ONLY AND SHOULD NOT BE USED FOR SCALING OR LOCATION PURPOSES.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION AND BELIEF, I CERTIFY THAT AS A RESULT OF A SURVEY MADE ON THE GROUND TO THE NORMAL STANDARD OF CARE OF PROFESSIONAL LAND SURVEYORS PRACTICING IN THE STATE OF MONTANA, I FIND THE LOCATION OF THE FIELD #34-1 AS SHOWN ON THE SUBJOINED DRAWING.

John M. Cicon
JOHN M. CICON 4039-LS




REQUESTED BY: ALTAMONT OIL & GAS, INC.
P.O. BOX 488
CUT BANK, MONTANA 59427

SCALE 1"=1000'

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.

02-21-08

 CICON AND ASSOCIATES
BOX 541
CHESTER, MONTANA 59522

JOB NO. 08-010

DRAWING NO. 08010ALTASIG.DWG

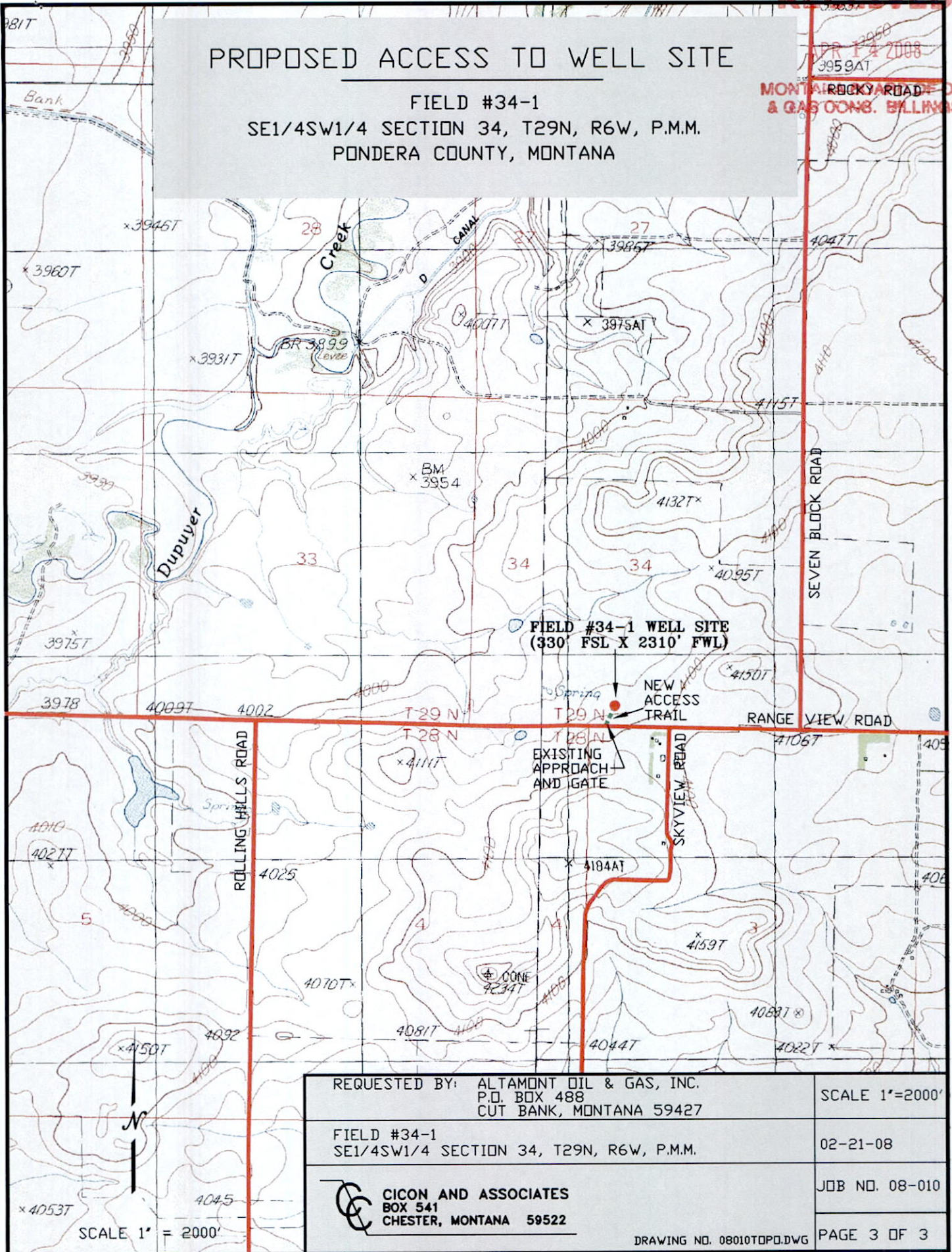
SHEET 1 OF 3

RECEIVED

PROPOSED ACCESS TO WELL SITE

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA

12050
APR 14 2008
3959AT
MONTANA ROCKY MOUNTAIN OIL
& GAS CONS. BILLINGS




REQUESTED BY: ALTAMONT OIL & GAS, INC.
P.O. BOX 488
CUT BANK, MONTANA 59427

SCALE 1"=2000'

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.

02-21-08

 CICON AND ASSOCIATES
BOX 541
CHESTER, MONTANA 59522

JOB NO. 08-010

SCALE 1" = 2000'

DRAWING NO. 08010TOPD.DWG

PAGE 3 OF 3

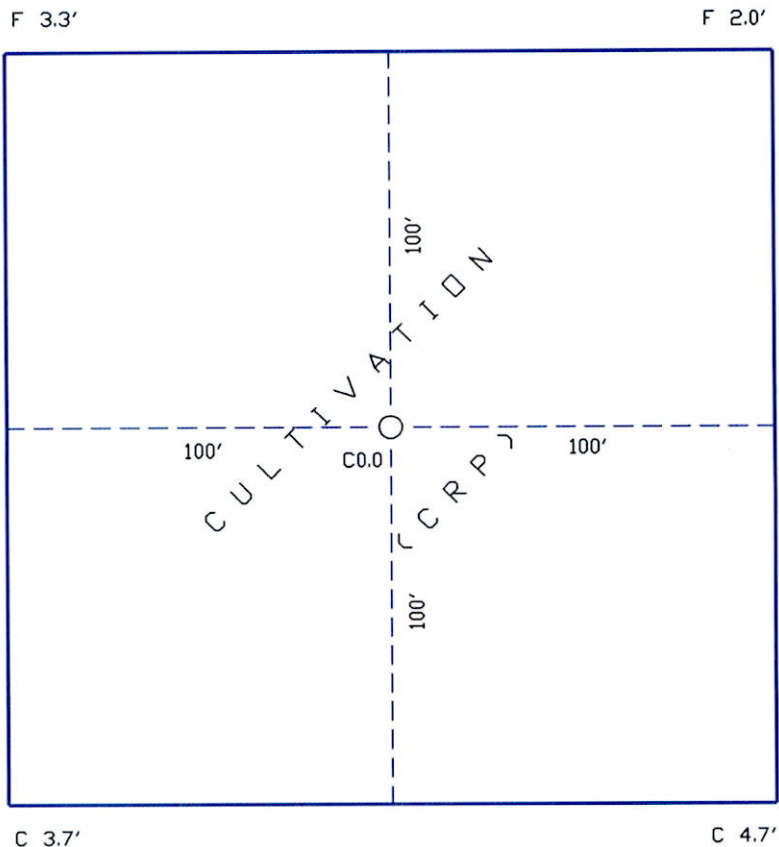
RIG PAD SITE

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA

RECEIVED

APR 14 2008

**MONTANA BOARD OF OIL
& GAS COMB. BILLINGS**



GENERAL CUTS AND FILLS OF PROPOSED RIG PAD


LAND USE: CULTIVATION (CRP)

ELEVATION OF LOCATION BEFORE GRADING: 4071'
BASIS OF ELEVATIONS: NAVD 29

NOTE:
CUTS AND FILLS NOTED ARE FOR PURPOSES OF DESCRIBING
THE GENERAL TOPOGRAPHY OF THE PROPOSED RIG PAD AND
ARE NOT INTENDED FOR CALCULATION OF DIRTWORK QUANTITIES
OR OTHER CALCULATIONS.



SCALE 1" = 50'

REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=50'
FIELD #34-1 SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.	02-21-08
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 08-010
	SHEET 2 OF 3

DRAWING NO. 08010CDN.DWG

RECEIVED

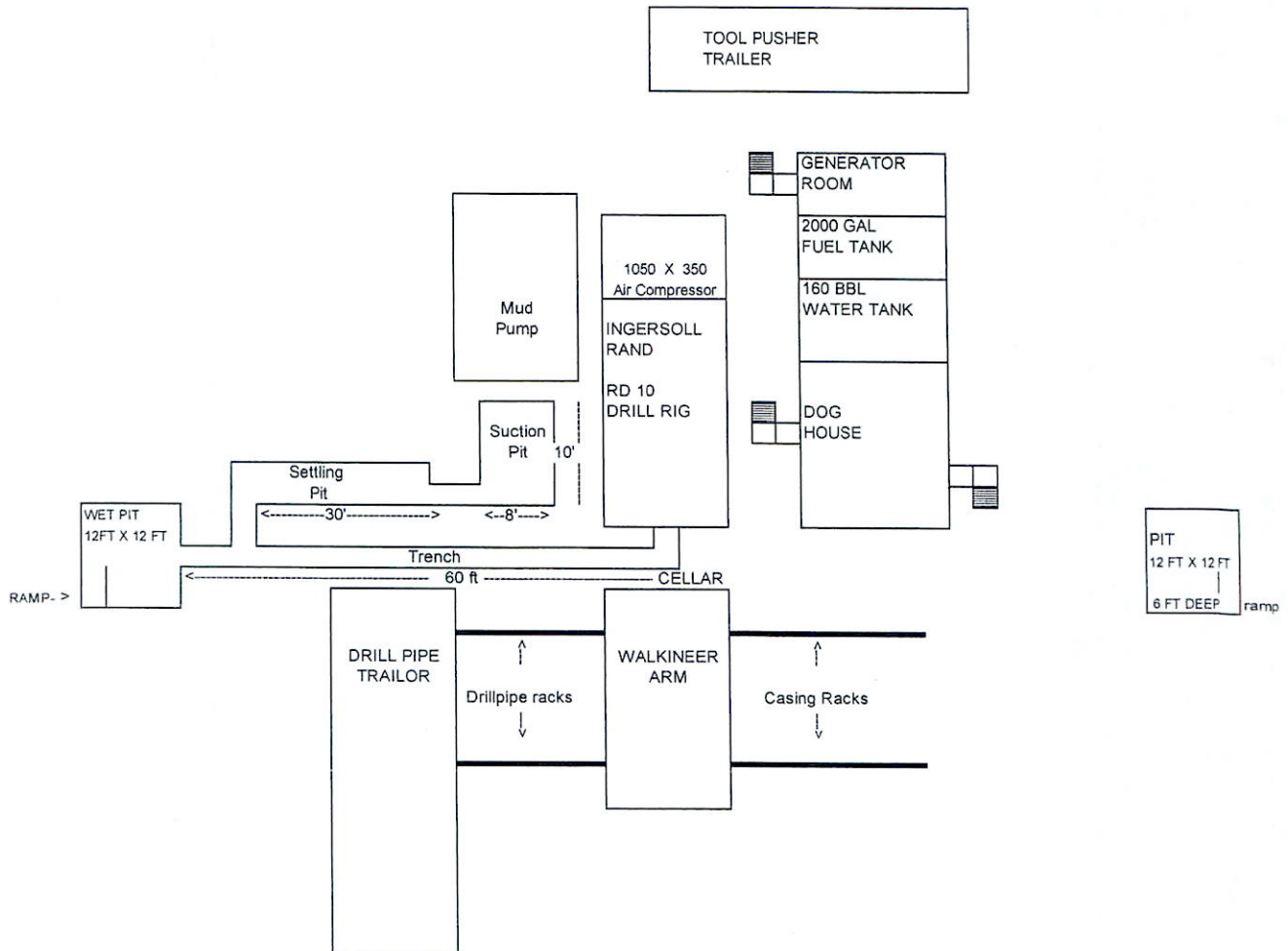
APR 14 2008

MONTANA BOARD OF OIL
& GAS CONSR. BILLINGS

LOCATION LAYOUT

Gasco Drilling LLC

P.O. Box 963 Shelby, Mt 59474 Phone (406) 434-3603 Fax (406) 434-3863



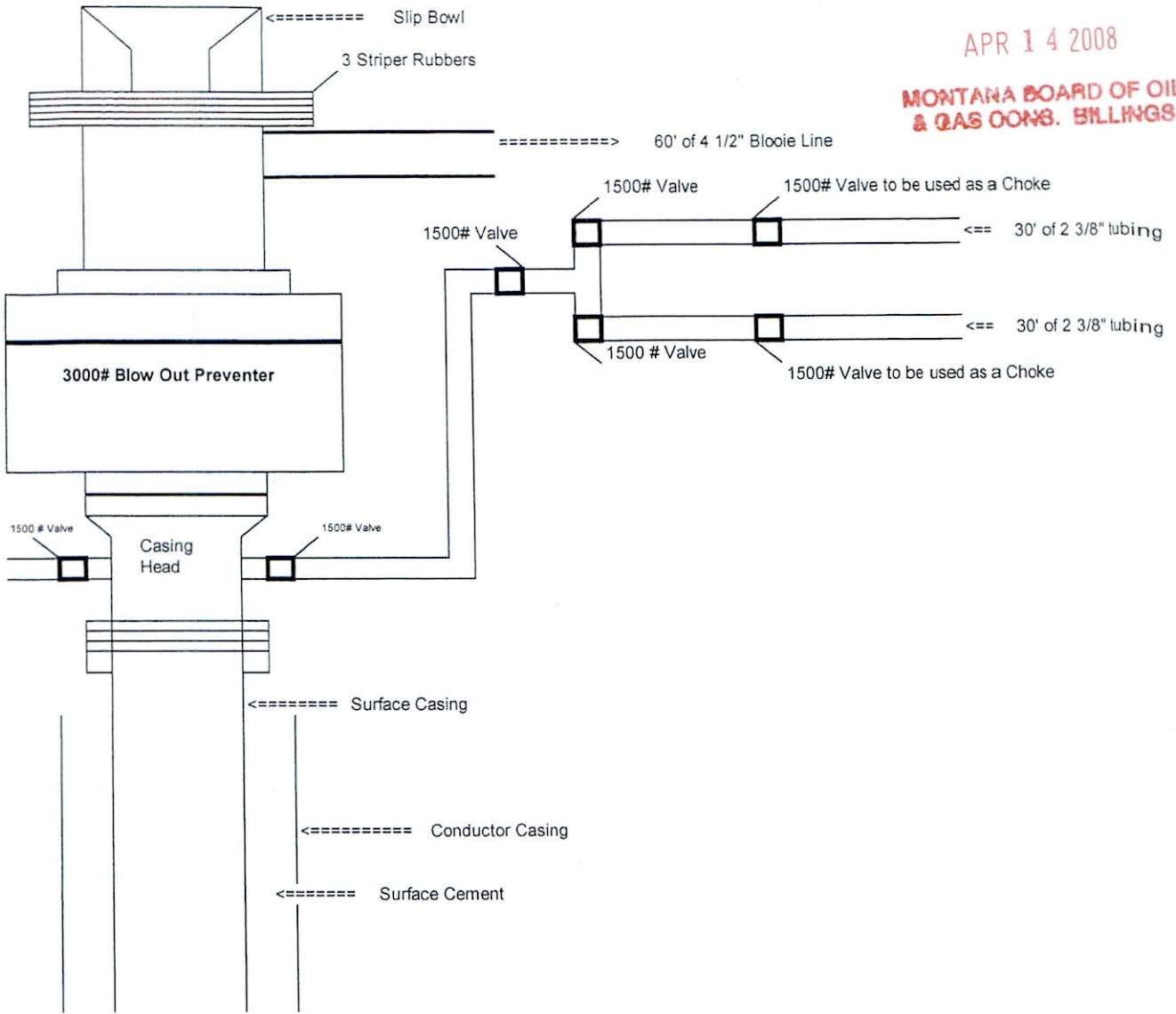
DIMENSIONS OF LOCATION: 200 X 200

SETTLING PIT IS 6' WIDE BY 45' LONG . SUCTION PIT 8' WIDE BY 10' LONG

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONS. BILLINGS



BOP STACK

RECEIVED

MAY 28 2004

ALTAMONT OIL & GAS, INC

RECEIVED

APR 14 2008

REGAN OFFSHORE INTERNATIONAL, INC.

Torrance, Calif.

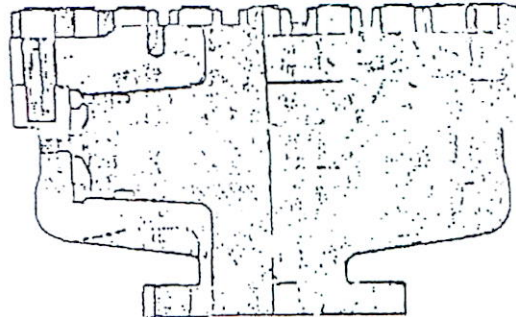
MONTANA BOARD OF OIL & GAS CONG. BILLINGS

REGAN BLOWOUT PREVENTERS

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 2000 PSI working pressure

DESIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
 - b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore. The packer will seal on open hole at full working pressure.
- The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



SPECIFICATIONS

Nominal Size	Test Pressure (PSI)	DIMENSIONS (IN.)			Weight (LBS.)	End Flanges (1)	O/RK (Inch Crawlers)	Stab Outlet
		Outside Diameter	Thru Bore	Overall Height				
6	1000	21 1/4	21 1/4	21 1/4	1300	Nom. B	61	None
8	1000	27 1/4	27 1/4	27 1/4	1550	Nom. B	61	2" L.P.
10	1000	33 1/4	33 1/4	33 1/4	2075	Nom. B	61	None
12	1000	39 1/4	39 1/4	39 1/4	2400	Nom. B	61	2" L.P.

(1) Outside Gauge Holes provided for use with either 2000 W. 2-LB or API-600 Control. (1) 1/2" can be used with 600 psi. 600 psi. (2) 1/2" can be used with 1000 psi. 1000 psi. (3) 1/2" can be used with 1000 psi. 1000 psi. (4) 1/2" can be used with 1000 psi. 1000 psi. (5) 1/2" can be used with 1000 psi. 1000 psi.

B.O.P. SPECIFICATIONS

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE
City CUT BANK	State MT	Zip Code 59427
Telephone 406-873-2235		Fax 406-873-2835
Well Number: 34-1		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE
Township, Range, and Section: SECTION 34-T29N-R6W		County: PONDERA
API Number: <u>25</u> <u>073</u> <u>21830</u> State County Well	Well Type (oil, gas, injection, other): OIL	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) <u>CONVERT TO INJECTION WELL</u>	<input checked="" type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

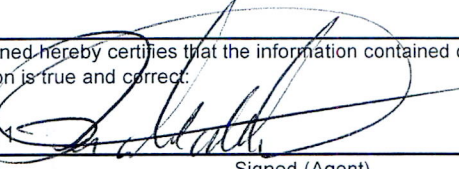
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

SEE STIPULATIONS ON BACK

BOARD USE ONLY	
Approved <u>AUG 11 2011</u>	Date
Original Signed By George Hudak, UIC Director	
Name	Title

The undersigned hereby certifies that the information contained on this application is true and correct.

6/21/2011 

Date Signed (Agent)

Patrick M. Montalban, President & CEO

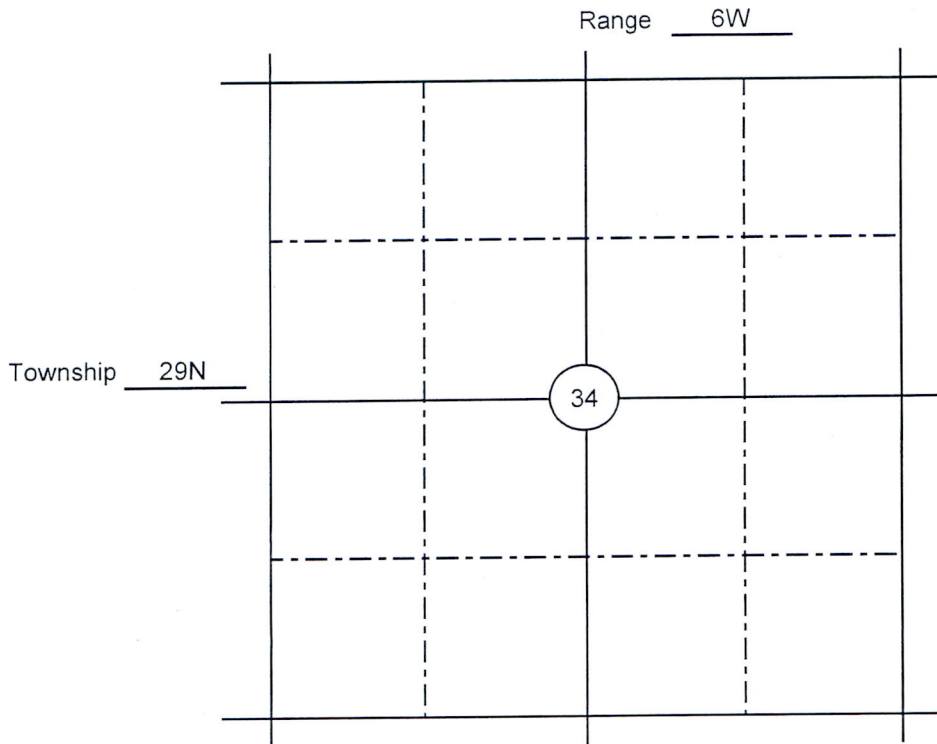
Print Name and Title

Telephone: (406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

- Injection well bond required before injecting.
- MIT required before injecting.
- Set packer 3328 ft. or deeper
- Injection pressure limited to 1,019 psig.
- An aquifer exemption must be approved by EPA before injecting. (sent to EPA 7-28-11).

Failure to comply with the conditions of approval may void this permit.

RECEIVED

JUN - 6 2011

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Well Type (oil, gas, injection, other): OIL	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

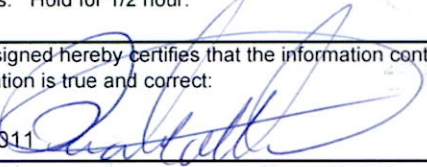

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input checked="" type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input checked="" type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>

Describe Proposed or Completed Operations:
Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

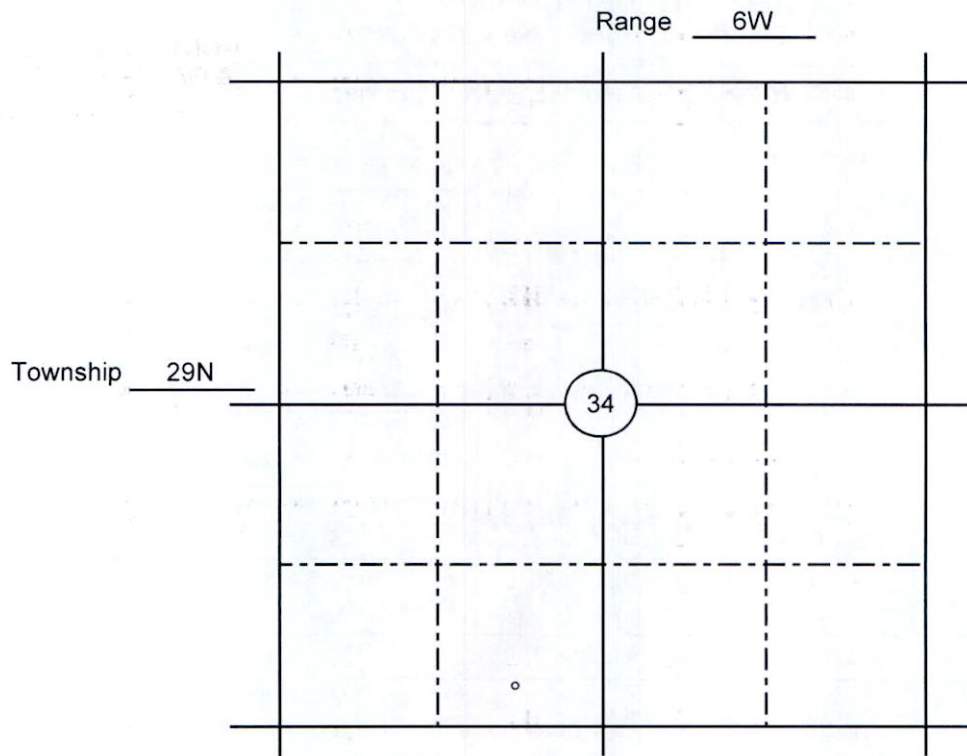
Move in and rig up. Dig drill hole to swab test. Perforate from 3448'-3452' and swab test for 4 hours. Additional perforations:
3452'-3460'
3460'-3466'
3470'-3480'
3480'-3490'
3490'-3496'

Rig up Liquid Gold Well Service and acidize well with 1,000 gallons of 28% HCl.
Run 4-1/2" packer and tubing in hole. Set packer at 3400'. Test packer to 1000 pounds. Hold for 1/2 hour.

BOARD USE ONLY		The undersigned hereby certifies that the information contained on this application is true and correct:	
Approved <u>JUN 06 2011</u> Date		5/23/2011 	
 Name	CHIEF FIELD INSPECTOR Title	Date	Signed (Agent)
		Patrick M. Montalban, President & CEO Print Name and Title	
		Telephone:	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.
Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

RECEIVED

MAY - 5 2008

MONTANA BOARD OF OIL
& GAS COMS. BILLINGS

SPUD INFORMATION

WELL NAME: Jody Field 34-1

API #: 25-073-21830

LOCATION: S 34 T29N 6W SE SW
(Twp-Rge-Sec: 1/4 1/4)

SPUD TIME: 11:30 Am Actual

DATE: 4-30-08

DRILLING COMPANY: Gasco

RIG #: # 7

CALLER'S NAME: Patrick Montalban

COMPANY NAME: Altamont Oil + Gas, Inc

OTHER: _____

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Altamont Oil & Gas, Inc.
Well Name/Number: Jody Field 34-1
Location: SE SW Section 34 T29N R6W
County: Pondera MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 4 to 5 days drilling time.

Unusually deep drilling (high horsepower rig): No, 3450' TD

Possible H₂S gas production: Yes

In/near Class I air quality area: No

Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

Air quality permit (AQB review)

Gas plants/pipelines available for sour gas

Special equipment/procedures requirements

Other: _____

Comments: No special concerns – using small rig to drill to 3450' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.

High water table: No

Surface drainage leads to live water: No, closest drainages are some unnamed ephemeral tributary drainages to Dupuyer Creek, about 3/8 of a mile to the west and 1/2 mile to the northwest from this location.

Water well contamination: No, closest water wells are about 3/4 of a mile to the north and south of this location and these wells are 207' and 90' in depth. Surface casing will be drilled with air and/or freshwater mud to 650' and steel surface casing set and cemented to surface from 650'. Small spring located on topographic map, about 1/8 of a mile to the northwest from this location.

Porous/permeable soils: No, sandy bentonitic soils.

Class I stream drainage: No

Mitigation:

Lined reserve pit

Adequate surface casing

Berms/dykes, re-routed drainage

Closed mud system

Off-site disposal of solids/liquids (in approved facility)

Other: _____

Comments: 650' of surface casing will be set and cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems or air to be used for drilling surface hole.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, no stream crossings.

High erosion potential: No, small cut, up to 4.7' and small fill, up to 3.3', required.

Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite: No, 200'X200' location size required.

Damage to improvements: No, surface use is cultivated field (CRP).

Conflict with existing land use/values: Slight

Mitigation

Avoid improvements (topographic tolerance)

Exception location requested

Stockpile topsoil

Stream Crossing Permit (other agency review)

Reclaim unused part of wellsite if productive

Special construction methods to enhance reclamation

Other _____

Comments: Access will be over existing county road, Barrett FLDS. A short road will be constructed, about 300' into this location. Drill cuttings will be buried in the unlined cuttings pit. Drilling fluids will be allowed to evaporate in the pits. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence buildings about 3/8 of a mile to the east of this location.

Possibility of H2S: Yes

Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time.

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: No concerns

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: Lake Frances about 7.5 miles to the northeast.

Creation of new access to wildlife habitat: None identified.

Conflict with game range/refuge management: None identified.

Threatened or endangered Species: None identified.

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: _____

Comments: Private surface lands. No concerns

Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites: None identified, private surface.

Mitigation

avoidance (topographic tolerance, location exception)

other agency review (SHPO, DSL, federal agencies)

Other: _____

Comments: Private surface. No concerns.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns.

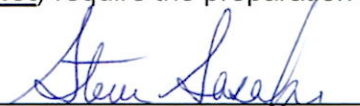
Remarks or Special Concerns for this site

Well is a 3450' Madison Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No, significant impacts expected, some short term impacts are expected, but should be able to mitigate these short term impacts.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki 

(title:) Chief Field Inspector

Date: April 15, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Pondera County water wells

(subject discussed)

April 15, 2008

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

AFFIDAVIT OF PUBLICATION
STATE OF MONTANA,
County of Lewis & Clark,

RECEIVED

APR - 9 2008

**MONTANA BOARD OF OIL
& GAS CONSERVATION. BILLINGS**

Beverly Allison

Being duly sworn, deposes and says:

That she is the principal clerk of the Independent Record a newspaper of general circulation published daily in the City of Helena, in the County of Lewis & Clark, State of Montana, and has charge of the advertisement thereof:

That the Oil & Gas - Jody Fields #34-1

a true copy of which is hereto annexed, was published in said newspaper on the following dates: viz.: April 5, 2008

making in all 1 publication(s).

Beverly G Allison

Subscribed and sworn to before me this 5 day of April, 2008.

Rose Marie Farr

NOTARY PUBLIC for the State of Montana
Printed Name: Rose Marie Farr
Residing at Helena, Montana
My commission expires 8-15-2010

(NOTARIAL SEAL)

**BEFORE THE BOARD OF OIL AND GAS
CONSERVATION
OF THE STATE OF MONTANA NOTICE OF
INTENTION TO APPLY
FOR PERMIT TO DRILL
OIL AND GAS WELL**

In the Matter of the application of
ALTAMONT OIL & GAS, INC
for a Permit to Drill an oil and gas well.

1. PO Box 488
Cut Bank, Montana 59427
2. Jody Fields #34-1
SE/4SW/4 - Section 34-T29N-R6W
(330' FSL x 2310' FWL)
Pondera County, Montana
3. Total Depth Proposed to be Drilled:
3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE. OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY; THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL; AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
April 5, 2008

Affidavit of Publication

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONSERV. BILLINGS

STATE OF MONTANA)

County of Pondera) ss.

John H. Lee

John H Lee

being duly sworn upon his oath says: That he is the Publisher of "The Independent-Observer," a weekly newspaper of general circulation, published weekly at Conrad, in the County of Pondera, State of Montana.

That the notice hereunto attached was published in the said "Independent-Observer" once each week for one successive weeks.

That the first publication of said notice was on the 10 day of April, 2008.

That the last publication of said notice was on the day of n/a, 20.....

That the said notice was published in the regular and entire issue of every said "Independent-Observer" during the period and time of said publication, and in the newspaper proper, and not in a supplement.

John H. Lee
Title: Publisher

Sworn to and subscribed before me this 10 day of April, 2008
Nancy Zelenka

Nancy Zelenka

Notary Public for the State of Montana, residing at Conrad, Montana. My commission expires

June 1, 2010

LEGAL NOTICE

BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

In the Matter of the application of)
) NOTICE OF)
) INTENTION TO APPLY)
) FOR PERMIT TO DRILL)
) ALTAMONT OIL & GAS, INC)
) OIL AND GAS WELL)
) for a Permit to Drill an oil and gas well.)
) 1. PO Box 488)
) Cut Bank, Montana 59427)
) 2. Jody Fields #34-1)
) SE/4SW/4 - Section 34-T29N R6W)
) (330' FSL x 2310' FWL))
) Pondera County, Montana)
) 3. Total Proposed Depth: 3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE, OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL, AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
Published April 10, 2008

RECEIVED

APR 11 2008

ALTAMONT OIL & GAS, INC

GaSCO Drilling LLC											
P.O. BOX 636		Shelby MT 58474		Phone (406) 434-3023			Fax (406) 434-3883				
Daily Field Report											
OPERATOR: AltaMont Oil & Gas Inc.				Depth at report time		Feet (24 Hours)		Weather:			
Lease and well name: Jody Field 34-1				3540		288		42 high clouds			
County:	State:	Field Name:		Last casing (OD & Depth)		Date	REPORT #	Reported By:			
Pondera	Montana	Wildcat Pondera		7" at 874.94'		5/5/2008	5	Bud Postma			
Activity at Report Time: Conditioning hole for logs											
From	To	Hours	Operations in Sequence								
07:00	17:15	10.25	Drill ahead with mud to 3415'								
17:15	18:15	1.00	Replace air hose on pump clutch								
18:15	02:30	8.25	Drill ahead with mud to 3540'								
02:30	03:30	1.00	Raise viscosity and condition hole								
03:30	04:00	0.50	Run survey 1 degree								
04:00	07:00	3.00	Short trip 1100'								
TOTAL HOURS		24.00									
CUMMED HOURS		120.00									
Mud Record:											
TIME	DEPTH	WT	VISC.	PH	WATER LOSS	COMMENTS					
09:30	3291	8.3	32	9.0	7.0						
12:30	3340	8.3	35	9.0	6.4						
18:00	3400	8.4	34	9.0	6.4						
20:00	3438	8.8	40	9.0	8.0						
24:00	3500	8.7	41	9.0	6.0						
04:00	3540	8.8	80	9.0	5.4	RAISE VISCOSITY FOR LOGS					
Bit Record:											
Bit #	Size	W.O.B.	R.P.M.	Make	Type	IN	OUT	JT. SZ	Ser. No.	Daily Costs	
2	6 1/4	20000	70	REED	SL51H	1673	3540	OPEN	PN3484	WOB	\$0.00
										WOC	N/A
										STANDBY	\$0.00
										DR-LOGS	\$0.00
										FOOTAGE COSTS	\$12300.00
Mud and Additives					Other Materials					DAY-WORK COSTS	
35 Sacks Max-Gel					2 Loads Water					Perable Tails:	\$20.00
2 Sacks Poly Pac UL					Survey at 3540' 1 degree					Garbage	\$20.00
					Pason with gas analyzer at \$225.00					Gring Product	\$859.30
										Water and heating?	\$400.00
											\$0.00
										DAILY COST	\$13599.30
											\$0.00
SUMMARY										TOTAL	\$13599.30
Drill ahead with mud to 3540'. Build viscosity and condition hole. Run survey 1 degree. Short trip 1100' out. Conditioning hole at 07:00.											

RECEIVED

MAY - 5 2008

MONTANA BOARD OF OIL & GAS CONSB. BILLINGS

LIQUID GOLD WELL SERVICE, INC.

RECEIVED

Cement Work Order
Phone 406-873-2966
Fax 406-873-2997

P.O. Box 757
Cut Bank, MT 59427

JUN - 9 2008

Invoice # 2047

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

Company Altamont
Address _____
City/State _____
Lease _____ Well Joly Fields 34-1
Long String _____ Surface Pipe X P & A _____ Camera _____

Date 5-1-08
Sec. 34 Twn. 29N Rng. 6W
County Pondera
Field Wildcat

API # 25-073-21830

Hole Size <u>8 3/4"</u>	Casing <u>2 1/2" 675' + 9.5'</u>	Plug #1 <u>675'</u>	to <u>0'</u>	Sacs <u>175</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing _____	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>679'</u> PBT _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP <u>44.6'</u>	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Travel to location, rig up, pump 20 bbls poly water ahead, pump 175 sac cement, displace plug with 26.55 bbls water wash up and rig down
11 bbls cement returns Plug down @ 1:15 pm

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>40</u>	Pump Truck Mileage			
<u>01</u>	Bulk Cement Truck			
<u>40</u>	Bulk Truck Mileage X 9.4 ton			
<u>175.5x</u>	Bulk Cement			
<u>87.5#</u>	Cellophane			
<u>1gal.</u>	Polymer			
<u>493.5'</u>	CaCl			
<u>01</u>	Pick Up Charge X 40 miles			
<u>01</u>	Fuel surcharge 15% (PT + BT)			

Cementer

Tom Noland, Adam, Steven

Date 5-1-08

Agent of Owner or Contractor

[Signature]

Date _____

LIQUID GOLD WELL SERVICE, INC.

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

RECEIVED

P.O. Box 757
 Cut Bank, MT 59427

JUN - 9 2008

Invoice # 2048

MONTANA BOARD OF OIL
 & GAS CONG. BILLINGS

Company Altamont
 Address _____
 City/State _____
 Lease _____ Well # 34-1
 Long String X Surface Pipe _____ P & A _____

Date 5-6-08
 Sec. 34 Twn. 29N Rng. 6W
 County Pondera
 Field Jody Feilds
 Camera _____

Hole Size	Casing	Plug #1	to	Sacs
<u>6 1/4"</u>	<u>4 1/2-3539.74'</u>	<u>3539.74'</u>	<u>2457.55'</u>	<u>1005X</u>
Drill Pipe	Casing	Plug #2	to	Sacs
Tubing	Casing	Plug #3	to	Sacs
TD <u>3540'</u> PBTB	Casing	Plug #4	to	Sacs
ECP <u>Flapper</u>	Casing	Plug #5	to	Sacs

Comments: Travel to location, rig up, take on water pump 10 bbls. Fresh water ahead, pump 1005x cement @ 10% salt and 10% fine mica, displace plug with 5697 bbls. water, pressure plug to 1000 # for 5 min. release pressure, wash up and rig down.

Plug down @ 1:30 AM

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>40</u>	Pump Truck Mileage			
<u>01</u>	Bulk Cement Truck			
<u>40</u>	Bulk Truck Mileage <u>4.7 ton</u>			
<u>1005X</u>	Bulk Cement			
<u>0</u>	Cellophane			
<u>0</u>	Polymer			
<u>0</u>	CaCl			
<u>01</u>	Pick Up Charge			
<u>940 #</u>	salt			
<u>940 #</u>	Mica			
<u>1082'</u>	cementing over 1500'			
<u>01</u>	Fuel surcharge 15% (PT+BT)			

Cementer

Todd Motenda, Terrance, John

Date 5-6-08

Agent of Owner or Contractor

[Signature]

Date _____

Date 2-JUNE-2011 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 20367 LEASE/LOCATION JODY FIELD #34-1

STATE MONTANA COUNTY PONDERA LEGAL SE-SE-SW 4-28N-6W

ELEVATION 4071' KB ELEVATION 4076' DRILLER TD 3540' FIELD WILDCAT

COMPETITION PERSONNEL J Brown / S Seifert / M Fugle UNIT # 27 / CUT BANK, MT

COMPANY MOUNTAIN VIEW ENERGY, INC. BY [Signature]

ADDRESS _____

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
		Casing	Lb/Ft	From	To
<u>4501</u>	SERVICE CHARGE: <u>TRUCK</u>	<u>7.00"</u>	<u>17.0#</u>	<u>SURFACE</u>	<u>675'</u>
	SERVICE CHARGE:	<u>4.50"</u>	<u>9.5#</u>	<u>SURFACE</u>	<u>3540'</u>
	Mileage Logging unit <u>90</u> @ <u>4.00</u> per mile				
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4650 PERFORATE w/ 3 1/8 HP slick Gun
Depth 3493' th chg
Oper. 166 SHOTS

Service 4645 Gun Barrel chg 45'
Service 4592 PRESSURE CONTROL:
Depth PACK OFF HEAD / FLOW TEE
Oper. _____

Service _____
Depth _____
Oper. _____

Service _____
Depth _____
Oper. _____

Service _____
Depth _____
Oper. _____

Service _____
Depth _____
Oper. _____

Service _____
Depth _____
Oper. _____

Fluid oil/water Level (surf) 1100'
Competition measurements are from (check One):
KB _____ GL _____ Prev. Logs X
CWS TD 3494' Driller TD 3540'
Plug model _____ Size _____ Depth _____
Packer _____ Size _____ Depth _____

PERFORATIONS			
Intervals	SPF	Total #	
<u>3448-3452 (4')</u>	<u>4</u>	<u>16</u>	
<u>3490-3493 (3')</u>	<u>4</u>	<u>13</u>	
<u>3480-3490 (10')</u>	<u>4</u>	<u>40</u>	
<u>3470-3480 (10')</u>	<u>4</u>	<u>40</u>	
<u>3452-3466 (14')</u>	<u>4</u>	<u>57</u>	

TOTAL PERFORATIONS: 166 TITAN 196m
"PROSPECTOR"
AFE #: _____
API # 25-073-21830
Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

SUBTOTAL _____
DISCOUNT < _____
SUBTOTAL: _____

MATERIALS

4518 Enviro, HEALTH SAFETY chg
FIELD TOTAL:

[Signature]
Int. Competition Costs
for Now - Jody Fields 34-1

Sub total _____
Other _____
TOTAL CHARGES _____
Sales Tax _____
TOTAL CHARGES _____

Witnessed by: JOSEPH MONTALBAN
Competition WS [Signature]
KH _____ (Signature)
6-6-11

Original - Please pay from this invoice - Due 30 days from above date.

RECEIVED
JUN - 8 2011
MONTANA BOARD OF OIL & GAS CONS. BILLINGS

CE
6-6-11
rc

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

RECEIVED

SEP 06 2011

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE
City CUT BANK	State MT	Zip Code 59427
Telephone 406-873-2235	Fax 406-873-2835	
Location of well (1/4-1/4 section and footage measurements): N1/4SW-SECTION 34-T29N-R6W (2310' FSL - 990' FWL) <i>N1/4SW</i>		Well Number: 34-2
API Number: 25 073 21838 State County Well		Unit Agreement Name:
Well Type (oil, gas, injection, other): INJECTION		Field Name or Wildcat: LONEMAN COULEE
		Township, Range, and Section: SECTION 34-T29N-R6W
		County: PONDERA

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>	CONVERT TO INJECTION WELL	<input checked="" type="checkbox"/>

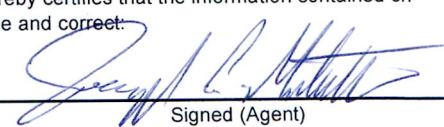
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Well hooked up and commenced injection operations on January 21, 2011.

BOARD USE ONLY	
Approved	<u>SEP 06 2011</u> Date
Original Signed By George Hudak, UIC Director	
_____ Name	_____ Title

The undersigned hereby certifies that the information contained on this application is true and correct:

9/1/2011 
Date Signed (Agent)

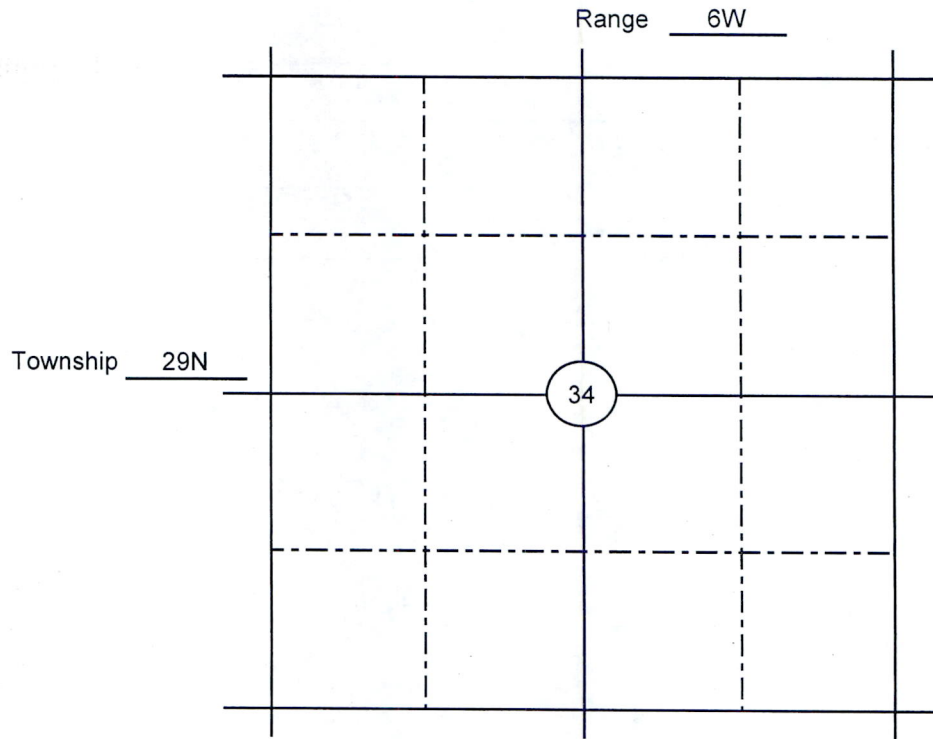
Joseph P. Montalban, V.P. of Operations
Print Name and Title

Telephone: (406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

Privileged and Confidential

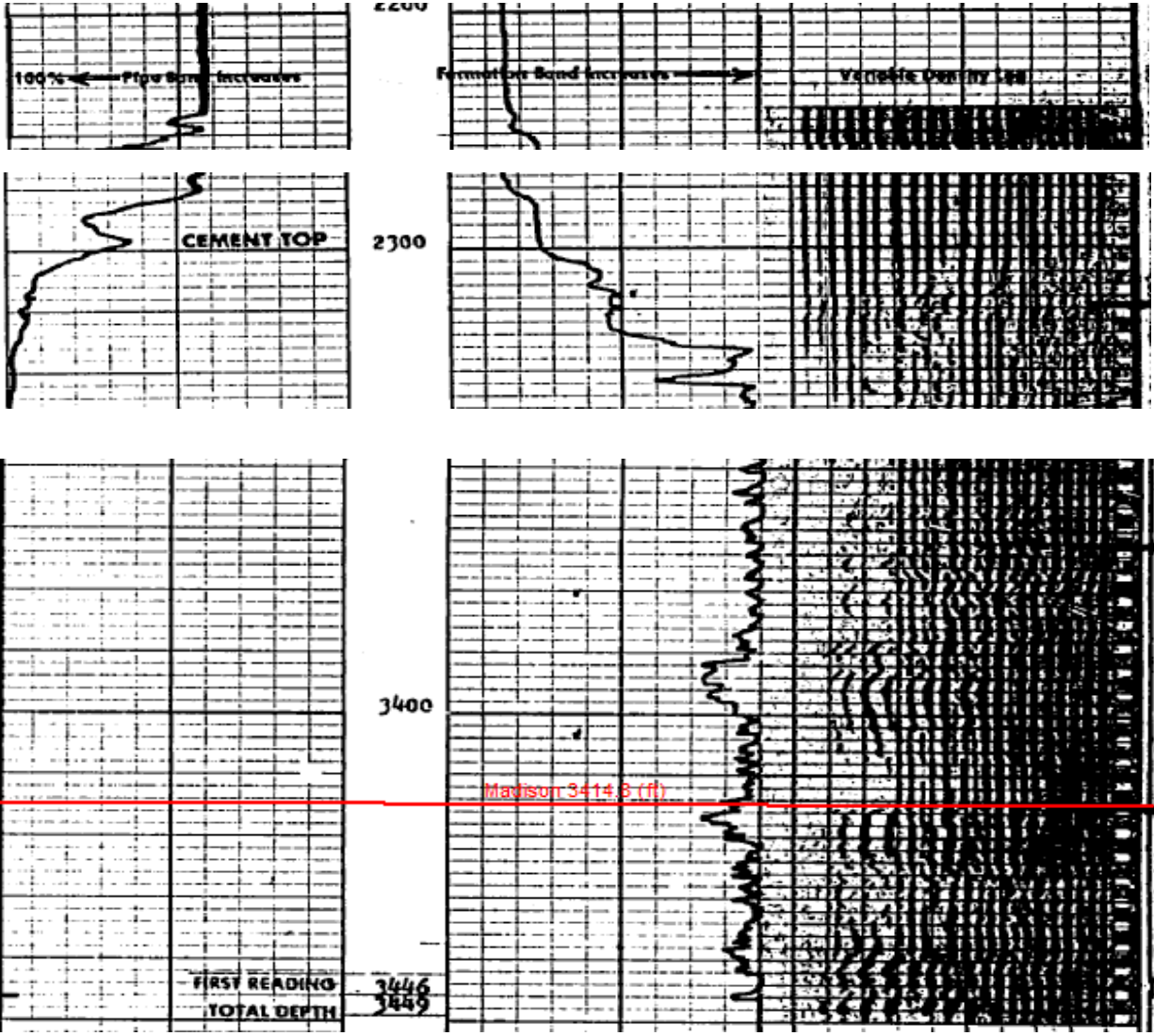
EXHIBIT B

Well Records for Jody Field 14-34 and Jody Field 4-1A

PRAIRIE

Seismogram Cement Bond Log

FILE NO.	COMPANY	OXY PETROLEUM, INC.	
WELL	#1-34 FIELD	APR 28 1982	
FIELD	Wildcat	GROGHER SPRINGS	
COUNTY	PONDERA	STATE MONTANA	
LOCATION:	1700 FSL 1300 FV L	OTHER SERVICES	
	SEC 34 TWP 29N R06E 6W	CAMA RAY PERFORATE.	
MEASUREMENT DATE	APRIL 28, 1982	C.L.	ELEV. 4033
LOG MEASURED FROM	WELVE	FT. ABOVE PERM DATUM	
DRILLING MEASURED FROM	K.B.	ELEV. K.B. 4033	
DATE	APRIL 28, 1982	R.P.I. #073-21609	Q.L.
RUN NO.	710	SHOT	No. of
TYPE LOG	CEMENT BOND/VDL	DENSITY	SHOTS
DEPTH - DRILLER	3185		
DEPTH - LOGGER	3109		
LOGGED INTER.	3106		
TOP LOGGED INTER.	2160		
FLUID IN HOLE	WATER		
LEVEL	300		
TRUCK NO.	BYE		
OPER. RIG TIME	1 1/2 HOURS		
RECORDED BY	BROWN		
WITNESSED BY	PAYNE		



LOCATE WELL CORRECTLY

		34	
		o	

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease FIELD Well No. 14-34

Address PO BOX 488 - CUT BANK MT 59427 Field (or Area) WILDCAT

The well is located 990' ft. from (S) line and 1650' ft. from (W) line of Sec. 34

Sec. 34; T. 29N; R. 6W; County PONDERA; Elevation 4049' GL
(D.F., R.B. or G.L.)

Commenced drilling August 27, 2008, ~~1998~~; Completed August 30, 2008, ~~1998~~

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)

Signed *Patrick M. Montalban*
PATRICK M. MONTALBAN

API# 25-073-21740

Title PRESIDENT & CEO

Date SEPTEMBER 14, 2009

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From 3403 to 3415 - O & W From _____ to _____
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	161' KB	0	161'	50 Sacks	Class G Cement 3% CaCl
4-1/2"	9.5#/ft	API	ST&C	3405' KB	161'	3405'	50 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7#/ft	J55	ST&C	108 jts	None

COMPLETION RECORD

Rotary tools were used from 0 to 3,415'

Cable tools were used from _____ to _____

Total depth 3,415 ft.; Plugged back to _____ T.D.; Open hole from 3405 to 3,415'

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
		None			None	

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Madison/Sun River (pool) formation.

I.P. 5 barrels of oil per 24 hours (pumping or flowing)

5 Mcf of gas per 24 hours, or 5 barrels of water per 24 hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
		NONE						

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
GAMMA RAY CCL LOG		

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

Tops based on Kelly Busing Elevation 4054' KB:

Blackleaf	1764	+2290
Blackleaf Bentonite	1802	+2252
1st Bow Island	1862	+2192
2nd Bow Island	2011	+2043
3rd Bow Island	2119	+1935
4th Bow Island "A"	2354	+1700
4th Bow Island "B"	2398	+1656
Dakota	2521	+1533
Kootenai	2564	+1490
Sunburst Horizon	3079	+ 975
Morrison	3116	+ 938
Swift	3164	+ 890
Swift Shale	3237	+ 817
Rierdon	3291	+ 763
Sawtooth	3371	+ 683
Madison	3402	+ 652
Total Depth	3415	+ 639

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 14-34
SESW Section 34-T29N-R6W
(990' FSL – 1650'FWL)
Glacier County, Montana
API No. 25-073-21740

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: August 27, 2008
Completion Date: August 30, 2008
Status: Madison Sun River Dolomite "Wildcat Oil Well Discovery"
Elevation: 4049' GR. 4054' KB.
Total Depth: 3415' Driller
Casing: Ran 4 joints 7", 17#/ft, lrd, 8rd, ST&C, Rge 3 (164.0') set @ 161.0 KB cemented with 50sx Class G cement, 3% Calcium Chloride
Ran 83 joints 4 1/2", 9.5#/ft, 8rd, ST&C, Rge 3 (3412') set @ 3405' KB cemented with 50 sx Class G
Contractor: Sundance Exploration LLC Rig No.5
Type Rig: Ingersoll- Rand (Tophead Drive)
Mud Pump: Oilwell 214P (6" x 14")
Air Compressor: Ingersoll- Rand (1250mmcf 350psi)
Air Program: Surface to 3415'
Mud Program: None
Hole Size: 8 3/4" (0-165') 6 1/4" (165' - 3415')
Size Drill Pipe: 4 1/2" O.D. x 4" I.D. (16.60 #/ft.)
Size Drill Collars: 4 3/4" O.D. x 2 1/8" I.D. (121')
No. Drill Collars: 4 = 121'
Sample Intervals: None
Sample Quality: None
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 3 7/8" hole with air mist from surface to 3415'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

No Logs Run.

Mud Summary

None

Bit Record

No.	Size	Make	Type	Interval	Footage	Hours	Jet Size	Serial No.
1	6 1/4"	HTC	STX-20	0 - 77	77	3.00	open	ER8776
2	3 7/8"	HTC	ER-20	77-3415	3338	18.75	open	none

Daily Activity Summary (Calendar Days)

- August 27,2008 Moved in and Rigged up Sundance Exploration LLC Rig No. 2. Spud 6 ¼" hole at 11:45A.M. Drilled 6 ¼" hole with air mist from 0' to 77' inside 7" surface casing. Drilled 3 7/8" hole with air mist inside the 4 ½" casing. Lower camera inside 7" casing. Trip tubing into the hole and place 2 gallons of 28% Hel inside 4 ½" casing. Lower camera inside 7" casing and concluded 4 ½" casing to be clean.
- August 28,2008 T.D. 77'. Load 4 ½" casing. Unload and strap 4 ½" casing. unload 2 3/8" tubing. Rig up 7" x 4 ½" wellhead. Trip In 4 ½" casing and sting into casing. Pulled 5000#/s on 4 ½" casing and set in slips. Nipple up diverter head. Drilled 3 7/8" hole with air mist from 77' to 2400'.
- August 29,2008 Drilled 3 7/8" hole with air mist from 2400' to 3415'. Total Depth 3415' by operator. Repair rig.
- August 30,2008 T.D. 3415. Start and warm rig. Blow well down and recovered highly oil cut water. Set tubing in slips. Rigged down. Report Ends.



GAMMA RAY - *John*
CCL LOG *Field*

Company Altamont Oil & Gas, Inc.
Well Altamont/Jody Field #14-34
Field Wildcat
County Pondera
State Montana

Company ALTAMONT OIL & GAS, INC.
Well ALTAMONT/JODY FIELD #14-34
Field WILDCAT
County PONDERA
State MONTANA

Location

SEC. 34 TWP. 28N RGE. 6W
990' FSL & 1650' FWL
34N

Other Services

NONE

Permanent Datum GROUND LEVEL Elevation 4033'
Log Measured From FIVE FEET ABOVE PERM. DATUM
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4054'
G.L. 4049'

Date 06-OCTOBER-2008

Perforated Intervals

Run Number	Log Type	Gun Type	Size	From	To
	GAMMA RAY/CCL				
	Depth - Driller	From			@
	Depth - Logger	From			@
	Bottom Interval	From			@
	Top Interval	From			@
	Fluid in Hole	From			@
	Level	From			@
	Wellhead PSI	From			@
	Equipment No.	From			@
	Witnessed By	From			@
	Recorded By	From			@
	Invoice No.	From			@
	Bitsize #1	7.00"	Weight	17.0#	From
	Bitsize #2	6.250"		9.5#	Surface
	Cement Time	3.875"			Surface
	API Number	25-073-21740			To
	AFE Number				To

Casing Record

Tubing Record

Other Services

Interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

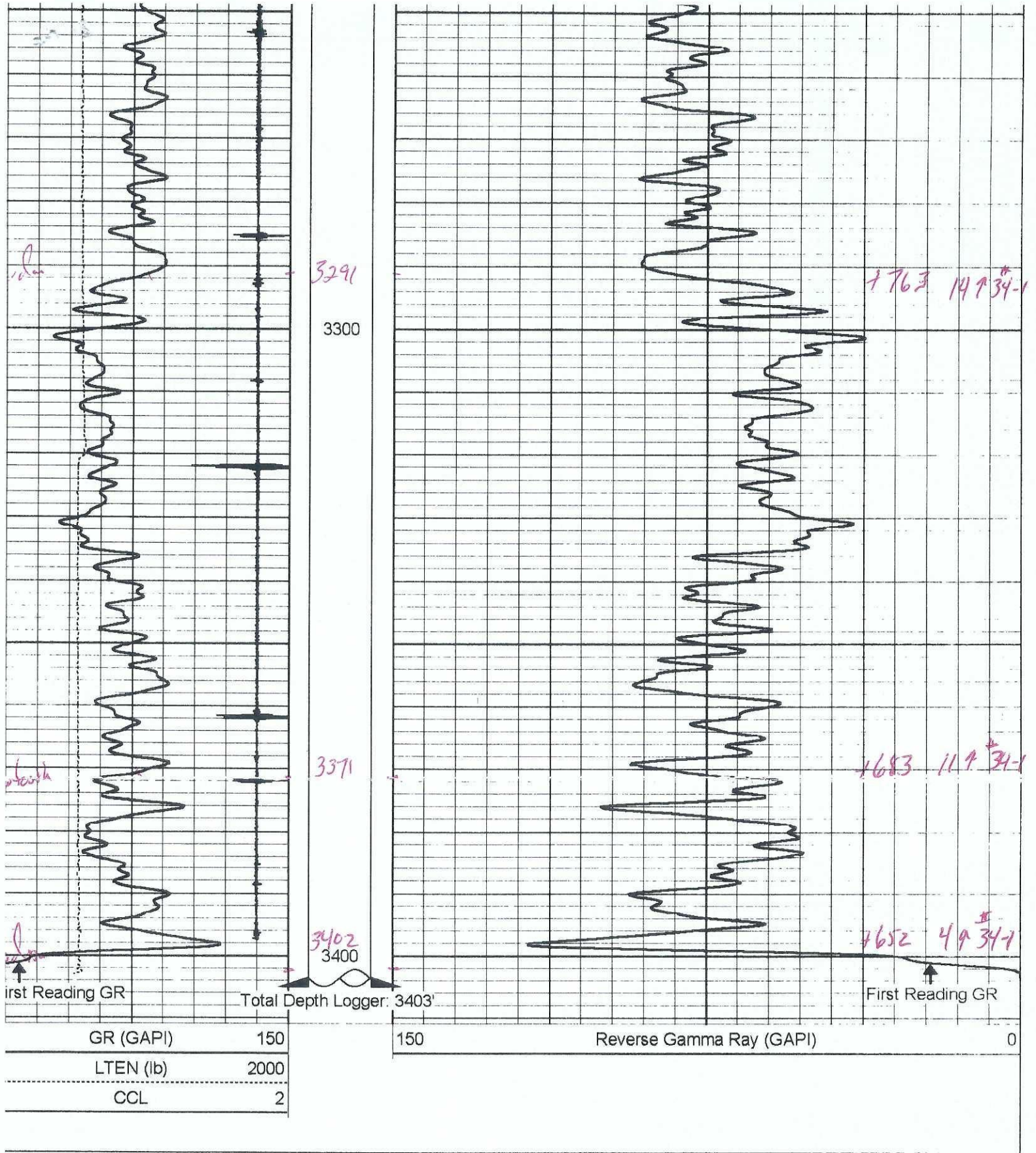
Measurement Type:

Related to: Logged From Kelly Bushing Measurement.

Remarks:

THANK YOU FOR CHOOSING COMPETITION WIRELINE SERVICES.

YOUR CREW TODAY HAS BEEN: STARBUCK SEIFERT & AARON BROWN



Repeat Section

Database File: 15637gr.db
 Dataset Pathname: pass1

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 4-1A
NENENE Section 4-T28N-R6W
(330' FNL – 380' FEL)
Glacier County, Montana
API No. 25-073-21842

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: May 18, 2009
Completion Date: May 23, 2009
Status: Madison Sun River Dolomite "Wildcat
Oil Well Discovery"
Elevation: 4070' GR. 4075' KB.
Total Depth: 3442' Driller 3462' Driller (Completion)
Casing: Ran 17 joints 7", 17#/ft, lrd, 8rd, ST&C, Rge 3
(729.17) set @ 726.67 KB cemented with 160sx
Class G cement, 3% Calcium Chloride, 3% Calcium
chloride, 1/2# floccelle.
Ran 85 joints 4 1/2", 10.5#/ft, 8rd, ST&C, Rge 3
(3442.91') set @ 3440.91' KB cemented with
60 sx Class G, 2% CaCO₃
Contractor: GaSco Drilling LLC Rig No.7
Type Rig: Atlas Copco RD20 (Tophead Drive)
Mud Pump: Gardner Denver FXK (6" x 14")
Air Compressor: Atlas Copco (1250mmcf 350psi)
Air Program: Surface to 3442'
Mud Program: 3442
Hole Size: 8 3/4" (0-730') 6 1/4" (730' - 3442')
Size Drill Pipe: 3 1/2" O.D. x 2 1/2" I.D. (13.30 #/ft.)
Size Drill Collars: 4 3/4" O.D. x 2 1/8" I.D. (353') Weight Pipe =
4 1/2" O.D. x 2" I.D. (16.60 #/ft.) (120')
No. Drill Collars: 13 = 354'
Sample Intervals: 30' (1950' - 2310') (2560' - 2980')
10' (1700' - 1950') (2310' - 2560') (2980' - 3442')
Sample Quality: Good
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 8 3/4" hole with air (mist) from 37' to 730'. Did not show strong flow of water through the drilling of the surface hole. Drilled 6 1/4" hole with air from 730' to 3442'. No gas was encountered. Total depth 3442' by driller with air. Converted to mud drilling program at 3442'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

No Logs were run.

Mud Summary

Max Gel -17sx

Plat Pac UL - 8 - 5gallons

<u>Bit Record</u>								
<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Interval</u>	<u>Footage</u>	<u>Hours</u>	<u>Jet Size</u>	<u>Serial No.</u>
1	8 3/4"	STC	CH-14	0 - 730	730	18.00	open	225925
2	6 1/4"	HTC	STX-20	730-3442	2712	28.00	open	5123271
3	3 7/8"	Varel	DW531	3442-3462	20	1.0	reg	1016538

Vertical Surveys

<u>Depth</u>	<u>Degrees</u>
251'	1/4*
730'	1/4*
1305'	1/2*
1970'	1/2*
2540'	1/2*
3272'	1/2*

Sample Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996
<u>Jurassic</u>		
Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659
<u>Mississippian</u>		
Madison(Sun River Dolomite)	---	---
<u>Total Depth:</u>	3542	+633

Daily Activity Summary (Calendar Days)

- May 18,2009 Moved in and Rigged up Gasco Drilling LLC Rig No. 7
Spud 8 3/4" hole at 11:00A.M. Drilled 8 3/4" surface hole from 0' to 37'. Drive 9 5/8" casing set @ 16.00' set @ 17'.
Repair upper radiator hose. Nipple up deflector head.
Drilled 8 3/4" surface hole with air mist from 37' to 446'.
- May 19,2009 Drilled 8 3/4" surface hole with air mist from 446 to 730'.
Total Depth 730' by Driller. Condition hole for surface casing. Ran 17 joints 7", 17#/ft, Ltd, 8rd, ST&C, (729.79) set @ 728.79' KB cemented with 160 sacks Class G cement + 3% Calcium Chloride, 1/2#/sack focelle. Good returns to surface. Plug down at 2:00 P.M. W.O.C. Nipple up BOP.
- May 20,2009 Trip in hole with 6 1/4" bit. Clean and dry hole. Drilled cement plug and dry hole. Ran survey. Dry hole. Drilled out @ 2:30A.M..
Drilled 6 1/4" hole with air from 730' to 2881'.
- May 21,2009 Drilled 6 1/4" hole with air from 2881' to 3442'.
Total depth 3442' by driller.
Total depth by driller with air. Did not encounter any moisture.
Converted to drilling mud @ 7:00A.M.
Condition hole for 4 1/2" production casing. Short trip. Condition hole for 4 1/2" production casing. Trip out of hole for 4 1/2" Production casing. Rig up to run production casing.
- May 22, 2009 Ran 85 joints 4 1/2", 9.5#/ft, API., J55, 8rd, ST&C, Rge 3 (3442.91') set @ 3440.91'. Lower viscosity to 40. Cemented Well with 60 sacks Class G cement with 2% calcium chloride. Plug down @ 1:30A.M.. Set 4 1/2" casing in the Slips. Report Ends.
- May 23, 2009 T.D. Nipple up BOP. Pick up 2 3/8" tubing. Tagged plug at 3418'. Mist up to drill out 4 1/2" plug. Drilled 3 7/8" hole with air mist from 3442' to 3460'. Test well, no show of oil or water. Drilled 3 7/8" Hole with air mist from 3460' to 3462'. Shut in for 1 1/2 hr. No show, no oil, no water, no odor. Note Driller Total Depth 3468'. Last 5' run in with no rotation or weight. Rig down.

Lithology

Sample descriptions begin at 1700', in the Cretaceous Colorado. Sample descriptions are not corrected for drill time lag. Formation tops were determined from electric logs. Samples were examined and described wet except for the samples in the Mississippian Madison Sun River Dolomite that were described dry.

SAMPLES CAUGHT IN 10' INTERVAL:

- 1700 – 1710 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, gritty in parts.
- 1710 – 1720 same as above.
- 1720 – 1730 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured to gritty textured, sandy in parts.
- 1730 – 1740 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous. Bentonite, tan, soft, lumpy.
- 1740 – 1750 same as above. Bentonite, tan, white, soft, lumpy.
- 1750 – 1760 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous.
- 1760 – 1770 same as above.
- 1770 – 1780 Shale, grey, chunky, firm to hard, dense, noncalcareous, earthy textured, micromicaceous.
- 1786 – Sample Top - Blackleaf
- 1780 – 1790 Shale, dk greyish black, chunky, blocky, firm to hard, dense, very calcareous,

many tan specks.

1790 – 1800 Shale as above.

1800 – 1810 Shale, dk grey, chunky, blocky, firm to hard, dense, very calcareous, earthy textured, many tan specks.

1810 – 1820 same as above.

1825 – Sample Top – Blackleaf Bentonite

1820 – 1830 Shale, dk grey, chunky firm, dense, calcareous, earthy textured.

1830 – Sample Top – Blackleaf Sandstone

1830 – 1840 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy, micromicaceous.

1840 – 1850 Shale as above.

1850 – 1860 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone, grey, blocky, hard, dense, noncalcareous, tight.

1860 – 1870 Sandstone, grey, very fine to fine grained, subrounded to subangular, Moderately sorted quartzose, many clear and grey grains,

1870 – 1880 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, many unconsolidated grains in sample pan. Siltstone, grey, blocky, hard, dense, noncalcaeous, tight.

1884 – Sample Top - 1st Bow Island

1880 – 1890 Many unconsolidated grains in sample pan. Sandstone, dk grey, very fine grained, rounded, well sorted quartzose. Bentonite, tan, soft, lumpy.

1890 – 1900 same as above.

1900 – 1910 Siltsone, grey, blocky, hard, dense, noncalcareous, tight

1910 – 1920 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone as above. Unconsolidated grains in sample pan.

1920 – 1930 Bentonite, tan, white, soft, waxy, lumpy, micromicaceous. Shale, dk grey
Chunky, hard, dense, noncalcareous, earthy textured.

1930 – 1940 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured.

1940 – 1950 Bentonite, tan, soft, lumpy. Many unconsolidated grains in sample pan.

Begin 30' Samples

1950 – 1980 Sandstone, grey, very fine grained, rounded, well sorted quartzose, many clear and grey grains, trace glauconite grains.

1980 – 2010 Bentonite, tan, soft, lumpy. Shale, greenish grey, chunky, firm, dense, noncalcareous, gritty textured. Siltstone, greenish grey, blocky, hard, dense noncalcareous, tight.

2026 – Sample Top – 2nd Bow Island

2010 – 2040 Sandstone, grey, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, few black chert grains, few glauconite grains.

2040 – 2070 Shale, chocolate brown, chunky, firm to hard, dense, waxy textured, trace orange zeolites. Bentonite, tan, soft, lumpy

2070 – 2100 Shale, lt green, chunky, firm, dense, noncalcareous, waxy textured. Much Bentonite, tan, soft, lumpy.

2100 – 2130 Sandstone, greenish grey, very fine to medium grained, coarse grained in parts, subrounded to angular, poorly sorted quartzose, many clear grains, trace black chert grains, trace glauconite grains.

2134 – Sample Top – 3rd Bow Island

- 2130 – 2160 Sandstone, brownish white, very fine grained, rounded, well sorted quartzose, many clear and grey grains.
- 2160 – 2190 Shale, black, chunky, firm, dense, noncalcareous, waxy textured.
- 2190 – 2220 Bentonite, tan, soft, lumpy, micromicaeous, Shale, lt green, chunky, Soft, dense, noncalcareous, waxy textured.
- 2220 – 2250 Shale, green, grey, chunky, soft to firm, dense, noncalcareous, earthy to waxy many orange zeolites. Textured. Bentonite, tan, soft, lumpy.
- 2250 – 2280 Bentonite, tan, soft, lumpy. Sandstone, brown, very fine grained, rounded, well sorted quartzose.
- 2280 – 2310 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy to gritty Textured. Bentonite, tan, soft, lumpy.

Resume 10' Samples

- 2310 – 2320 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2320 – 2330 Bentonite, tan, soft, lumpy. Shale as above.
- 2330 – 2340 Sandstone, dk grey, very fine grained, well sorted, rounded quartzose many unconsolidated grains in sample pan, many clear and grey grains, trace glauconite grains. Bentonite, tan soft, lumpy. Shale, dk grey, chunky firm, dense noncalcareous, gritty textured.
- 2340 – 2350 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 2350 – 2360 same as above.

2367 – Sample Top – 4th Bow Island “A” Sandstone

- 2360 – 2370 Sandstone, grey, very fine to fine, rounded to subrounded, moderately sorted quartzose, noncalcareous, many clear grains, few black chert grains, few glauconite grains.

2370 – 2380 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear grains, many grey grain, few glauconite grains.

2380 – 2390 same as above.

2390 – 2400 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
bentonite, tan, soft, lumpy. Many unconsolidated grains in sample
pan.

2400 – 2410 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
sandy in parts. Bentonite, tan, soft, lumpy.

2413 – Sample Top – 4th Bow Island “B” Sandstone

2410 – 2420 Sandstone, grey, very fine grained, rounded, well sorted
quartzose, many clear and grey grains, few glauconite grains.

2420 – 2430 same as above becoming slightly coarser grained, very bentonitic.

2430 – 2440 Sandstone, dk grey, very fine grained, rounded to subrounded, well sorted
quartzose, many grey grains, few glauconite grains, bentonitic.

2440 – 2450 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty to sandy
textured. Many unconsolidated grains in sample pan.

2450 – 2460 Shale, grey, chunky, soft to firm, dense, noncalcareous, gritty textured
unconsolidated grains in sample pan.

2460 – 2470 same as above. Bentonite, tan, soft, lumpy.

2470 – 2480 Shale, dk grey, grey, chunky, firm, dense, noncalcareous, earthy textured,
Bentonitic.

2480 – 2490 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy textured,
Micromicaceous.

- 2490 – 2500 same as above. Many unconsolidated grains in sample pan.
- 2500 – 2510 Shale, grey, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2510 – 2520 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear and grey grains, few glauconite grain, bentonitic.
- 2520 – 2530 Many unconsolidated grains in sample pan. Shale, grey, chunky,
firm, dense, noncalcareous, gritty textured. Sandstone as above.

2539 – Sample Top - Dakota

- 2530 – 2540 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured,
micromicaceous. Bentonite, tan, soft, lumpy.
- 2540 – 2550 Sandstone, lt grey, very fine grained, rounded, well sorted quartzose
many clear grains few grey grains.
- 2550 – 2560 Sandstone, clear, very fine grained, rounded to subangular, well sorted
Quartzose, many clear grains, few grey chert grains, bentonitic.

Resume 30' Samples

2582 – Sample Top - Kootenai

- 2560 – 2590 Sandstone, brown, very fine to medium grained, rounded to subangular
Moderately sorted quartzose, many unconsolidated
grains. Bentonite, tan, soft.
- 2590 – 2620 Shale, grey, chunky, firm, dense, noncalcareous, earthy to
gritty textured.

- 2620 – 2650 Sandstone, grey, very fine to fine grained, rounded to subrounded, well to moderately sorted quartzose, many clear grains, many grey shale inclusions many black chert grains.
- 2650 – 2680 Sandstone, grayish white, very fine to fine grained, rounded to subangular, moderately sorted quartzose, many clear grains, many grey and black grains.
- 2680 – 2710 Shale, brick red, green, lt green, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured.
- 2710 – 2740 Sandstone, green, lt green, very fine grained, rounded, well sorted quartzose many unconsolidated grains, many clear grains, orange shale as above. Shale green, chunky, firm, dense, noncalcareous, gritty textured.
- 2740 – 2770 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured. Bentonite, tan, soft, lumpy.
- 2770 – 2800 Sandstone, green, lt green, very fine to fine, rounded to subrounded, well sorted quartzose, many clear and frosted grains, many glauconite grains.
- 2800 – 2830 Shale, green, chunky, firm, dense, noncalcareous, earthy textured, smooth. shale, grey, chunky, firm, dense, noncalcareous, earthy textured.
- 2830 – 2860 Shale, brick red, maroon, green, grey, chunky, firm, dense, noncalcareous, gritty textured. Bentonite, white, soft waxy.
- 2860 – 2890 Shale, multicolored, green, brick red, grey, reddish brown, maroon, chunky, soft to firm, dense, noncalcareous, earthy textured.
- 2890 – 2920 Sandstone, grey, very fine to fine grained, rounded to subangular, moderately Sorted quartzose, many clear grains, many grey grains, many amber grains, Bentonitic.

- 2920 – 2950 Sandstone, dk brown, very fine grained, rounded, well sorted quartzose, Bentonitic, tan, soft, lumpy.
- 2950 – 2980 Shale, brick red, chunky, soft to firm, dense, noncalcareous, gritty textured. turns sample bag bick red.

Begin 10' Samples

- 2980 – 2990 Shale, brown, brick red, chunky, firm, dense, noncalcareous, earthy to gritty textured.
- 2990 – 3000 Shale, green, chunky, soft to firm, dense, noncalcareous, gritty textured, sandy in parts. Bentonite, tan, soft, lumpy.
- 3000 – 3010 Shale, grey, chunky, platy, soft to firm, dense, noncalcareous, gritty textured.
- 3010 – 3020 Shale, multicolored, green, grey, brick red, brown, reddish brown, maroon, chunky, firm, dense, noncalcareous, earthy textured, mottled in parts.
- 3020 – 3030 Sandstone, grey, very fine grained, rounded to subrounded, well sorted quartzose, many clear grains, many black shale inclusions, trace green grains, trace amber grains.
- 3030 – 3040 Sandstone, grayish white, very fine grained, rounded, well sorted quartzose, many clear grains, trace black and grey shale inclusions, trace amber grains.
- 3040 – 3050 Shale, multicolored, brick red, green, grey, brown, maroon, chunky, soft to firm, dense, mottled, noncalcareous, earthy textured, mottled.
- 3050 – 3060 Shale, brick red, grey, green, chunky, firm, dense, noncalcareous, earthy textured, smooth.
- 3060 – 3070 Shale, lt. grey, chunky, blocky, firm, dense, noncalcareous, waxy textured.

3079 – Sample Top - Sunburst

- 3070 – 3080 Shale, mustard yellow, grey, chunky, firm, dense, noncalcareous, Earthy to gritty textured. Many unconsolidated grains in sample pan, very fine grained.
- 3080 – 3090 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, trace amber grains, few grey chert grains.
- 3090 – 3100 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, few grey chert grains, trace amber grains, bentonitic.
- 3100 – 3110 Shale, green, lt green, chunky, firm, dense, noncalcareous, earthy textured Smooth. Mostly Bentonite, tan, cream, soft, lumpy.
- 3110 – 3120 Shale, dk grey, chunky, blocky, firm, dense, noncalcareous, waxy Textured. Bentonite, white, soft, lumpy.
- 3120 – 3130 Shale, lt. greyish, grey, chunky, firm, dense, noncalcareous, waxy textured. much Bentonite, white, soft, lumpy. Many coarse grained, angular orange grains in sample pan. Many unconsolidated grains in sample pan.

3135 – Sample Top - Morrison

- 3130 – 3140 Sandstone, white, tan, clear, very fine to fine grained, rounded to subrounded well to moderately sorted quartzose, many clear and frothy grains. few grey grains.
- 3140 – 3150 Shale, multicolored, brick red, green, lt green, maroon, grey, "baby poop yellow", chunky, soft to firm, dense, noncalcareous, earthy textured.
- 3150 – 3160 Shale, brick red, reddish brown, trace yellow above, chunky, soft to firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy.

- 3160 – 3170 Shale, maroon, greenish grey, grey, chunky, soft to firm, dense, Noncalcareous, earthy to waxy textured. Bentonite, white, soft.
- 3170 – 3180 Shale, baby poop yellow, chunky, soft, noncalcareous, earthy textured. Shale, grey, lt grey, chunky, soft firm, dense, noncalcareous, earthy textured.
- 3180 – 3190 Siltstone, brown, chunky, blocky, firm to hard, dense, very calcareous, tight, no shows. Shale, grey, chunky, soft to firm, dense, calcareous, earthy to gritty textured.
- 3190 – 3200 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured, sandy in parts. Limestone, tan, buff, sublithographic, dense, tight, very calcareous.
- 3208 – E Log Top - Swift
- 3200 - 3210 Sandstone, brown, very fine to fine grained, rounded to subrounded, well sorted, quartzose, many clear and dark grains.
- 3210 – 3220 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, gritty Textured. Many very fine grains in sample pan.
- 3220 – 3230 Sandstone, brown, very fine to fine grained, rounded to subangular, well to Moderately sorted quartzose, many clear grains and few grey grains.
- 3230 – 3240 Sandstone as above. Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 3240 – 3250 Sandstone, brown, very fine to fine grained, rounded, well sorted quartzose many clear grains. Shale dk grey, chunky, soft to firm, dense, noncalcareous gritty textured.

- 3250 – 3260 same as above.
- 3260 – 3270 Sandstone,brown,very fine grained,rounded,well sorted quartzose many clear and grey grains.
- 3270 – 3280 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3280 – 3290 Shale,grey,chunky,platy,firm,dense,noncalcareous,earthy to gritty textured.
- 3290 – 3300 Shale,grey,chunky,platy,firm,dense,noncalcareous,earthy textured.
- 3300 – 3310 Shale,grey,lt grey,chunky,platy,firm,dense,noncalcareous,earthy Textured.
- 3310 – 3320 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3320 – 3330 Shale as above. Shale,tan,light brown,blocky,firm,dense,very calcareous, Slightly gritty textured.
- 3331 – Sample Top - Rierdon(Ellis Formation)
- 3330 – 3340 Marlstone,dove grey,chunky,blocky,firm to hard,dense,very calcareous earthy textured,micropyritic. Marlstone,tan,soft,lumpy,very calcareous. Marlstone,white,soft,lumpy,very calcareous.
- 3340 – 3350 same as above.
- 3350 – 3360 Marlstone,dove grey,chunky,soft to firm,dense,very calcareous,earthy textured,micropyritic.
- 3360 – 3370 same as above.
- 3370 – 3380 Marlstone,dove grey,chunky,firm to hard,dense,very calcareous, earthy textured,micropyritic. Marlstone,tan,soft,lumpy.
- 3380 – 3390 Marlstone as above.

3390 - 3400 Marlstone,dove grey,greenish grey,chunky,firm to hard,dense,very calcareous,micropyritic.earthy textured. Marlstone,white,soft,lumpy, very calcareous.

3400 – 3410 Marlstone,dove grey,greenish grey,chunky,firm to hard,dense,very calcareous,earthy textured,micropyritic.

3416 – Sample Top - Sawtooth

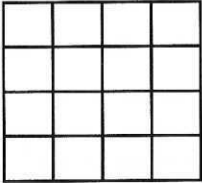
3410 – 3420 Siltstone,lt greenish grey,chunky,firm to hard,dense,very calcareous, gritty to sandy textured,micropyitic,sandy in parts.

3420 – 3430 Siltstone,lt grey,chunky,blocky,firm to hard,dense,very calcareous, micropyritic. Much Pyrite.

3430 – 3440 Siltstone,lt grey,greenish grey,chunky,blocky,firm to hard,dense,very calcareous sandy textured,micropyritic. Much pyrite.

3440 – 3442 Sandstone,tan,cream,very fine grained,rounded,well sorted quartzose,calcareous,many unconsolidated grains in sample pan,no shows.

3442 - Total Depth by Driller



TO
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

COMPLETION REPORT

API # 25 - 073 - 21872

Company ALTAMONT OIL & GAS, INC Lease FIELD Well No. 4-1A
Address PO BOX 488 Field or Area WILDCAT
CUT BANK, MT 59427

Surface Location: 330 ft. from N Line, 380 ft. from E Line, Sec. 4 T 28N R 6W
(N/S) (EW)

County PONDERA Elevation 4,070' GL 4,075' KB
(Surface) (KB)

Date Spud 5/19/2009 Date Completed 5/23/2009 Completed as OIL - SHUT-IN
(Oil, gas, cbm, injection, dry hole, etc.)

The information given herewith is a complete and correct record of the well as of the date of preparation.

Signed [Signature]
Title PRESIDENT & CEO Date 6/30/2010
Telephone (406) 873-9000

For Vertical Well: Total depth 3,468 ft. Plugged back to _____ ft.
For Horizontal or Directionally Drilled Well: Enter well bore and bottom hole location data on page 2 of this form.
For coal bed natural gas well: Static water level _____ ft. below reference elevation of _____ ft.

Casing and Tubing Record

Well Bore	String Type	String		Grade	Length (Feet)	From (MD, Feet)	To (MD, Feet)	Cement (Sacks)	Cement Top (MD, Feet)	Packer Set (MD, Feet)
		Size	Weight							
8-3/4"	Surface	7"	17#/ft	Ltd	17 jts	0	726.67' KB	160	726.67' KB	
6-1/4"	Production	4-1/2"	10.5#/ft	API	85 jts	726.67' KB	3440.91' KB	60	3440.91' KB	

Perforated or Open-hole Intervals

Well Bore	Open Hole/Perf'd Zone		Holes per foot	Size and Type	Open or Isolated (method of isolation)
	Top	Bottom			
4-1/2"	3,444'	3468'	Driller	Open Hole - 3-7/8"	Open
		3460'	Logger		

Acidized, Shot, Fraced, Squeezed, or Cemented

Well Bore	Interval		Treatment Type	Amount and Type of Material	Max. Rate (BBLs/Min)	Max. Pressure (PSI)
	Top	Bottom				
	3444'	3468'	Driller	500 Gal 15% HCl	3.0/min	1300#/s
		3460'	Logger			

Well is producing from Madison/Sun River Dolomite formation(s) or pool(s).
I.P. SI barrels of oil, _____ MCF of gas, and _____ barrels of water per _____ hours.

Sample Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996

Jurassic

Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659

Mississippian

Madison(Sun River Dolomite)

Total Depth:

	---	---
	3542	+633
	3462	+613

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EXHIBIT C

WatchDog® Monitoring System Specifications



WatchDog 4 *Specifications*

Requirements & Ideally the unit should be faced for optimum solar exposure (i.e. south in the northern hemisphere)
Requires at least 1 bar of cell service. Typically works where text works

Environment -40°C to 65°C (-40F to 150F), NEMA4
All exposures except for immersion

Certifications Class I Div. 2, Groups C & D, Exia
FCC PART 15 IC/ICES-003
Analog Input 1-3: Class 1 Div 1
Digital Input 1-2: Class 1 Div 2
Pulse Counter: Class 1 Div 1



Operation Sample frequency: minutely, up to 24 images per day, hourly data upload.
Minute by Minute data available (transmits hourly)
Up to 30 days without solar charge

Options Up to 2 High dynamic range cameras (640x480 images)
Up to 3 external RTDs, (1-5Vdc), and/or (4-20mA) Sensors
Up to 6 external RTDs, (1-5Vdc), and/or (4-20mA) Sensors, WatchDog4 Add-On-Board required (see Add-On-Board Documentation)

Ordering Systems include cables, end device(s), and mounting.
Installation available (Call for quote)

- Specify quantity of cameras: (0-2) c/w 3m cable
- Specify qty of RTDs, Vibration, Electric Current and or Pressure Sensors: (0-6) c/w 3m cable
- Specify range of Pressure sensors: (15, 50, 500, 1500, 5000 psi).

Typical lead time > 4 weeks.

Mounting A Frame, stand, and wall mount available

Shipping FOB Calgary, AB
Dimensions (LxWxH):
Weight: 5.4 kg (incl. battery pack)

Warranty 90 days, parts and labour

Consumables 1 field replaceable 12Ahr 6Vdc SLA battery included.

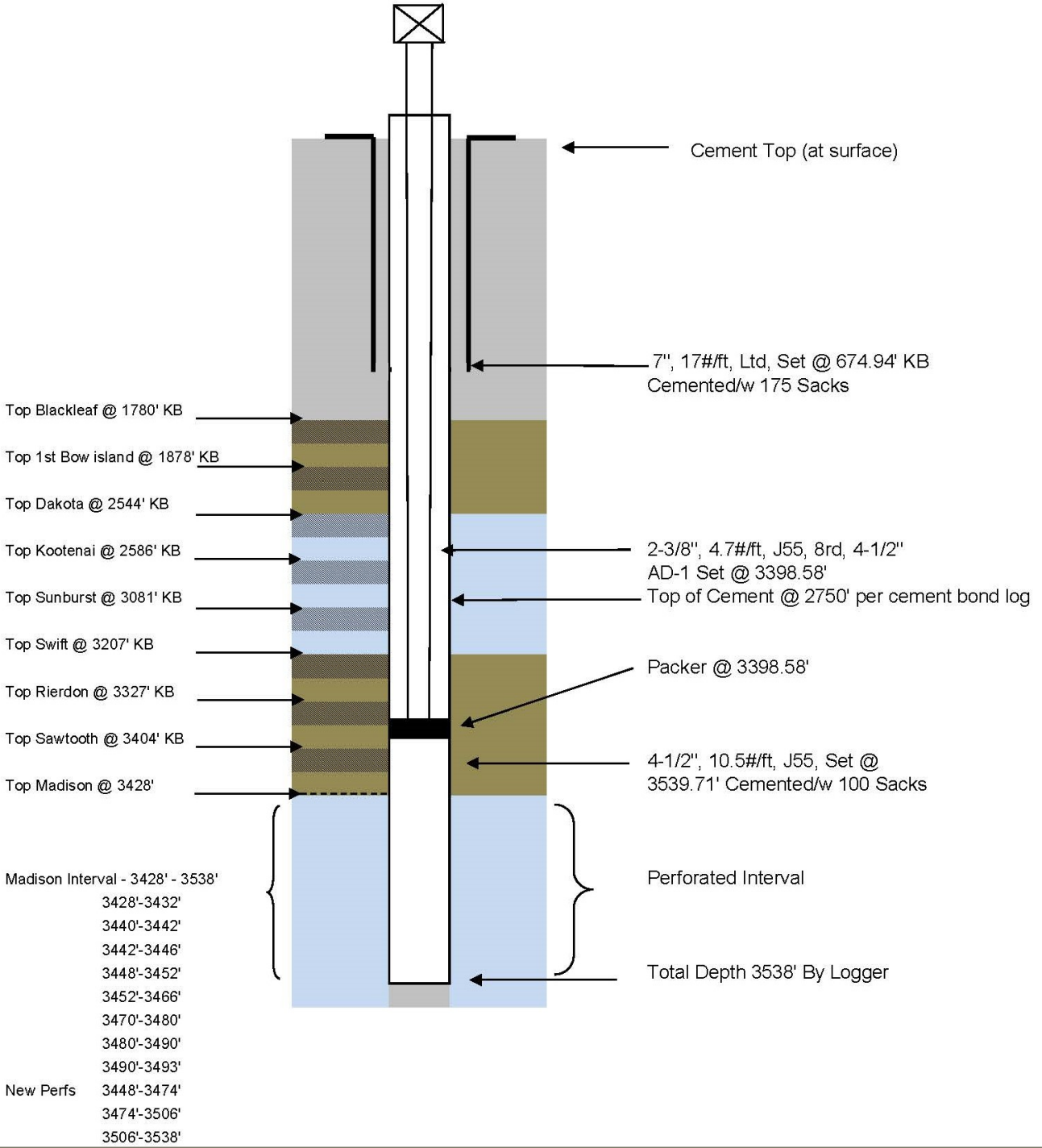
Pricing (CAD) \$1500 - \$3,500 email for quote info@afti.ca

WD4 Spec. Sheet
© Revised September 23, 2019

Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W
	(330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

**SCHEMATIC
After Workover**



USDW

Confining Zone

**WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1**

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment C
Figure 01**

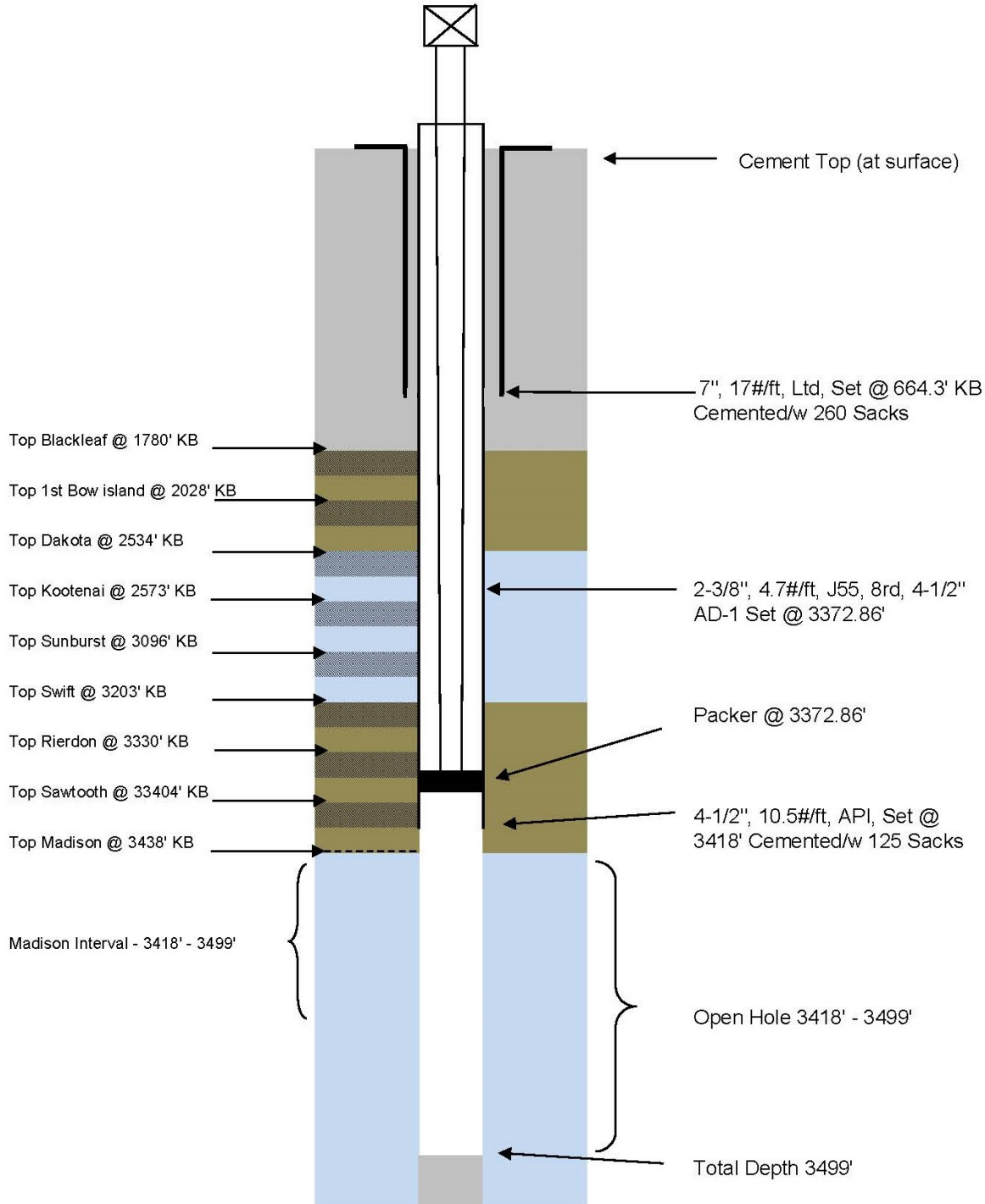
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment C
Figure 02

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment D Injection Operation and Monitoring Program (40 CFR § 144.54)

Privileged and Confidential

CONTENTS

1. Injection Process Flow, Facilities and Monitoring	2
2. Injection Well Maintenance	2
3. Loss of Mechanical Integrity During Operation	2
4. Injectate Characteristics	3

FIGURES

Figure 1. Injection Site Layout

Figure 2. Injection Operations Jody Field Wells 34-1 and 34-2

EXHIBITS

Exhibit A. WatchDog® System Specifications

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1. INJECTION PROCESS FLOW, FACILITIES AND MONITORING

Montalban Oil & Gas Operations, Inc. (Montalban) will receive industrial wastewater from Montana Renewables, a renewable fuels refinery located in Great Falls, Montana. The Class V injection wells are located on private property. The wastewater will be delivered by truck via secure access from Range View Road and offloaded to the frac tanks located at the injection site. (**Figure 1**). A transfer pump will pump the water from the frac tanks to the 300 bbl water tank located next to the injection building. The water will be sent from the injection pump through the injection lines to wells Jody Field 34-1 and Jody Field 34-2 (**Figure 2**). A pressure actuated shut-off device (Murphy switch) is located in the injection building and is set to shut-off flow from the injection pump when pressures reach within 200 to 300 psi of the Maximum Allowable Injection Pressure (MAIP) established for the wells.

Each injection well is housed in a 4' x 6' building that is insulated and heated for winter operations. The wells will be equipped with the WatchDog® virtual well-site monitoring system, which will continuously monitor injection volumes and flow rates, pressure on the tubing, and pressure on the backside of the packer and tubing casing annulus. Data will be monitored 24/7 on scheduled transmissions, however, should a threshold for pressure be crossed, the WatchDog® system will transmit immediately with a device alarm. The pressure sensors are capable of monitoring pressures ranging from normal operating pressures up to the MAIP. Specifications for the WatchDog® system are provided in Exhibit A.

The tubing casing annulus will be filled with water treated with a corrosion inhibitor, and the valve will remain closed during normal operating conditions so that the pressure will be maintained at zero (0) psi. A "tap" will be placed at a conveniently accessible location on the discharge line of the pump that leads to the injection wells for collection of representative samples of the injected fluid.

2. INJECTION WELL MAINTENANCE

The well parameters will be monitored daily to identify any trends that could indicate a loss of injectivity. In the event a well workover is required to maintain well performance, EPA will be notified and a Mechanical Integrity Test (MIT) will be conducted to demonstrate integrity of the well prior to resuming injection.

3. LOSS OF MECHANICAL INTEGRITY DURING OPERATION

Mechanical Integrity will be continuously monitored using the WatchDog® well-site remote monitoring system which will alert Montalban immediately upon well failure. In the event of a loss of mechanical integrity, the well will be promptly shut-in, EPA will be notified, and repairs will be conducted to achieve and demonstrate mechanical integrity prior to resuming injection.

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4. INJECTATE CHARACTERISTICS

The wastewater from Montana Renewables will be generated from the pretreatment of renewable feedstocks. The renewable feedstocks may include, but are not limited to, vegetable oils (such as soybean oil and canola oil), animal fats (such as beef tallow, choice white grease, and poultry fat) distiller's corn oil, and used cooking oil.

The pretreatment process technology is developed and licensed by Applied Research Associates, Inc. (ARA). The technology involves a water-based (hydrothermal) cleanup process to pretreat feedstocks and feedstock blends prior to processing into renewable fuels. The pretreatment removes impurities from the renewable oils to extend the life of the catalysts. In this pretreatment process, water and a weak acid are mixed with the feedstock at high temperatures and pressure. After a predetermined contact time, the mixture is cooled and separated in an electrostatic separator to produce a renewable oil suitable for processing into renewable fuels, and a water phase. Phosphorus, nitrogen, salts and other impurities are removed with the water phase. This water phase comprises the wastewater requested for approval for injection.

The ARA pre-treatment system is currently under construction. Therefore, final water quality data for the various blends of feedstock are not available. However, based on bench scale analyses and projections from ARA, the following range of raw water quality is approximated:

- pH: 3
- TDS: 5,000 mg/L - 8,000 mg/L
- Conductivity: 2,809 μ S/cm - 4,500 μ S/cm

Prior to injection, the pH will be adjusted to be compatible with the injection well design based on geochemical modeling of water/well, water/rock and water/water interactions. Adjustment of the pH will result in an increase in TDS. Initial bench scale testing indicates this TDS increase to be in the 5 - 10% range and will depend on the buffering capacity of the wastewater during operation.

The wastewater will be injected into the Mississippian Madison Aquifer, which is determined to be an Underground Source of Drinking Water (USDW), with a measured TDS concentration within the UIC permit area of 5,440 mg/L. An aquifer exemption has been requested (UIC Permit Application, Attachment H).

At startup, the average volume of wastewater to be injected into each well is approximately 800 to 900 bbls/day. These volumes are consistent with the operation of the Class II wells, which have received up to an average of 850 bbls/day. The average and maximum injection rates are 1,300 and 2,000 bbls/day respectively. The maximum injection pressure is 1,025 pounds with an average injection pressure of 600 pounds. The pressures are authorized by the Montana Board of Oil & Gas Conservation within the current Class II UIC permits.

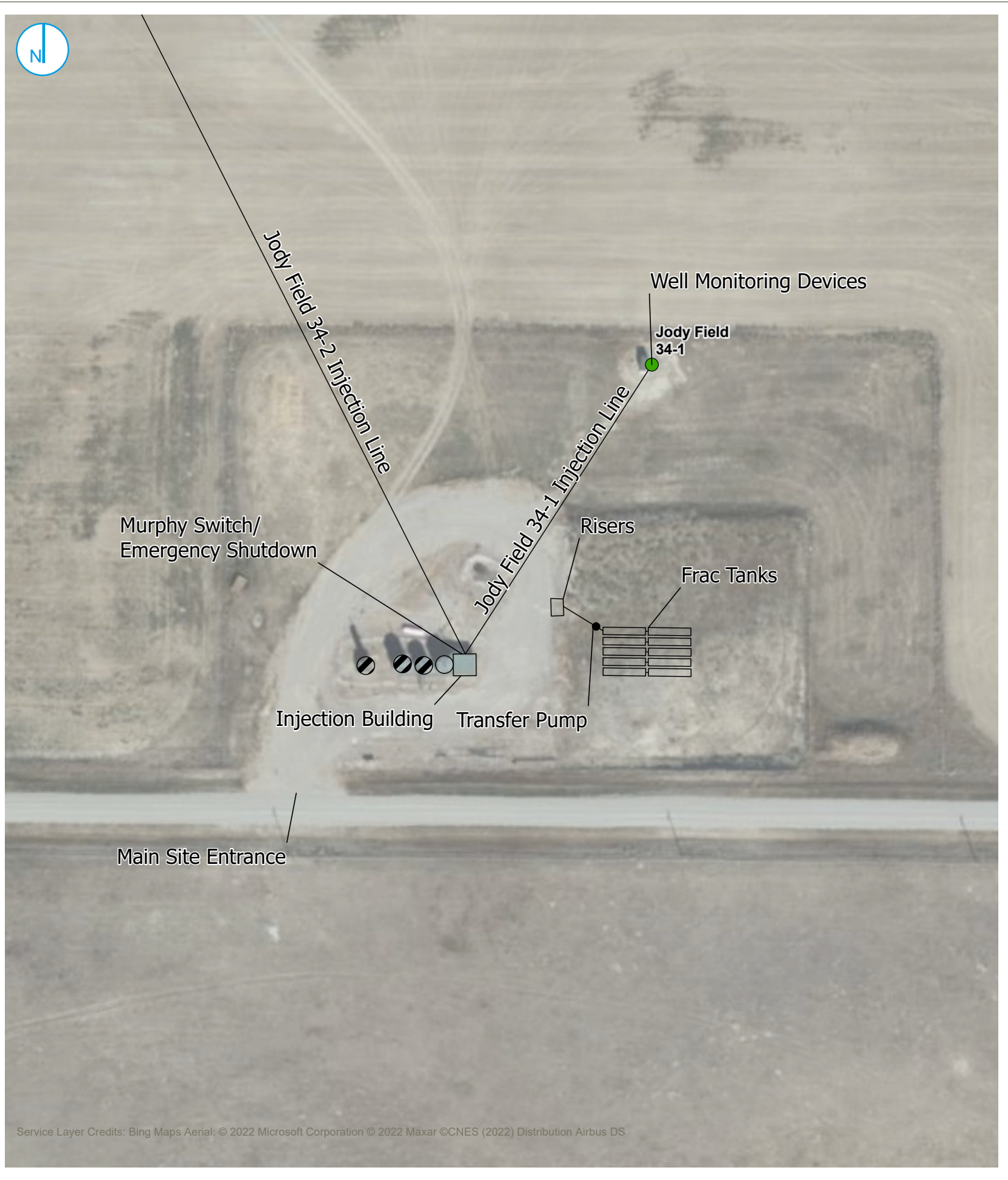
Montana Renewables plans to increase the wastewater injection volume over the life of the facility up to a potential maximum of 3,600 bbls/day. Future Class V UIC wells are proposed in the Area Wide UIC Permit Application to accommodate this expansion, as described in Attachment A of the Area Wide UIC Permit Application.

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FIGURES

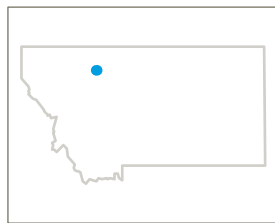
Figure 1. Injection Site Layout

Figure 2. Injection Operations and Monitoring Program



Service Layer Credits: Bing Maps Aerial: © 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS

Map Scale: 1:1,800 | Map Center: 112°22'18"W 48°13'20"N



KEY MAP (not to scale)

- Active Injection
- Out of Service Equipment
- Polygon Notes

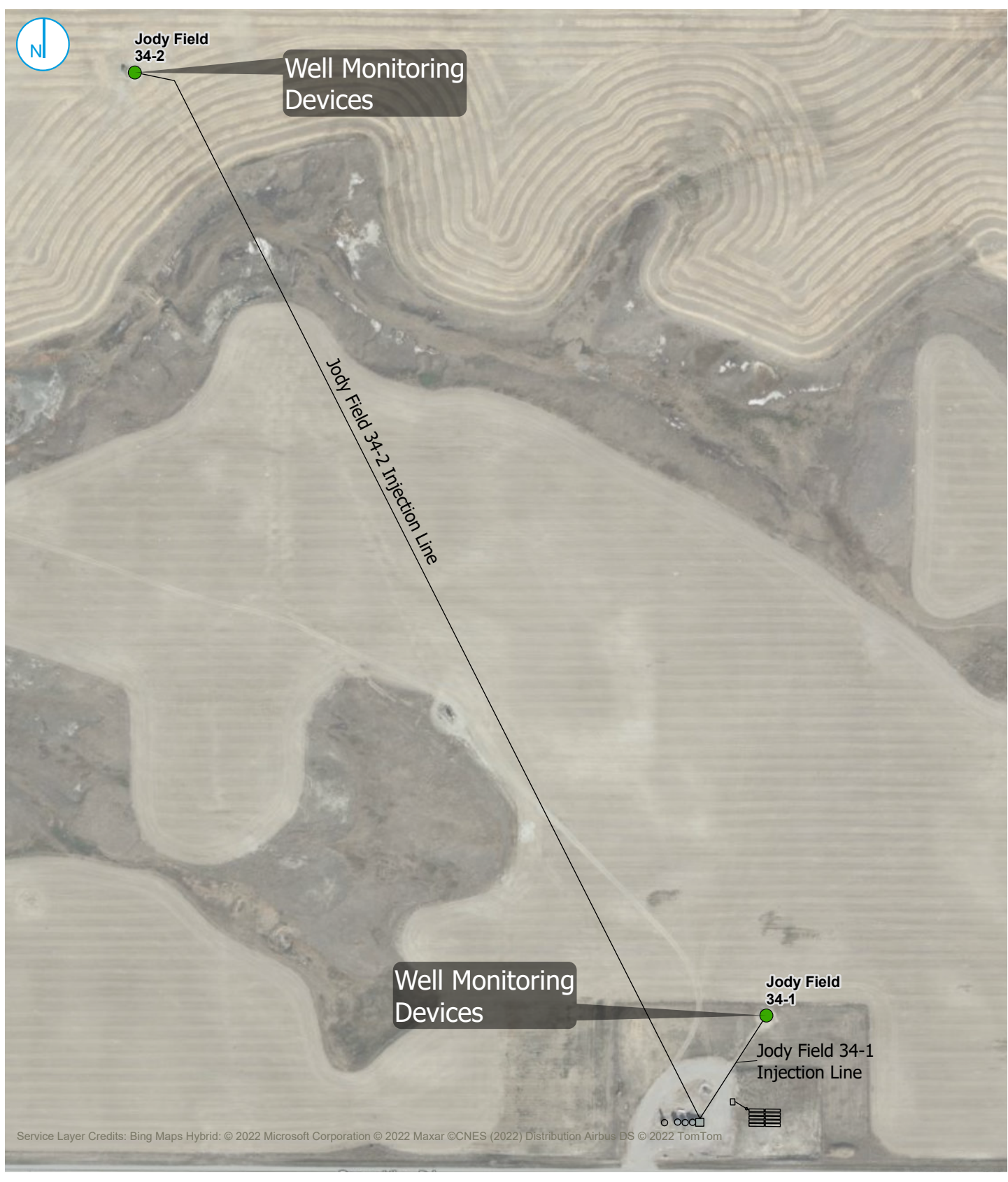
INJECTION SITE LAYOUT
MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE UIC
APPLICATION
JODY FIELD WELLS



Attachment D
Figure - 01

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





Service Layer Credits: Bing Maps Hybrid: © 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS © 2022 TomTom

Map Scale: 1:5,100 | Map Center: 112°22'24"W 48°13'31"N

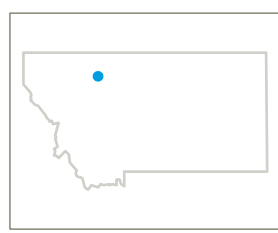
● Active Injection

INJECTION OPERATIONS JODY FIELD WELLS 34-1 AND 34-2

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS

Attachment D Figure - 02

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



KEY MAP (not to scale)



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EXHIBITS

Exhibit A. WatchDog® System Specifications



WatchDog 4 *Specifications*

Requirements & Ideally the unit should be faced for optimum solar exposure (i.e. south in the northern hemisphere)
Requires at least 1 bar of cell service. Typically works where text works

Environment -40°C to 65°C (-40F to 150F), NEMA4
All exposures except for immersion

Certifications Class I Div. 2, Groups C & D, Exia
FCC PART 15 IC/ICES-003
Analog Input 1-3: Class 1 Div 1
Digital Input 1-2: Class 1 Div 2
Pulse Counter: Class 1 Div 1



Operation Sample frequency: minutely, up to 24 images per day, hourly data upload.
Minute by Minute data available (transmits hourly)
Up to 30 days without solar charge

Options Up to 2 High dynamic range cameras (640x480 images)
Up to 3 external RTDs, (1-5Vdc), and/or (4-20mA) Sensors
Up to 6 external RTDs, (1-5Vdc), and/or (4-20mA) Sensors, WatchDog4 Add-On-Board required (see Add-On-Board Documentation)

Ordering Systems include cables, end device(s), and mounting.
Installation available (Call for quote)

- Specify quantity of cameras: (0-2) c/w 3m cable
- Specify qty of RTDs, Vibration, Electric Current and or Pressure Sensors: (0-6) c/w 3m cable
- Specify range of Pressure sensors: (15, 50, 500, 1500, 5000 psi).

Typical lead time > 4 weeks.

Mounting A Frame, stand, and wall mount available

Shipping FOB Calgary, AB
Dimensions (LxWxH):
Weight: 5.4 kg (incl. battery pack)

Warranty 90 days, parts and labour

Consumables 1 field replaceable 12Ahr 6Vdc SLA battery included.

Pricing (CAD) \$1500 - \$3,500 email for quote info@afti.ca

WD4 Spec. Sheet
© Revised September 23, 2019

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment E Plugging and Abandonment Plan (40 CFR §§ 144.31 & 144.51)

Privileged and Confidential

CONTENTS

1. Plugging and Abandonment Plans	2
--	----------

EXHIBITS

Exhibit A. Plugging and Abandonment Plans

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1. PLUGGING AND ABANDONMENT PLANS

Updated plugging and abandonment plans have been prepared for Wells Jody Field 34-1 and 34-2, based on recent workovers and are included in Exhibit A. The plans are required by the Montana Board of Oil and Gas Conservation and have been approved for the existing Class II UIC wells.

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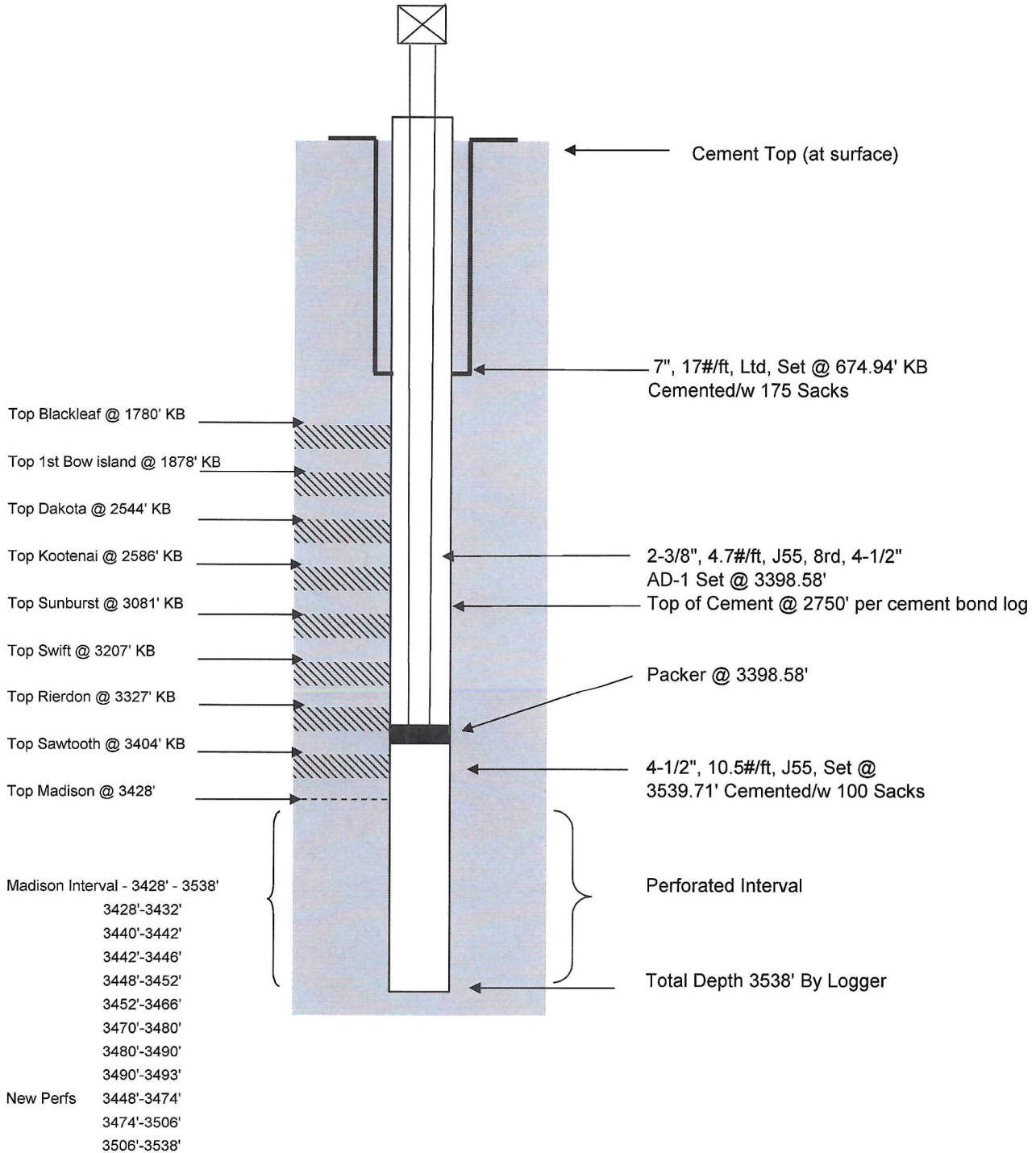
EXHIBIT A

Plugging and Abandonment Plans

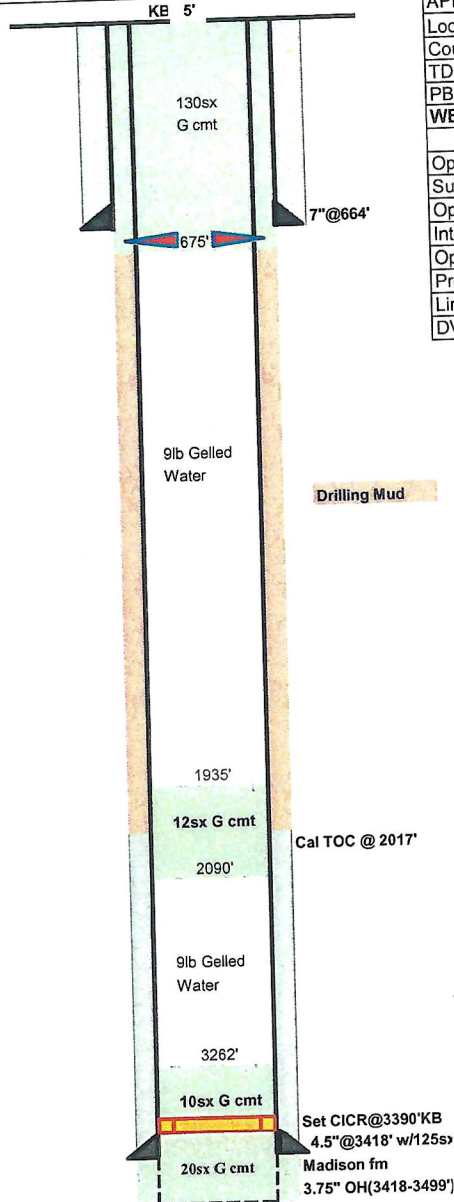
Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W
	(330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

SCHEMATIC
After Workover



MT BOGC Approved Wellbore Schematic



Operator: Montalban Oil & Gas Operations, Inc.			
Lease:	Jody Field	Well No.	34-2
API No.	25-073-21838	Type:	Injection
Location:	S34 29N 6W, NWSW (2310'FSL & 990'FWL)		
County:	Toole	State:	MT
Field:	Wildcat		
TD:	3499'(deepened)	KB	4038'
Spud Date:	8/7/2008		
PBTD:	GL	GL	4033'
Comp Date:	8/18/2008		
WELLBORE CONSTRUCTION			
	Size	Weight/Grade	Depth
Open Hole	8 3/4"		668'
Surface	7"	17lb / LTD	664'
Open Hole			
Intermediate			
Open Hole	6 1/4"		3419
Production	4.5"	10.5lb / API	3418'
Liner			
DV Tool			

Formation Tops	
Blackleaf	1780'
1st Bow Island	1874'
Dakota	2534'
Kootenai	2573'
Sunburst	3096'
Swift	3203'
Rierdon	3330'
Sawtooth	3404'
Madison	3438'

Perforations Required to P&A		Depth
1	4spf 3 1/8"HSC 19gm or csg rip	674-675

Mechanical Plug Required to P&A		Depth
1	CICR	3,390'

Cement Required to P&A		Sacks
Plug #1	Sqz below CICR (3390-3499')	20
Plug #2	Balance on CICR (3262-3390')	10
Plug #3	(1935-2090')	12
Plug #4	(0-675') in 4.5" & 4.5x7" annulus	130
Plug #5		
Plug #6		
Total Sacks		172

Generalized Plugging Procedure

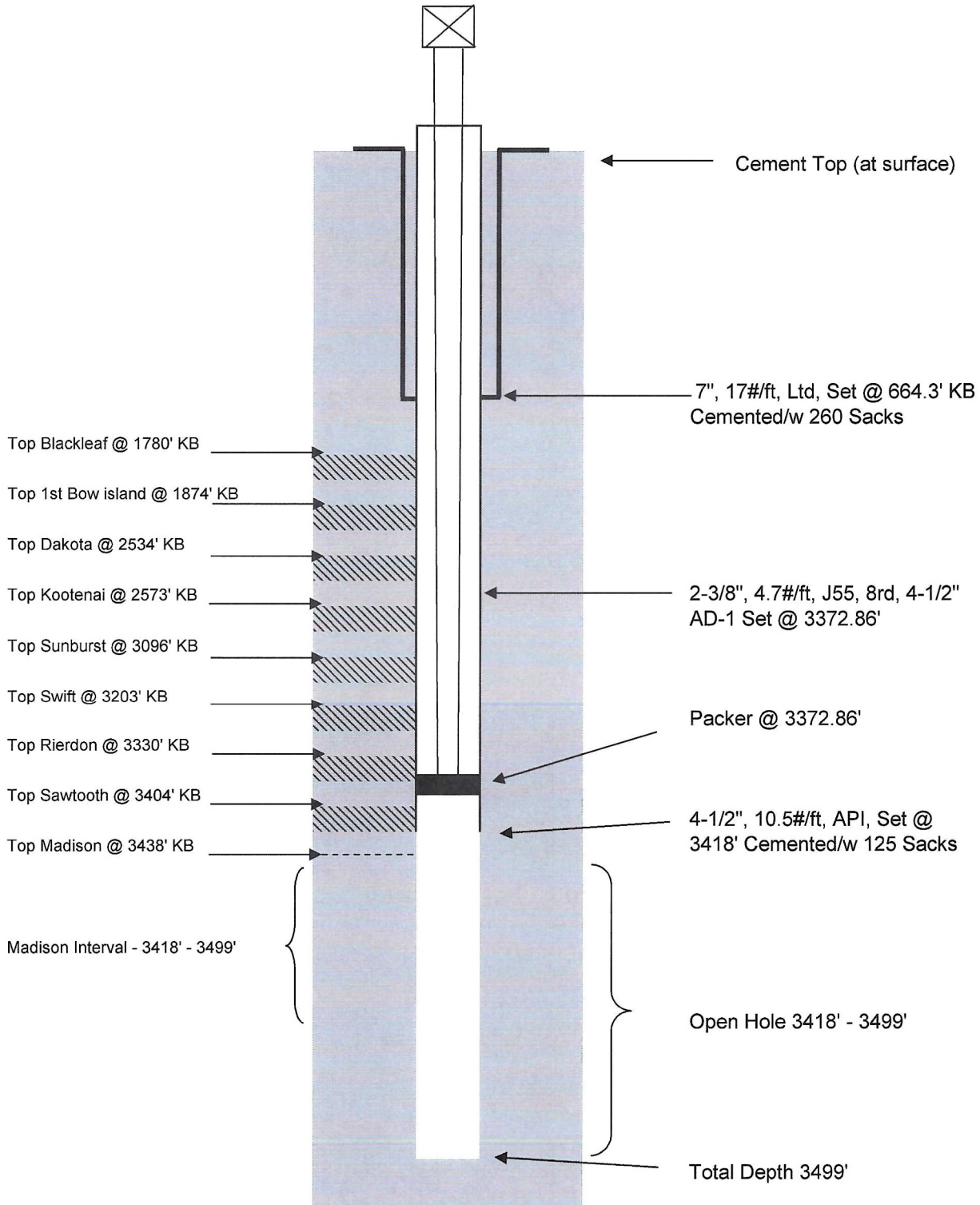
Remove wellhouse & prepare location for service rig and P&A support equipment. MIRU Service rig, set anchors. Dig working pits, lay out 2 3/8" tubing and AD1 pkr. Run 4.5" csg scraper in on workstring to 3400'KB, clean out if necessary. Lay out csg scraper. RIH with CICR on workstring and set it at 3390'KB, establish injection rate with water thru retainer and then squeeze off open hole Madison section with 20sx G cement + additives. Sting out of retainer and balance 10sx G cement on top of CICR from (3262-3390'). Pull up out of cement and circ hole with 9lb gelled water then balance 12sx G cmt from (1935-2090') across estimated TOC behind the 4.5" csg. Lay out the setting tool. Perf or csg rip the 4.5" from 674-675', lay out perf gun or ripping tool. Dig out 7" csg head, swedge up to the 4.5" csg and pump water down until get returns out 7" then bullhead squeeze the 4.5" and 4.5 x7" annulus with 130sx G cement until get good returns out 7" at surface. Dig down and cut/cap casings 4ft below sfc with steel ID plate welded on top. Cut off the injection line riser off 4ft down and purge it, then cap it. Backfill location back to natural contour and clean up any debris and solid waste for proper disposal off site. No reseeding will be necessary since site is on cultivated farmland and it will be farmed over in the future.

Surface Owner
 Jody Field
 5353 Range View Rd
 Valier, MT 59486-5424

Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W
	(2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment F Financial Information (40 CFR § 144.52)

Privileged and Confidential

CONTENTS

1.	Plugging and Abandonment Cost Estimates	2
2.	Financial Assurance Mechanism	2

EXHIBITS

- Exhibit A. Plugging and Abandonment Cost Estimates
- Exhibit B. Standby Trust Agreement and Letter of Credit

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1. PLUGGING AND ABANDONMENT COST ESTIMATES

Montalban obtained two cost estimates for plugging and abandonment of Jody Field Wells 34-1 and 34-2, based on their current design (Exhibit A). Liquid Gold Well Service Inc. provided an estimate for both wells of \$46,357. A second cost estimate was provided by Enneberg Excavation LLC of \$23,950 for both wells. Financial assurance was established based on the higher cost estimate.

2. FINANCIAL ASSURANCE MECHANISM

A Standby Trust Agreement and Letter of Credit in the amount of \$46,357 was executed on October 10, 2022 between Montalban Oil & Gas Operations, Inc. and Freedom Bank (Exhibit B). The fund is explicitly established for plugging and abandonment of injection wells Jody Field 34-1 and Jody Field 34-2. The Letter of Credit is effective as of October 10, 2022 and expires on October 10, 2023 with automatic annual renewal on each successive expiration date, subject to the terms provided in Exhibit B.

Based on the location of the wells (on private, rural agricultural land), no land reclamation costs are anticipated.

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EXHIBIT A

Plugging and Abandonment Cost Estimates



Well Service & Completions

Bid for Jody Field 34-1, 34-2 Injection wells

This bid is for the following work as requested by Patrick Montalban

Jody Field 34-1 Well

MIRSU, POOH with tubing and packer, TIH with tubing and casing scraper to 3400', lay out scraper, pickup 4.5" CICR, and RIH, set at 3380', establish pump rate through retainer, squeeze 35sx cement, sting out of retainer and balance 10sx cement on top of retainer, pull out of cement, and fill hole with 9lb gelled water, POOH to 2800' and balance a 12sx cement plug. POOH lay down tubing, pick up casing ripper and RIH to 685', and rip from 685' to 684', lay out casing ripper, install casing swage, circulate 130sx cement down 4.5" casing and up annulus until good cement returns are observed, tear out, RDMO.

TOTAL: \$12250



Well Service & Completions

Bid for Jody Field 34-1, 34-2 Injection wells

This bid is for the following work as requested by Patrick Montalban

Jody Field 34-2 Well

MIRSU, POOH with tubing and packer, TIH with tubing and casing scraper to 3400', lay out scraper, pickup 4.5" CICR, and RIH, set at 3390', establish pump rate through retainer, squeeze 20sx cement, sting out of retainer and balance 10sx cement on top of retainer, pull out of cement, and fill hole with 9lb gelled water, POOH to 2090' and balance a 12sx cement plug. POOH lay down tubing, pick up casing ripper and RIH to 675', and rip from 675' to 674', lay out casing ripper, install casing swage, circulate 130sx cement down 4.5" casing and up annulus until good cement returns are observed, tear out, RDMO.

TOTAL: \$11700

Privileged and Confidential

EXHIBIT B

Standby Trust Agreement and Letter of Credit

STANDBY TRUST AGREEMENT

U.S. ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PROGRAM FINANCIAL RESPONSIBILITY REQUIREMENT

To: Mail Code: 8ENF-W-SWD
UIC Financial Coordinator
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

TRUST AGREEMENT, the "Agreement", entered into as of October 10, 2022
(date)

by and between Montalban Oil & Gas Operations, Inc., a Montana Corporation, the "Grantor", and Freedom Bank, incorporate in the State of Montana, the "Trustee".

WHEREAS, the United States Environmental Protection Agency (EPA), an agency of the United States Government, has established certain regulations applicable to the Grantor, requiring that an owner or operator of an injection well shall provide assurance that funds will be available when needed for plugging and abandonment of the injection well(s),

WHEREAS, the Grantor has elected to establish a trust to provide all or part of such financial assurance for the facility or facilities identified herein, and

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this Agreement, and the Trustee is willing to act as trustee,

NOW THEREFORE, the Grantor and Trustee agree as follows:

Section 1. Definitions. As used in this agreement:

(a) The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

(c) Facility or activity means any "underground injection well" or any other facility or activity that is subject to regulation under the Underground Injection Control Program.

Section 2. Identification of Facilities and Cost Estimates. This Agreement pertains to the facilities and cost estimates identified on attached Schedule A (attached). (Schedule A lists, for each facility, the EPA identification number, name, address, and the current plugging and abandonment cost estimate, or portions thereof, for which financial assurance is demonstrated.)

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a trust fund, the "Fund," for the purpose of assuring compliance with the plugging and abandonment requirements established by EPA for the facilities identified on Schedule A. The Underground Injection Control regulations which govern the authorization to inject include a requirement for such financial assurance that the well or wells shall be plugged and abandoned at the time

designated by EPA. The Grantor and Trustee acknowledge that the Fund and all expenditures from the Fund shall be to fulfill the legal obligations of the Grantor under such regulations, and not any obligation of EPA. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible, nor shall it undertake any responsibility, for the amount or adequacy of any additional payments necessary to discharge any liabilities of the Grantor established by EPA, nor shall the Trustee have any duty to collect such additional amounts from the Grantor.

Section 4. Payment for Plugging and Abandonment. The Trustee shall make payments from the Fund only for the costs of plugging and abandonment (P&A) of the injection wells covered by this Agreement and the associated P&A Plan, only after EPA has advised the Trustee that work has been completed under the P&A Plan that complies with 40 C.F.R. § 144.28 and/or § 144.52. The Trustee shall not refund to the Grantor any amounts from the Fund unless and until EPA has advised the Trustee that the P&A Plan has been successfully completed. The Trustee shall not release any funds to the Grantor that are necessary to cover liability for any injection wells covered by this Agreement that remain unplugged.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; *except that:*

(i) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the Federal or a State government;

(ii) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State government; and

(iii) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and (b) To purchase shares in any investment company registered

under the Investment Company Act of 1940, 15 U.S.C. 80a-1 *et seq.*, including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered: (a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition; (b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted; (c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depository even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depository with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve Bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund; (d) To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and (e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee shall be paid from the Fund.

Section 10. Annual Valuation. The Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the appropriate EPA Regional Administrator a statement confirming the value of the Trust. Any securities in the Fund shall be valued at market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the EPA Regional Administrator shall constitute a conclusively binding assent by the Grantor, barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11 Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the EPA Regional Administrator, and the present Trustee by certified mail 10 days before such changes become effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee. All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A or such other designees as the Grantor may designate by amendment to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. All orders, requests, and instructions by the EPA Regional Administrator to the Trustee shall be in writing, signed by the EPA Regional Administrators of the Regions in which the facilities are located, or their designees, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or EPA hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or EPA, except as provided for herein.

Section 15. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the appropriate EPA Regional Administrator, or by the Trustee and the appropriate EPA Regional Administrator if the Grantor ceases to exist.

Section 16. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 15, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the EPA Regional Administrator, or by the Trustee and the EPA Regional Administrator if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

Section 17. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the EPA Regional Administrator issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to prove such defense.

Section 18. Choice of Law. This agreement shall be administered, construed, and enforced according to the laws of the State of Colorado.

Section 19. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of the Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

IN WITNESS WHEREOF the parties have caused this Agreement to be executed by their respective representatives duly authorized and their seals to be hereunto affixed and attested as of the date first above written.

GRANTOR

By: [Signature]
[Signature] [Date]

By: Patrick M. Montalban

Its: President
[Title]

Address:

Montalban Oil & Gas Operations, Inc
PO Box 200
Cut Bank, MT 59427
(406) 873-2845
patrickm@mogo-inc.com

TRUSTEE

By: [Signature] 10/10/22
[Signature] [Date]

By: Don Bennett

Its: President
[Title]

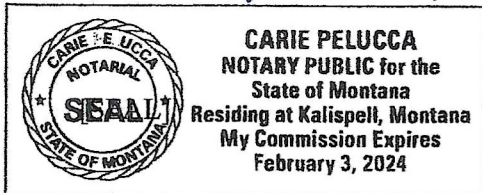
Freedom Bank
PO Box 2076
Columbia Falls, MT 59912
(406) 892-1776
dbennette@freedombankmt.com

Attest: max J. Fallon

Attest: max J. Fallon

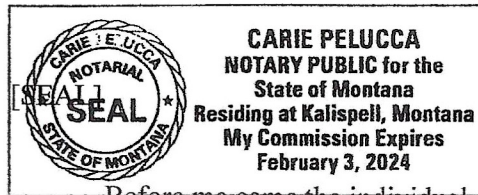
Its: Vice President
[Title] Freedom Bank

Its: Vice President
[Title]



Before me came the individual whose identity I confirmed as Patrick M. Montalban, and whose true signature is set forth above; wherefore have I set my hand and seal this 10th day of Oct., 2022

[Signature]
Notary Public



Before me came the individual whose identity I confirmed as Don Bennett, and whose true signature is set forth above; wherefore have I set my hand and seal this 10th day of Oct., 2022

[Signature]
Notary Public

SCHEDULE B

Description of Property / Financial Instrument

[Surety, Letter of Credit, etc.]

Schedule B is referenced in the Standby Trust Agreement (Section 3) dated October 10, 2022

by and between Montalban Oil & Gas Operations, Inc., the “Grantor,” and Freedom Bank, the “Trustee.”

Description of Property / Financial Instrument:


1. Letter of Credit

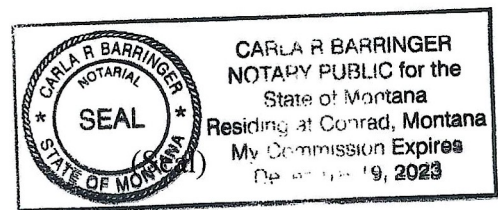
**CERTIFICATE OF ACKNOWLEDGEMENT
FOR
STANDY TRUST FUND AGREEMENT**

STATE OF : Montana
COUNT OF : Glacier

On this 10th day of October, 2022 before me personally came
Patrick M. Montalban to me known, who, being by me duly sworn, did depose
(Owner or Operator)
and say that he/she resides at Cut Bank, MT, that he/she is
(Address)
President of Montalban Oil & Gas Operations, Inc
(Title) (Corporation)

the corporation described in and which executed the above instrument; the he/she knows
the seal of said corporation; that the seal affixed to such instrument in such corporation
seal; that is was so affixed by order of the Board of Directors of said corporation, and that
he/she signed his/her name thereto by like order.


(Notary Public)





U.S. Environmental Protection Agency (EPA)
UIC Financial Coordinator
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

October 10, 2022

Re: Letter of Credit #50 Name: Montalban Oil & Gas Operations, Inc., Amount: \$46,357

To Whom it may concern:

We hereby establish our Irrevocable Standby Letter of Credit No. 50 in your favor, at the request and for the account of Montalban Oil & Gas Operations, Inc., a Montana Corporation at P.O. Box 200, Cut Bank, MT 59427 up to the aggregate amount of Forty-Six Thousand Three Hundred Fifty-Seven Dollars [\$46,357.00] available upon presentation of the following documentation by U.S. Environmental Protection Agency Regional Administrator of Region 8:

1. Your sight draft, bearing reference to this letter of credit No 50, and
2. Your signed statement reading as follows: "I certify that the amount of the draft is payable pursuant to regulations issued under authority of the Safe Drinking Water Act".

This letter of credit is effective as of October 10, 2022 and shall expire on October 10, 2023, but such expiration date shall be automatically extended for a period of 1 year on October 10, 2023 and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify both you and Montalban Oil & Gas Operations, Inc., by certified mail that we have decided not to extend this letter of credit beyond the current expiration date. In the event you are so notified, any unused portion of the credit shall be available upon presentation of your sight draft for 120 days after the date of receipt by both you and Mogo Reagan, LLC, as shown on the signed return receipts.

Whenever this letter of credit is drawn on under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of Montalban Oil & Gas Operations, Inc., in accordance with your instructions.

We certify that the wording of this letter of credit is identical to the wording specified in 40 CFR 144.70(d) as such regulations were constituted.

Don Bennett, President of Freedom Bank

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment G Site Security and Manifest Requirements (Commercial Wells Only)

Privileged and Confidential

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FIGURES

Figure 1. Site Security and Access

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1. SITE SECURITY AND WASTEWATER MANIFESTING

The injection facility is located on private land, which is fenced and gated by the landowner. Trucks enter via a single access point from Range View Road into the injection facility. As indicated on Figure 1, the landowner's residence is located adjacent to the facility. The site will be monitored 8 to 12 hours per day by the operator, along with observation by the landowner during his rounds each day. Wells Jody Field 34-1 and 34-2 are securely enclosed in buildings that are insulated and heated for winter operations.

Representative wastewater quality parameters will be provided by Montana Renewables to Montalban Oil & Gas Operations, Inc. prior to commencing initial operations. Sampling of pH will be conducted daily at the refinery. At the injection facility, a "tap" will be placed at a conveniently accessible location on the discharge line of the pump that leads to the injection wells. A representative water sample will be collected quarterly for submittal to EPA.

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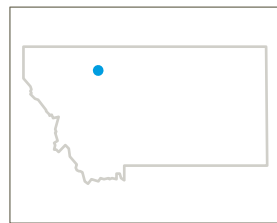
FIGURES

Figure 1. Site Security and Access



Service Layer Credits: Bing Maps Aerial: © 2022 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution Airbus DS

Map Scale: 1:3,000 | Map Center: 112°22'13"W 48°13'19"N



KEY MAP (not to scale)

- Active Injection
- Out of Service Equipment

SITE SECURITY AND ACCESS

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE UIC
APPLICATION
JODY FIELD WELLS**



Attachment G Figure - 01

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment H Underground Injection Control Program: Madison Aquifer Exemption Request

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Figure AE.06. Geologic Cross Section Location
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Figure AE.08. Sun River Dolomite Porosity Isopach Map
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Figure AE.15. Private and Public Water Wells

EXHIBITS

Exhibit A. Water Quality Analysis Wells Jody Field 14-34 and 4-1
Exhibit B. Powers Farm 29-1 Density/Neutron Log

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1. INTRODUCTION

Montalban Oil & Gas Operations, Inc (Montalban) submitted an area-wide underground injection control (UIC) permit application to USEPA Region 8 for conversion of two (2) existing Class II UIC wells and two (2) shut-in oil and gas wells to Class V UIC wells for injection of industrial wastewater to be received from Montana Renewables, a renewable fuels refinery located in Great Falls, Montana. The wells are located in the Loneman Coulee Oil Field north of Great Falls in Pondera County, Montana (**Figure AE.01**).

The application involves a phased approach with initial conversion of the two Class II wells and subsequent conversion of the two shut-in oil and gas wells at a later date to accommodate future wastewater volumes from the refinery.

The Class II wells are currently permitted by the Montana Department of Natural Resources & Conservation (DNRC) Board of Oil and Gas Conservation (BOGC) and have been granted aquifer exemptions for injection of oilfield produced water into the Madison Aquifer. The wells and aquifer exemptions are identified as follows:

Well Jody Field 34-1
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21830
Well Depth: 3,530'
Injection Formation: Madison/Sun River Dolomite
Injection Interval: 90'
Aquifer Exemption Number: 8-1681 (08/15/2011)

Jody Field No. 34-2
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21838
Well Depth: 3,491'
Injection Formation: Madison/Sun River Dolomite
Injection Interval: 73'
Aquifer Exemption Number: 8-1008 (03/15/2010)

The areal extent of the current aquifer exemptions are 0.19635 square miles each. Because the current exemptions are specific to injection of oilfield waste into Class II UIC wells, Montalban is requesting a new Area-Wide Aquifer Exemption for injection of industrial wastewater into the proposed Class V UIC wells (**Figure AE.02**).

The two (2) shut-in oil and gas wells to be included in the Aquifer Exemption Area will be completed in the Madison Aquifer and are identified as follows:

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Well Jody Field 4-1A
 Section 4- Township 28 North, Range 6 West
 Pondera County, Montana
 API No. 25-073-21842
 Well Depth: 3,442'

Well Jody Field No. 14-34
 Section 34-Township 29 North, Range 6 West
 Pondera County, Montana
 API No. 25-073-21740
 Well Depth: 3,415'

The following application demonstrates the regulatory basis for requesting the new aquifer exemption based on water quality criteria and the fact that the aquifer within the area of interest is not anticipated to serve as a public drinking water source as required under Title 40, Code of Federal Regulations (40 CFR), Parts 146.4(a) and 146.4(c). This application also delineates the proposed Aquifer Exemption Area based on the aquifer characteristics, confining layers, area-wide UIC permit boundary, Area of Review (AoR) and anticipated injection volumes over the life of the refinery.

2. LAND USE

The proposed UIC wells are located within the Loneman Coulee Oil Field in Pondera County, Montana. The land within the requested exemption area is used for oil and gas related activities and agriculture. The identities of the landowners are provided in **Figure AE.03** and detailed in **Table 1** below.

TABLE 1. Landowners within the Aquifer Exemption Area		
Landowner	Parcel #	Use
Field, Jody	26-4096-34-4-04-01-0000	Agricultural
Vandenbos, William D & Tamara K JTRos	26-4096-33-4-01-01-000	Agricultural
Vandenbos, Keith E & Leiha R. JTRos	26-4096-33-1-01-01-0000	Agricultural
Field, Jody	26-4096-34-2-03-03-0000	Agricultural
Field, Jody	26-4096-34-1-03-01-0000	Agricultural
Field Ranch Inc.	26-3984-03-2-02-02-0000	Agricultural
Field Ranch Inc.	26-3984-04-1-01-01-0000	Agricultural
Field Ranch Inc.	26-3984-04-2-02-01-0000	Agricultural
Vandenbos, William D & Tamara K JTRos	26-4096-33-4-01-01-000	Agricultural

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2.1 Geology

2.1.1 Geological Structure of the Madison Aquifer

The Madison Aquifer is part of the Northern Great Plains aquifer system, which extends across Montana, Wyoming, North Dakota, and South Dakota and lies beneath confining units in the proposed aquifer exemption area (**Figure AE.04**) (USGS, 1996). The Madison Aquifer in this area is comprised of the Mississippian Madison Limestone, which includes the Lodgepole Limestone, overlain by the Mission Canyon Limestone. The deposits consist of marine carbonates and evaporites deposited in a shallow water environment (Downey, 1984). The Lodgepole Limestone consists mainly of fossiliferous to micritic dolomite and limestone units. The Mission Canyon Limestone consists of a coarsely crystalline limestone at its base, grading upward to finer crystalline limestone. Because of the solubility of the Madison Limestone carbonate rocks, the development of karst features is common, including enlarged joints, sink holes, caves and solution breccias, resulting in secondary permeability within the units. Downey (1984) indicated that within the Madison Aquifer, "fracture interconnection between zones of greater permeability appear to be the major route of water flow." The thickness of the Madison Limestone in northwestern Montana is mapped at approximately 1,000 to 1,200 feet as illustrated on **Figure AE.05** (Downey, 1984).

The Class II UIC wells (Jody Field wells 34-1 and 34-2) are completed within the Sun River Dolomite, the uppermost section of the Mission Canyon formation. The Sun River Dolomite ranges up to an average of approximately 200 feet thick in this area with the Mission Canyon and Lodgepole extending approximately 1,000 feet in thickness beneath that (Pasternack, 1988). A cross section was prepared based on well data gathered from Montana BOGC records (**Figures AE.06 and AE.07**). As indicated in the cross section, the Sun River Dolomite, in close proximity to the proposed Class V wells, is approximately 250 feet thick. The thickest completed injection interval in the existing Class II UIC wells is 90 feet thick.

The Sun River Dolomite has been studied extensively for its hydrocarbon production potential and was determined to have an average porosity of 8 to 14% and average permeability of 10 to 82 millidarcy (md) with the highest values observed in the Pondera Field. **Figure AE.08** indicates the porosity values mapped in the Pondera field and surrounding areas. According to Pasternack (1988), two dominant porosity types lie within the Sun River Dolomite; moldic porosity in discreet areas developed from dissolution of bioclastic debris and fracture porosity, which is evident throughout all areas of the Sun River Dolomite. Bioclastic debris is deposited as shallow marine bars oriented northwest-southeast. As indicated on **Figure AE.08**, the Jody Field wells are located within a bioclastic debris trend that intersects the Pondera and Highview Fields and have a bioclastic debris composition greater than 20%, inferring a high percentage of moldic porosity. The Class II Aquifer Exemptions established for this area by the Montana DOGC are based on a porosity in the range of 14% (telephone conversation with George Hudak, July 2022) and confirmed in regional well logs.

2.1.2 Confining Zones

The Madison Aquifer is bounded by confining layers that separate it from the Lower Paleozoic and Lower Cretaceous aquifers (**Figure AE.09**).

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The Madison Limestone is overlain by the unconforming confining units of the Jurassic Ellis Group, which consists of the Swift, Rierdon and Sawtooth (Piper) formations. The Ellis Group forms a confining layer between the Mississippian and lower Cretaceous aquifers and is present within the UIC wells above the Madison Sun River Dolomite (**Figures AE.10 and AE.11**).

According to USGS (2022), The Sawtooth formation in Western Montana consists of dark gray, platy to shaly, dense limestone with a local basal conglomerate. The Rierdon Formation includes gray, locally fossiliferous limestone that may contain quartz sand interbedded with greenish gray limy shale. The Swift Formation includes glauconitic, flaggy-bedded, commonly fossiliferous, fine-grained sandstone or sand coquina with dark gray shale interbeds. A dark gray, noncalcareous, micaceous shale forms the lower part of the formation, commonly with a basal chert pebble conglomerate or conglomeratic sandstone. Based on review of local well logs, the total thickness of the confining units within the Ellis group is over 220 feet.

Logs reviewed from oil and gas wells in the region indicate that the Sun River Dolomite ranges up to as much as 300 feet thick beneath the Ellis Group. Review of well logs from two nearby wells drilled deeper into the Madison indicate the presence of a dense, cherty unit with a minimum thickness of 108 feet to 147 feet directly beneath the Sun River Dolomite (API #25-073-05457 and API #25-073-05439). This unit was documented to have low to no porosity.

The confining units beneath the Mississippian Madison Formation include Silurian and Devonian units consisting mainly of shaly carbonates, shale, and evaporites (**Figure AE.12**). Because of the fine-grained lithology and the presence of evaporites in the Silurian and Devonian units, these formations are considered to be confining beds between the Mississippian aquifer and the underlying Cambrian-Ordovician aquifer (Downey, 1984). Hydrologic modeling results of Downey (1984, 1986) indicate that vertical hydraulic conductivity between the Cambrian-Ordovician and Madison aquifers is less than 10⁻⁶ ft/d throughout the study area.

The Devonian Duperow formation, which is separated from the Madison Aquifer by the Three Forks formation, was recently classified as an underground source of drinking water (USDW) in central Montana due to intervals of total dissolved solids (TDS) concentrations less than 10,000 mg/L and greater than 3,000 mg/L. The thickness of the confining layer (Three Forks formation) in the proposed Aquifer Exemption Area between the Madison and underlying Duperow aquifer is approximately 200 feet (Pasternack, 1988). Review of well logs of the easternmost well depicted on the cross section (API #25-073-21523) indicate that the Duperow formation in this area of Montana is impermeable from the top of the formation to a thickness of at least 208 feet (Exhibit B).

2.1.3 Depth and Thickness of the Madison Aquifer

The thickness of the Madison Aquifer in the proposed aquifer exemption area ranges between 1,100 and 1,200 feet (Downey, 1984), as indicated on **Figure AE.05**. The depth below the surface to the Madison is reported at 3,428' in Jody Field 34-1 and 3,438' in Jody Field 34-2 (**Figures AE.10 and AE.11**). The aquifer exemption is requested within the Sun River Dolomite, which is approximately 250 feet thick in the proposed Aquifer Exemption Area based on review of well data filed by Conoco for a well located immediately west of the Aquifer Exemption Area (API No. 25-073-05439) (**Figures AE.06 and AE.07**).

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2.2 Water Quality

The primary minerals within the Madison Limestone include calcite, dolomite and anhydrite, with dissolution of anhydrite and dolomite largely contributing to the water quality throughout the aquifer (Busby, 1991). The presence of hydrogen sulfide odor in the wells analyzed by the USGS was also noted during sampling and determined to be due in part to a terrigenous source of sulfur which has been noted in the proposed Aquifer Exemption Area (Telephone conversation with George Hudak, July 2022).

Due to the presence of anhydrites, the TDS concentrations in the Madison Aquifer vary greatly from less than 1,000 mg/L to greater than 300,000 mg/L depending on the location within the formation and groundwater flow characteristics (Downey, 1984). According to George Hudak, UIC Coordinator, Montana BOGC, the TDS concentration in the proposed Aquifer Exemption Area ranges above 5,000 mg/L.

The Montana Bureau of Mines and Geology mapped TDS concentrations in the immediately surrounding areas. The data, collected from oil tests or production wells between 1920 and 1977, indicated TDS concentrations in the Sun River Dolomite ranging from around 4,490 to 6,660 mg/L and TDS concentrations in the Madison Formation ranging from around 3,240 to 7,100 mg/L (Feltis, 1980b). A water sample collected from Well 14-34 (API #25-073-21740), which is centrally located within the Aquifer Exemption Area, reported a TDS concentration of 5,440 mg/L (Exhibit A). A water sample collected from Well 4-1 (API#25-073-21824) indicated a calculated TDS concentration of 5,109 mg/L (Exhibit A).

3. PERMIT AREA FOR THE AQUIFER EXEMPTION

The Madison Aquifer injection zone in Well Jody Field 34-1 ranges from a depth of 3,440 feet to 3,530 feet for a total injection interval of 90 feet within the Madison/Sun River Dolomite. The injection zone in Well Jody Field 34-2 ranges from a depth of 3,418 feet to 3,491, for a total injection interval of 73 feet. Regional groundwater flow direction through the southern and eastern portion of the Madison Aquifer is northeastward (USGS, 1996). A potentiometric surface map generated by the Montana Bureau of Mines and Geology based on local oil and gas well data indicates a northward groundwater flow direction in the vicinity of the Aquifer Exemption Area (Feltis, 1980a). The proposed Aquifer Exemption Area is located on the western edge of the Great Plains, west of the Sweetgrass Arch and east of the Rocky Mountains Region. There are no mapped or known faults within the Aquifer Exemption Area.

According to Pasternack (1988), the average porosity and permeability values for the Madison/Sun River Dolomite in the area of the requested aquifer exemption are 14% and 82 md respectively. Review of well logs indicated porosities in the upper Madison Formation of up to 20%. A conservative estimate of 14% was selected and the Montana BOGC agreed that a porosity of 14% would be representative of the injection intervals in the Jody Field Wells (Telephone conversation with George Hudak, July 2022). A radius of ½ mile was calculated for each well, and based on that distance, an area-wide boundary was plotted to encompass the extent of the radii for the current and future proposed injection wells and to align with a more

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conservative area of review (AoR) **Figure AE.02**). The calculated area within the Area-Wide Aquifer Exemption boundary is 3.3 square miles.

The thickness of the Madison/Sun River Dolomite is approximately 150 feet thick in the proposed Aquifer Exemption Area (Pasternak, 1988), with nearby well logs indicating a thickness up to approximately 250 feet. However, a conservative thickness of 90 feet was used to calculate the available storage volume. Based on these parameters, the available storage volume within the aquifer exemption area is a probable 275.3 MMBBL. Wastewater volumes generated from Montana Renewables will commence at approximately 1,600 to 1,800 barrels per day (BPD) and increase over time to a maximum of 3,600 BPD. The volume sent to each of the Class V wells will be dependent on the operational capacity of the permitted wells. Injection into the Class V wells would be performed within the permitted maximum allowable injection pressures (MAIP) for each well and would not exceed the fracture pressure gradient of the formation, mitigating the risk of fluid migration outside of the permitted Aquifer Exemption Area. Based on a facility life of 40 years, the maximum volume of wastewater from Montana Renewables that would be injected at a maximum flow rate of 3,600 BPD is 52.6 million barrels (MMB), which would be anticipated to encompass an area of approximately 0.84 square miles. Thus, the proposed area of 3.3 square miles represents a very conservative aquifer exemption boundary allowing for any unanticipated geologic complexities.

4. BASIS FOR DECISION

4.1 Regulatory Criteria Under Which the Exemption is Requested

Exemption of the Madison aquifer is requested on the basis that it is not currently used as a drinking water source as required under 40 CFR 146.4(a). Additionally, the Madison Aquifer is located at a depth of over 3,400 feet in the proposed Aquifer Exemption Area, beneath other accessible aquifers and thick confining layers. In accordance with 40 CFR Part 146.4 (b)(2), the Madison aquifer in this area is situated at a depth or location which makes recovery of groundwater for drinking water purposes economically or technologically impractical. Furthermore, TDS concentrations exceeding 5,000 mg/L have been measured in the Madison Aquifer within the Aquifer Exemption Area. Under 40 CFR Part 146.4(c), TDS concentrations greater than 3,000 and less than 10,000 mg/L are not reasonably expected to supply a public water system. Both criteria qualify the Madison Aquifer in this area for an aquifer exemption.

4.2 Assessment of the Madison Aquifer as a Source of Drinking Water

The Madison Aquifer in this area is measured at a depth greater than 3,400 feet and is separated from other shallow, accessible USDWs by several hundred feet of confining layers. The Madison/Sun River Dolomite section of the Madison Group is hydrocarbon producing (Gaswirth, 2010). Oil was first discovered in the Madison Formation in the area in the nearby Pondera Field in the 1920's (Hennip, 1973). The oil and gas wells in this area have either been plugged and abandoned, shut-in, or converted to injection wells (**Figure AE.13**).

Pondera County measures 1,640 square miles and is located approximately 90 miles northwest of Great Falls, which is the third largest city in Montana with a population of 58,700 (**Figure AE.14**). The population of Pondera County has declined steadily over the past several decades

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and according to the Census Bureau had declined to below 6,000 in 2021. Agricultural production employed 45% of the County's labor force in 2017, and agricultural land accounted for 25% of the county's tax base (Montana State University, 2022). The median household income in 2020 was \$30,464 (Wikipedia, 2022).

The population is served by nine (9) small water systems that draw from shallow groundwater wells and local reservoirs, as well as privately owned shallow water wells. The Madison Aquifer is not currently used as a drinking water supply in the proposed Aquifer Exemption Area. Most of the shallow Quaternary aquifers are comprised of unconsolidated alluvial deposits from the surrounding mountains (Noble, 1982bb). According to Noble (1982), these aquifers are primarily water-table aquifers, and groundwater movement follows the topography in a downstream direction. Recharge to the shallow alluvial aquifers is primarily through rainfall and snowmelt. Deeper Tertiary aquifers in the area range from depths of 100 to 300 feet and include coarse grained interbedded sandstones, channel conglomerates, tuffs and siltstones (Noble, 1982b). Alluvial aquifers are the most used aquifers in the Great Plains region of Montana, due to their high yields and proximity to agricultural land (Noble, 1982a).

Given several factors, including the more remote location of the proposed Aquifer Exemption Area, current demographics and availability of a drinking water sources within the shallower alluvial deposits, depth to the Madison Aquifer and its water quality (i.e., documented high TDS concentrations and potential presence of hydrogen sulfide), it is unlikely that the Madison Aquifer will ever be developed as a public drinking water supply for this area.

4.3 Private and Public Wells Drinking Water Wells

Figure AE.15 indicates the locations of nearby private and public water wells. Only one well is located within the proposed Aquifer Exemption Area:

Montana Groundwater Information Center (GWIC) Well ID: 81476
Well Owner: Field, C.W. Jr., Route #1, Valier, MT 59486
Aquifer: Unknown
Use: Domestic and Stockwater
Date Completed: January 19, 1953
Total Depth: 109 feet
Static Water Level: 17 feet

Figure AE.15 indicates four (4) water wells are located in the near vicinity outside of the proposed Aquifer Exemption Area (**Table 2**). Well #83374 is an agricultural well completed to a depth of 207 feet with a static water level of 160 feet.

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TABLE 2. Nearby Private and Public Wells Outside the Aquifer Exemption Boundary – Source: Montana Groundwater Information Center (GWIC)					
Well Owner Information	Aquifer	Date Completed	Well ID and Use	Well Depth (ft)	Static Water Level (ft)
Allen, John E. Valier, MT 59486	Sandstone Unit	12/27/1963	#83374 - Agricultural	207	160
Fed Land Bank 1	Unknown	Unknown	#915142 – NA	Unknown	Unknown
Allen 1	Unknown	Unknown	#915479 – NA	Unknown	Unknown
Pondera County Canal & Reservoir Co. Valier, MT 59486	Unknown	12/16/1963	#83372 – Domestic	Unknown	13

5. CONCLUSION

The proposed Aquifer Exemption Area is calculated based on conservative parameters of 14% porosity and an aquifer thickness of 90 feet, resulting in a calculated storage capacity of 275.3 MMBBL. Sufficient storage exists for injection of wastewater from Montana Renewables within the proposed Aquifer Exemption Area. Thick confining layers are present above and below the Madison Aquifer, preventing migration of injected fluids into surrounding USDWs. Injection into the Class V wells would be performed within the permitted maximum allowable injection pressures (MAIP) for each well and would not exceed the fracture pressure gradient of the formation, mitigating the risk of fluid migration outside of the Aquifer Exemption Area. No water wells are supplied by the Madison Aquifer in this area. Due to its depth (>3,000 ft) and TDS concentrations (> 5,000 mg/L), it is not anticipated that this aquifer would be used as a drinking water supply. Sufficient water resources exist in the area at depths ranging from less than 207 feet.

6. REFERENCES

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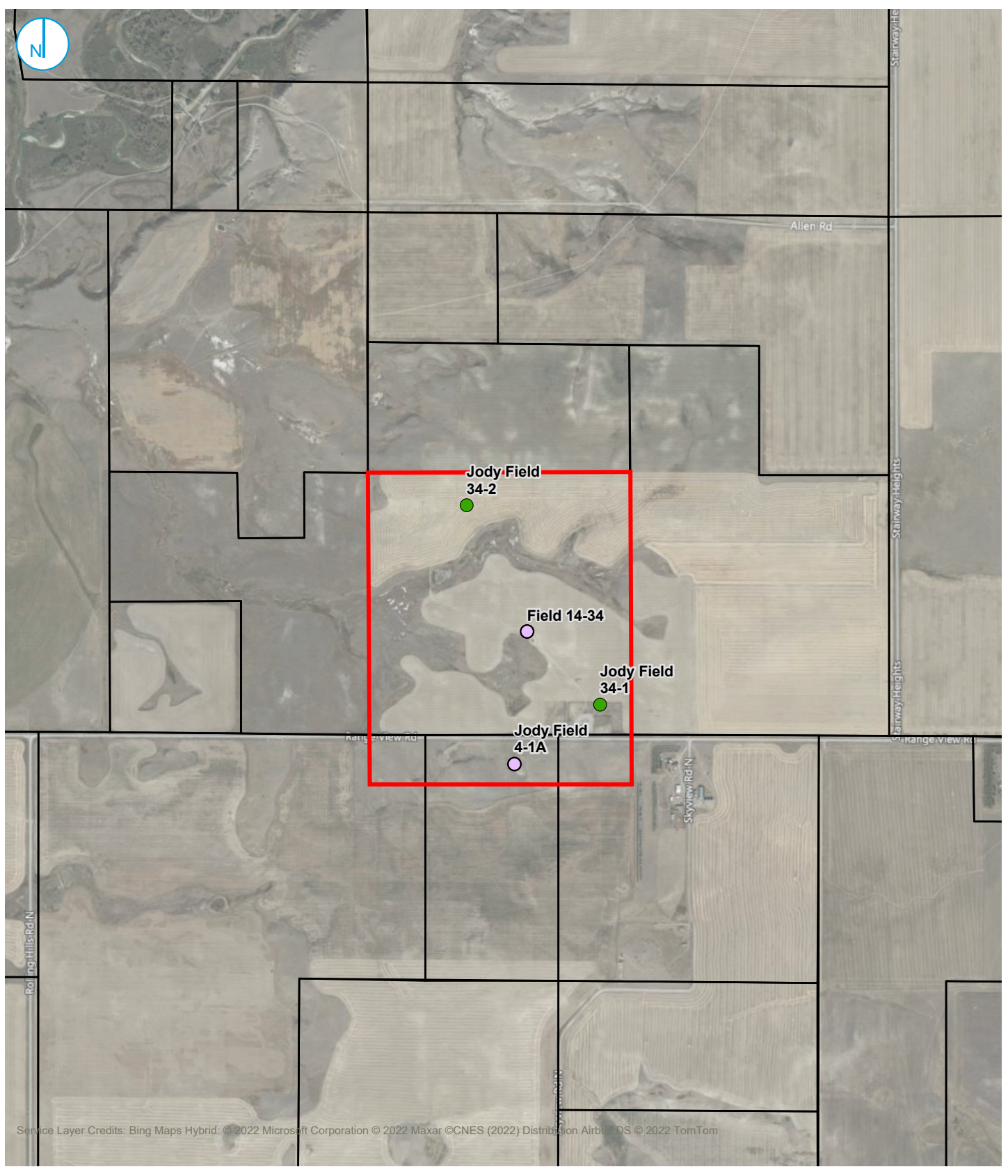
USGS Online Reference, <https://mrdata.usgs.gov/geology/state/sgmc-unit.php?unit=MTJe%3B0>, 2022

Wikipedia, Pondera County, Montana, https://en.wikipedia.org/wiki/Pondera_County,_Montana, 2022

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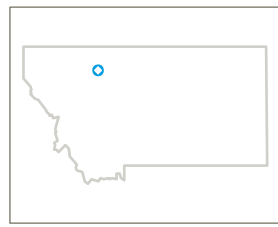
FIGURES

- Figure AE.01. Location of the Proposed Montalban Oil & Gas Operations, Inc. Class V Wells
- Figure AE.02. Existing and Proposed Aquifer Exemption Areas
- Figure AE.03. Landowners and Land Use within the Aquifer Exemption Area
- Figure AE.04. Aquifers and Confining Units of the Northern Great Plains Aquifer System.
- Figure AE.05. Northern Great Plains Aquifer System, Madison Formation Thickness
- Figure AE.06. Geologic Cross Section Location
- Figure AE.07. Geologic Cross Section
- Figure AE.08. Sun River Dolomite Porosity Isopach Map
- Figure AE.09. Northern Great Plains Aquifer System Stratigraphic Column
- Figure AE.10. Jody Field 34-1 Well Log
- Figure AE.11. Jody Field 34-2 Well Log
- Figure AE.12. Thickness of underlying Devonian Confining Layer in the Aquifer Exemption Area
- Figure AE.13. Oil and Gas Wells in the Aquifer Exemption Area
- Figure AE.14. Map of Pondera County
- Figure AE.15. Private and Public Water Wells



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Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



KEY MAP (not to scale)

- Active Injection
- Shut-In Well Location
- Area- Wide UIC
- Parcel Boundaries

LOCATION OF THE PROPOSED MONTALBAN OIL AND GAS OPERATIONS, INC. CLASS V WELLS

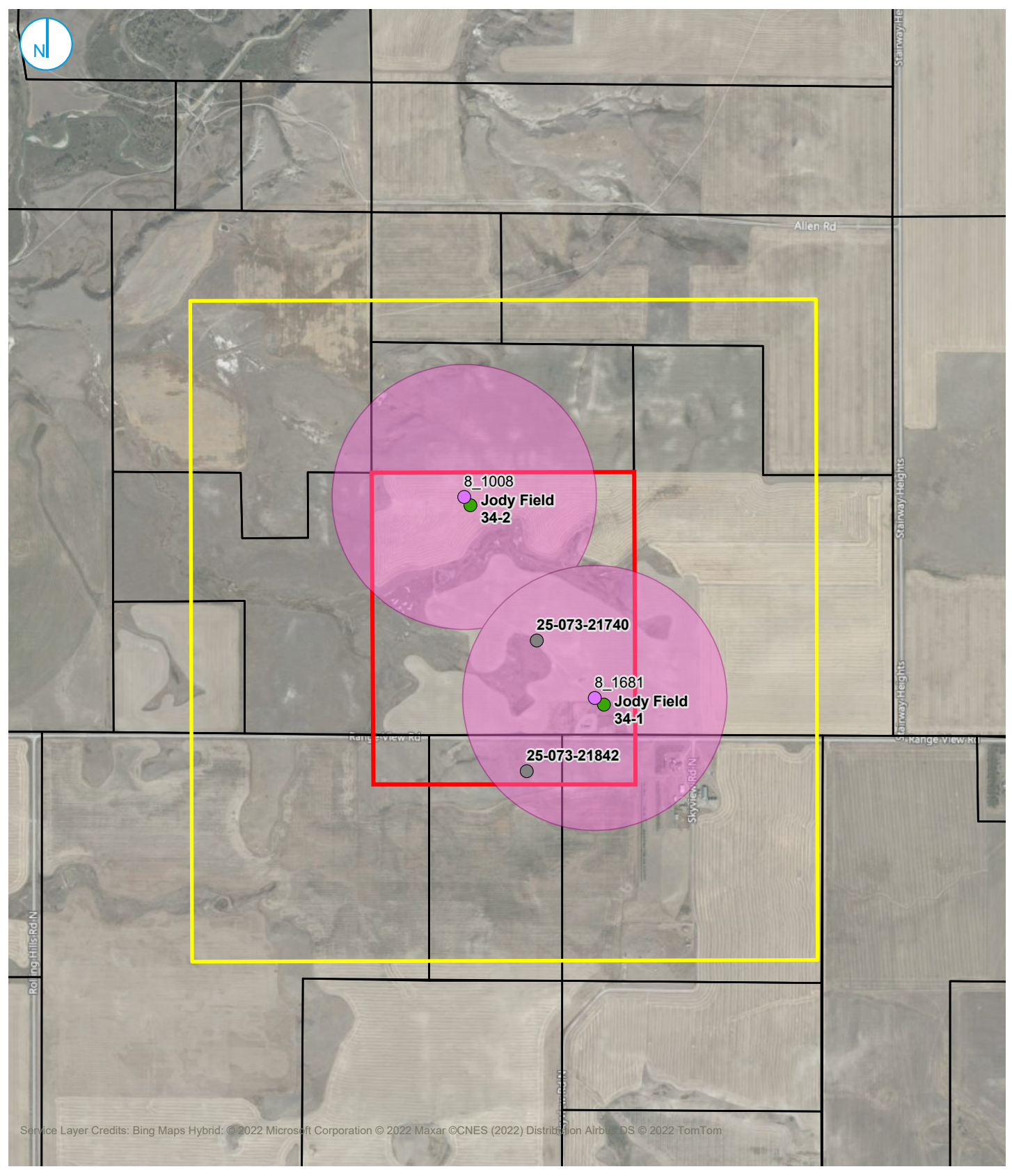
**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**



Attachment H Figure - AE.01

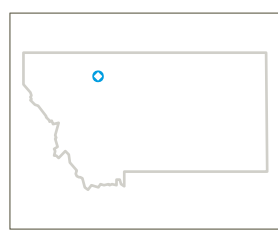
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- Active Injection
- Shut In
- Aquifer Exemption Location
- Aquifer Exemption Areas Madison Formation
- Parcel Boundaries
- Area-Wide UIC
- Proposed Aquifer Exemption Area



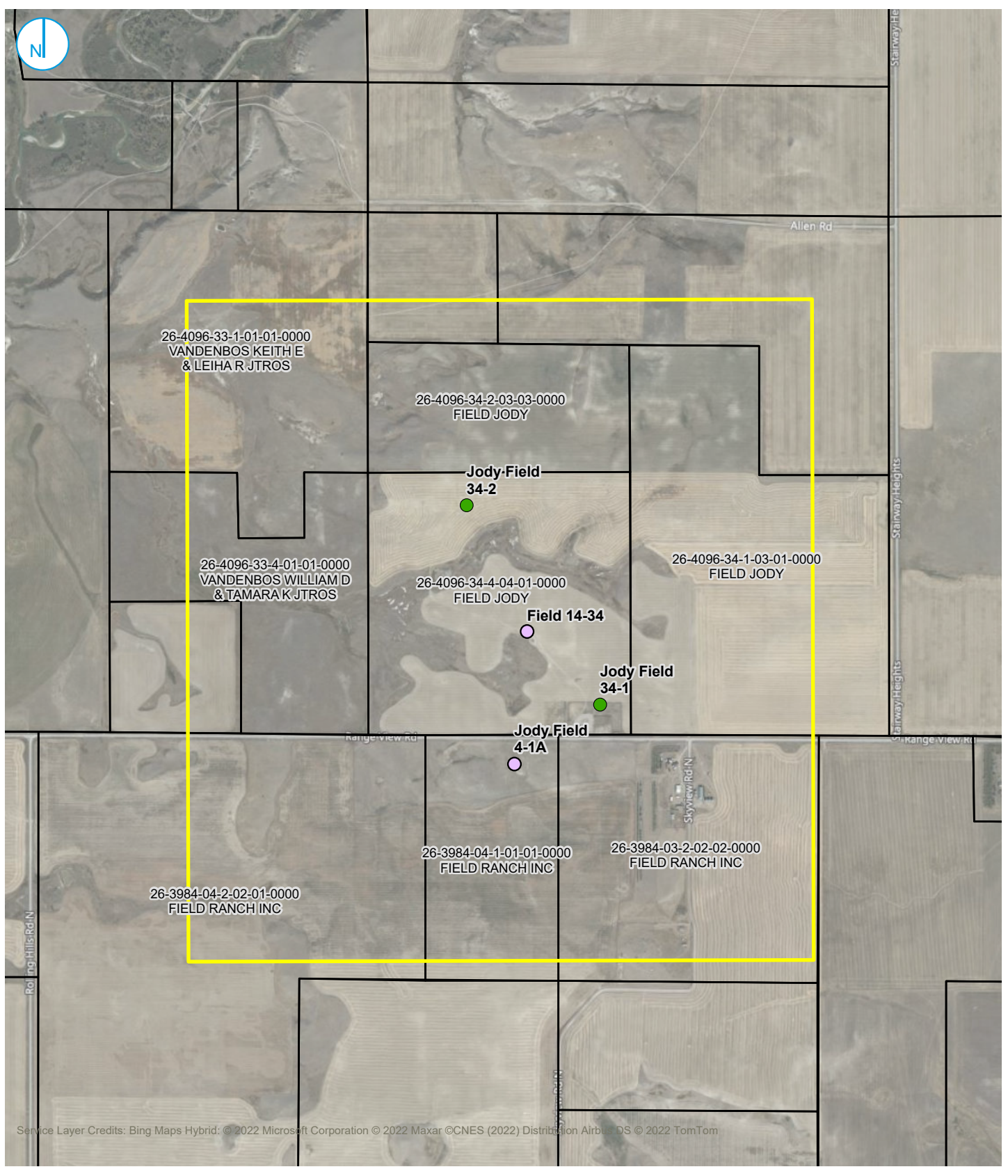
LOCATION OF CURRENT AND PROPOSED AQUIFER EXEMPTION AREA

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H Figure - AE.02

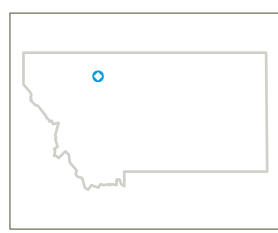
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- Active Injection
- Shut-In Well Location
- Parcel Boundaries
- Aquifer Exemption Area



LANDOWNERS AND LAND USE WITHIN THE AQUIFER EXEMPTION AREA

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H Figure - AE.03

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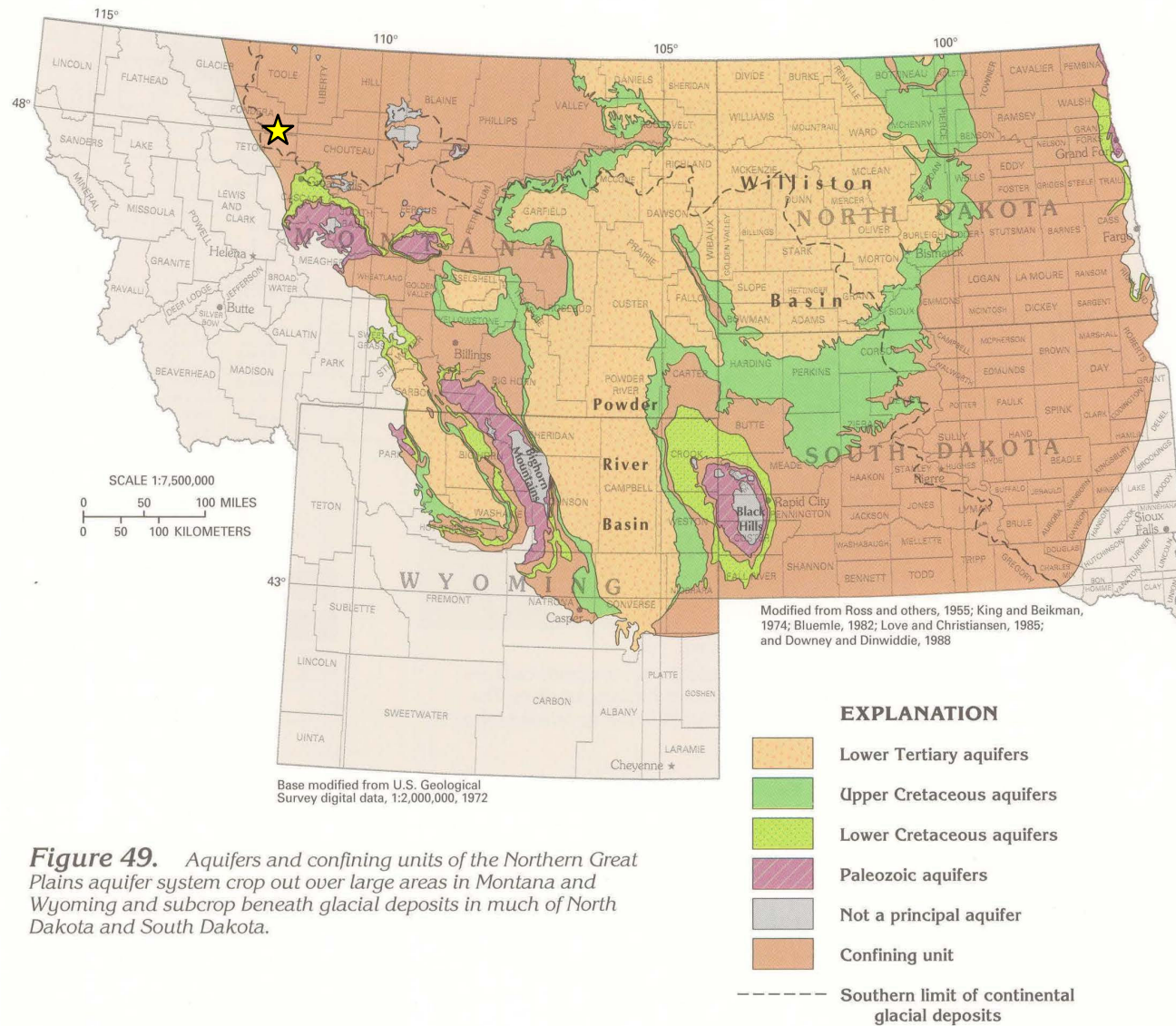


Figure 49. Aquifers and confining units of the Northern Great Plains aquifer system crop out over large areas in Montana and Wyoming and subcrop beneath glacial deposits in much of North Dakota and South Dakota.

Geohydrology of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

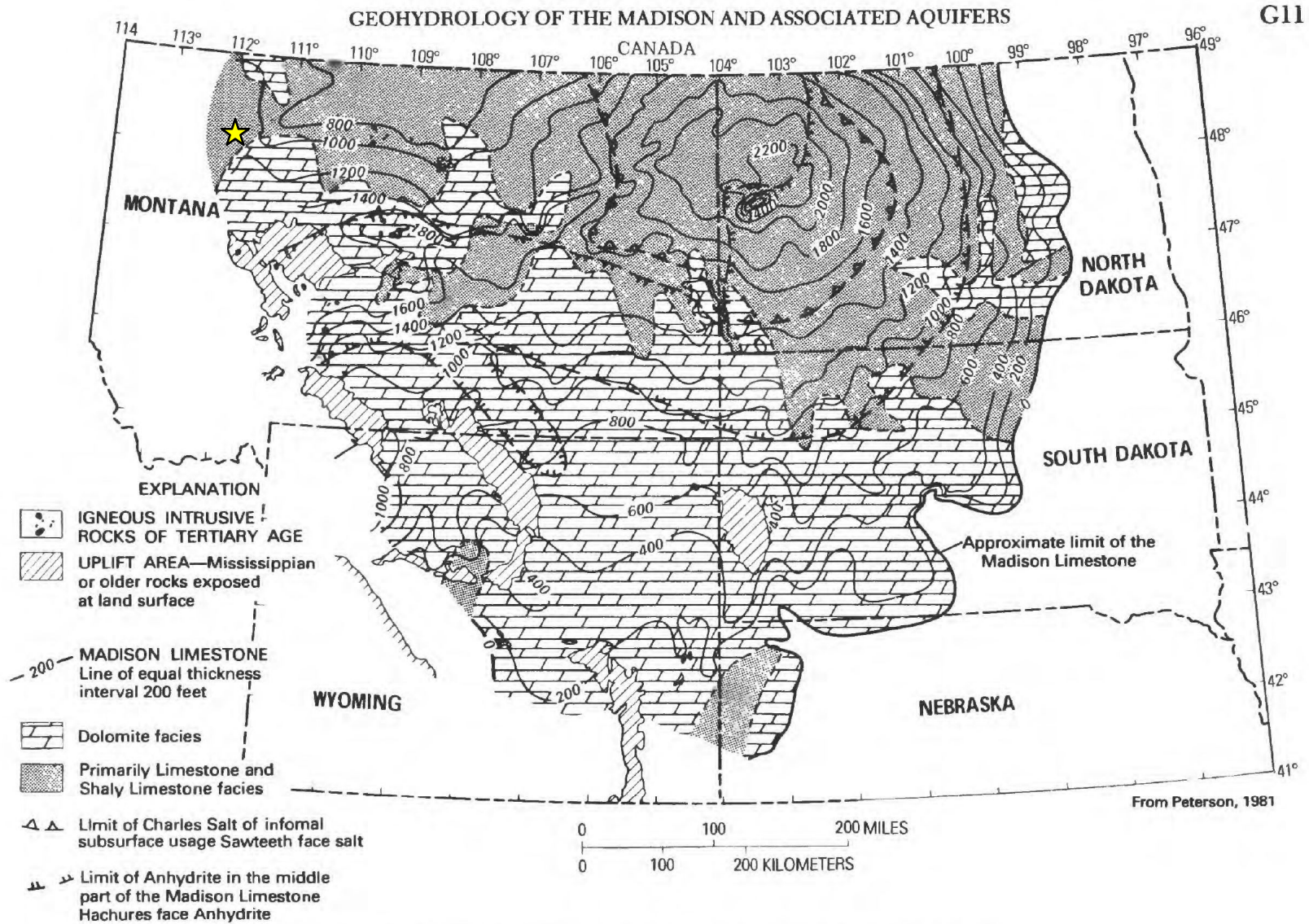
U.S. Geological Survey Professional Paper 730-I; Figure 49

**AQUIFERS AND CONFINING UNITS OF THE
NORTHERN GREAT PLAINS AQUIFER SYSTEM
MONTANBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment H
FIGURE AE.04**

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Geography of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 1273-G; Figure 11

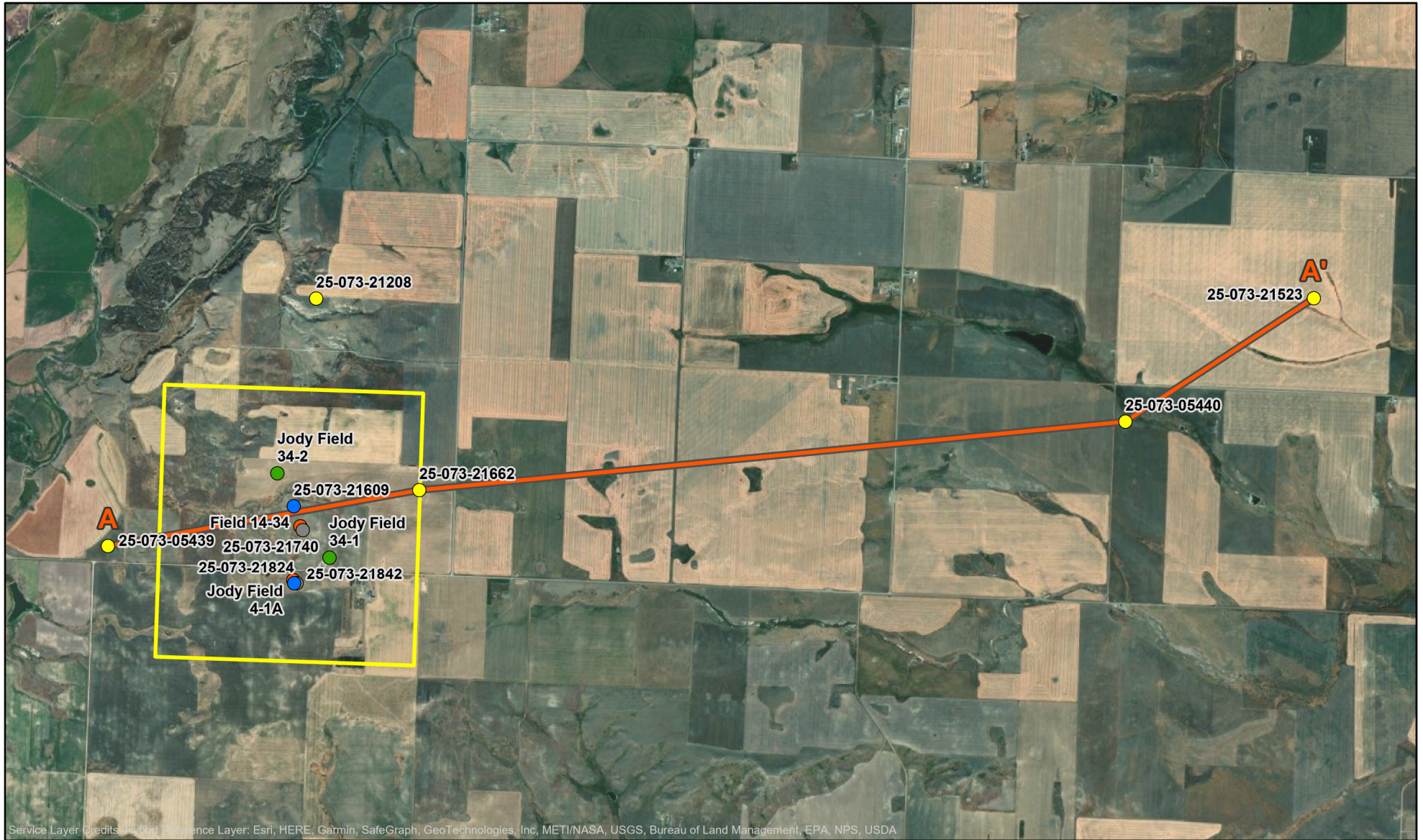
**NORTHERN GREAT PLAINS
AQUIFER SYSTEM -
MADISON FORMATION THICKNESS
MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment H
FIGURE AE.05**

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G11



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Well Location

- Active Injection
- P&A - Approved
- Shut In
- Dry Hole
- Oil

— Cross Section

Aquifer Exemption Areas

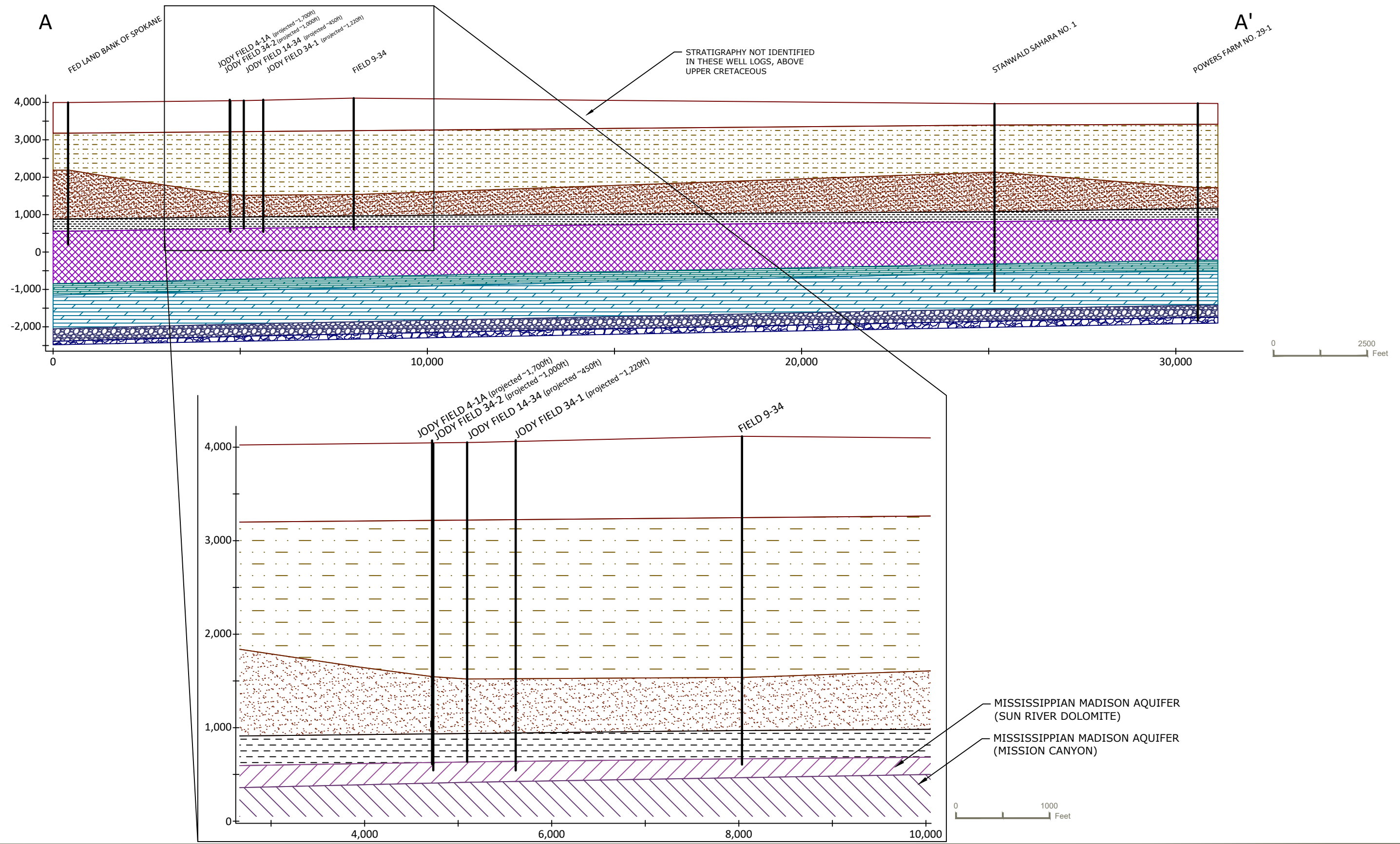
GEOLOGIC CROSS SECTION LOCATION

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment H
Figure AE.06**

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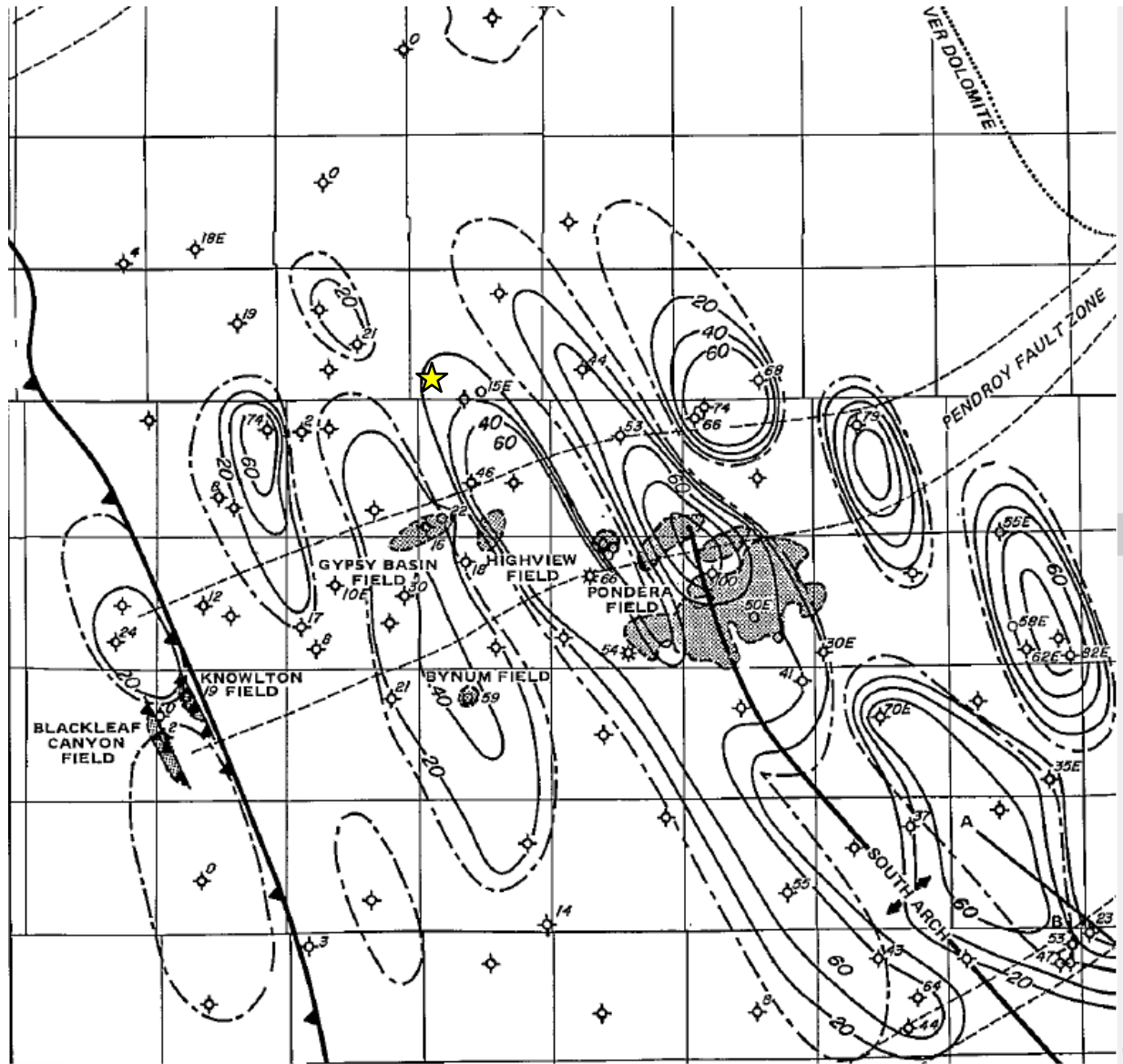
GEOLOGIC MATERIALS:

	UPPER CRETACEOUS
	LOWER CRETACEOUS
	JURASSIC ELLIS GROUP
	MISSISSIPPIAN MADISON AQUIFER (SUN RIVER DOLOMITE)
	MISSISSIPPIAN MADISON AQUIFER (MISSION CANYON)
	DEVONIAN - THREE FORKS FORMATION
	DEVONIAN - DUPELOW AQUIFER
	CAMBRIAN
	PRE-CAMBRIAN

- Notes**
- 1X Vertical Exaggeration
 - Stratigraphy interpolated and extrapolated from well logs within ~2,000ft of cross section line A-A'; using 3D visualization software, Earth Volumetric Studio (EVS).
 - Some wells are projected to the cross section line, projection distance is as identified on this figure (behind well name).

GEOLOGIC CROSS SECTION A-A'

MONTALBAN OIL AND GAS OPERATIONS INC
 AREA WIDE AQUIFER EXEMPTION APPLICATION
 JODY FIELD WELLS



Pasternack, Ira, Nature and Distribution of Mississippian Sun River Dolomite Porosity, West Flan of the Sweetgrass Arch, Northwestern Montana, August 16, 1988

★ Approximate Site Location

Figure 07

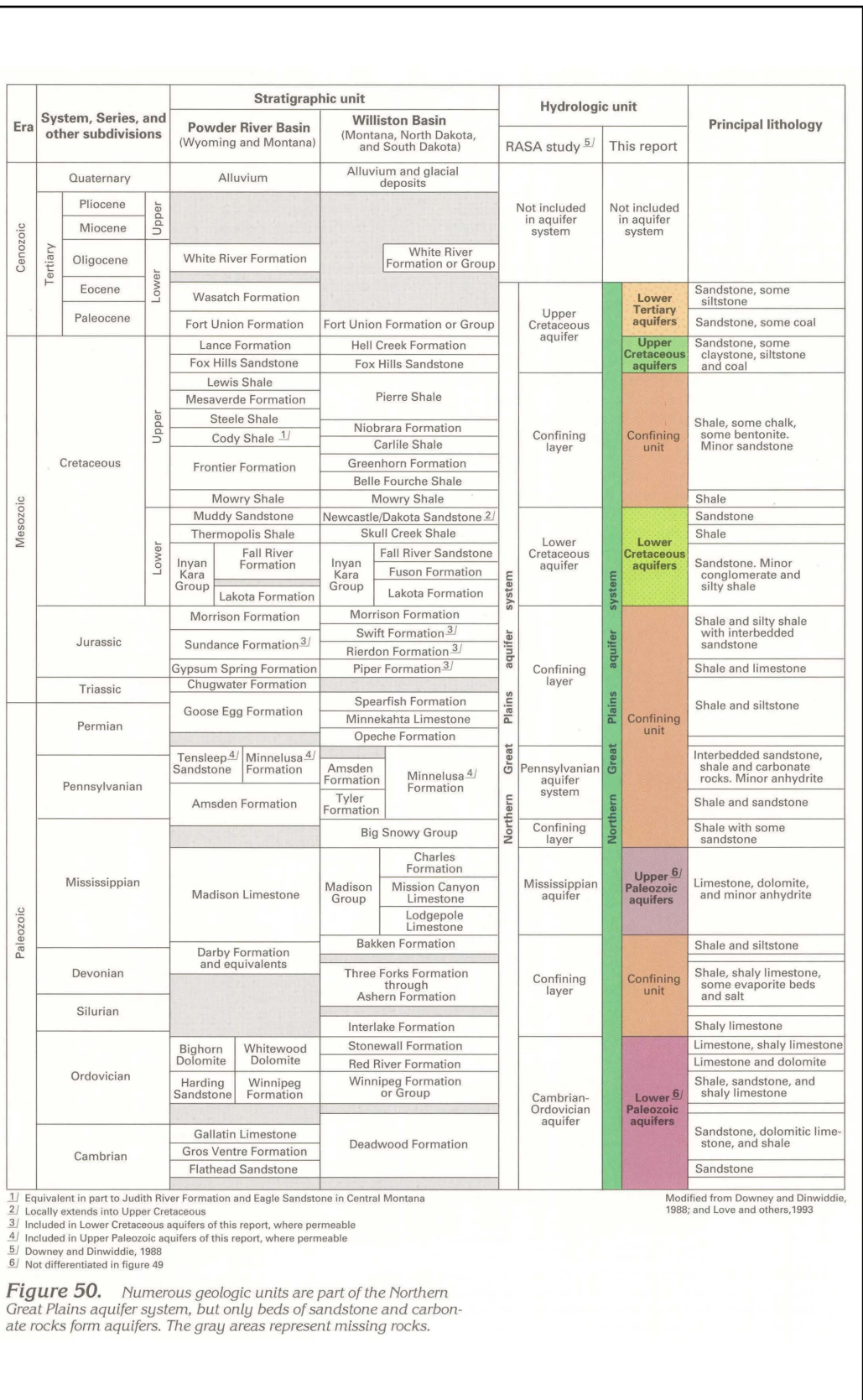
SUN RIVER DOLOMITE POROSITY ISOPACH MAP

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION JODY FIELD WELLS

Attachment H FIGURE AE.08

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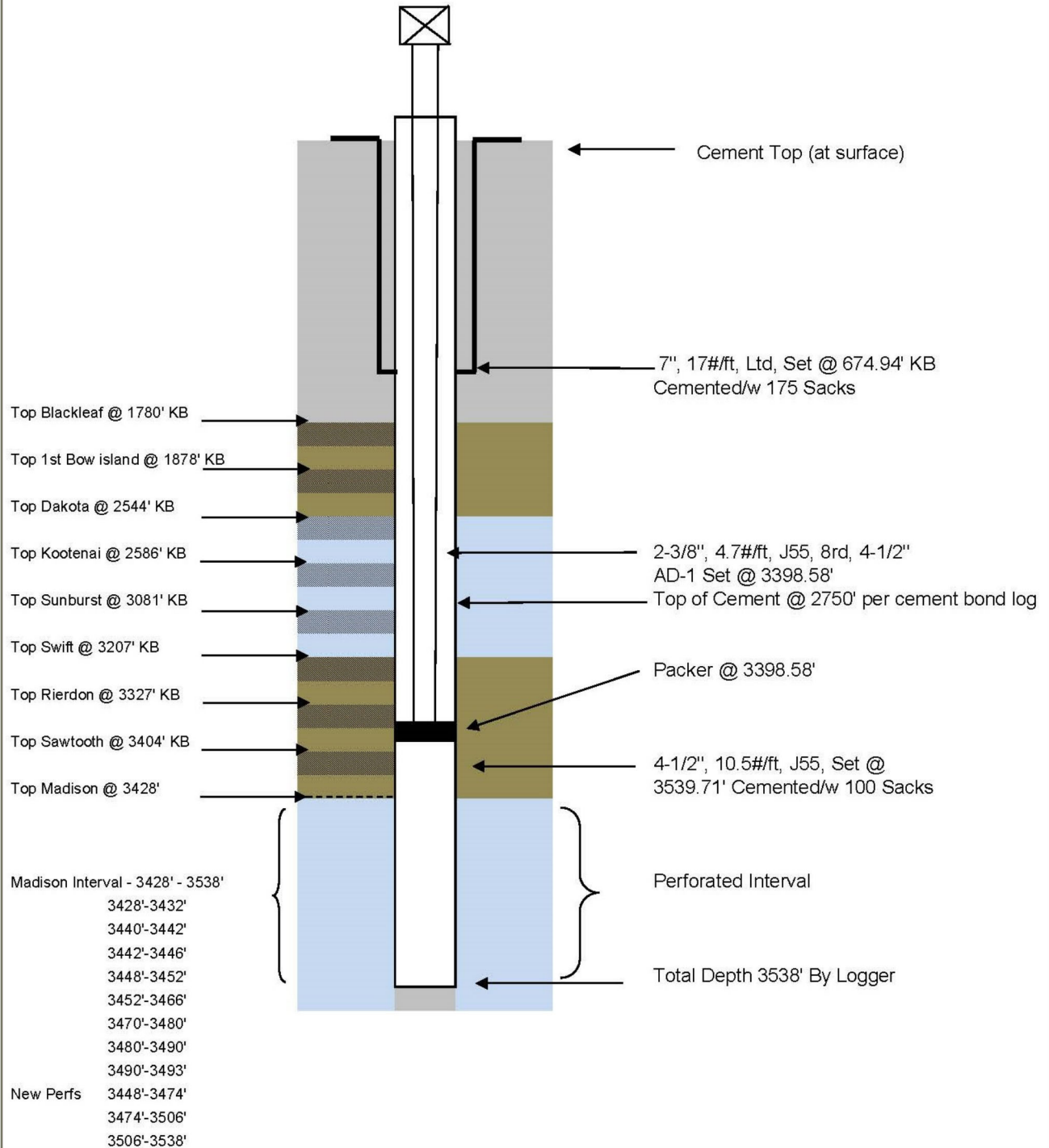
^{1/} Equivalent in part to Judith River Formation and Eagle Sandstone in Central Montana
^{2/} Locally extends into Upper Cretaceous
^{3/} Included in Lower Cretaceous aquifers of this report, where permeable
^{4/} Included in Upper Paleozoic aquifers of this report, where permeable
^{5/} Downey and Dinwiddie, 1988
^{6/} Not differentiated in figure 49
 Modified from Downey and Dinwiddie, 1988; and Love and others, 1993

Figure 50. Numerous geologic units are part of the Northern Great Plains aquifer system, but only beds of sandstone and carbonate rocks form aquifers. The gray areas represent missing rocks.

Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESEW-Section 34-T29N-R6W
	(330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

SCHEMATIC
After Workover



USDW

Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H
Figure AE.10

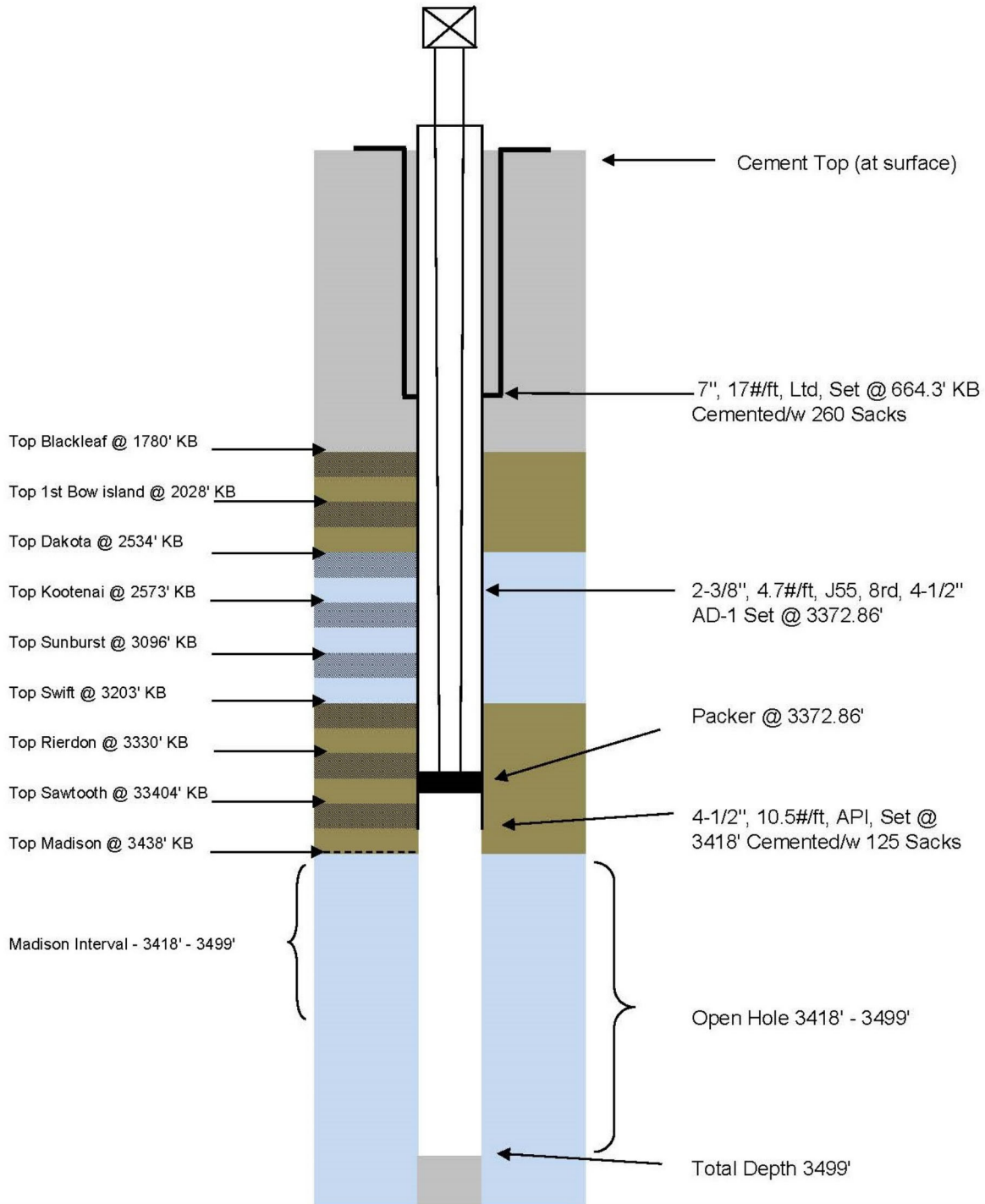
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Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H
Figure AE.11

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G10

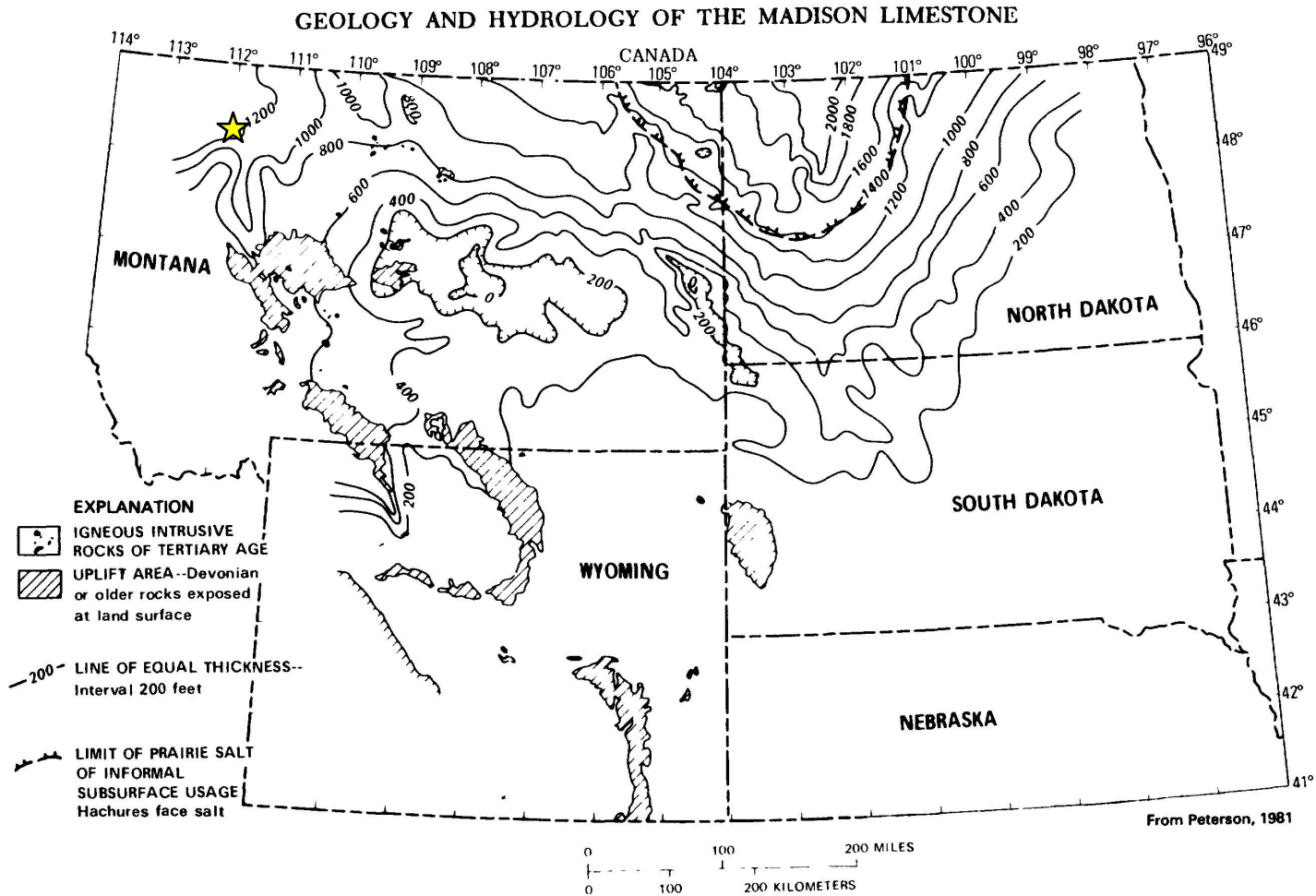


FIGURE 9. – Thickness of Devonian rocks.

Geohydrology of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 1273-G; Figure 9

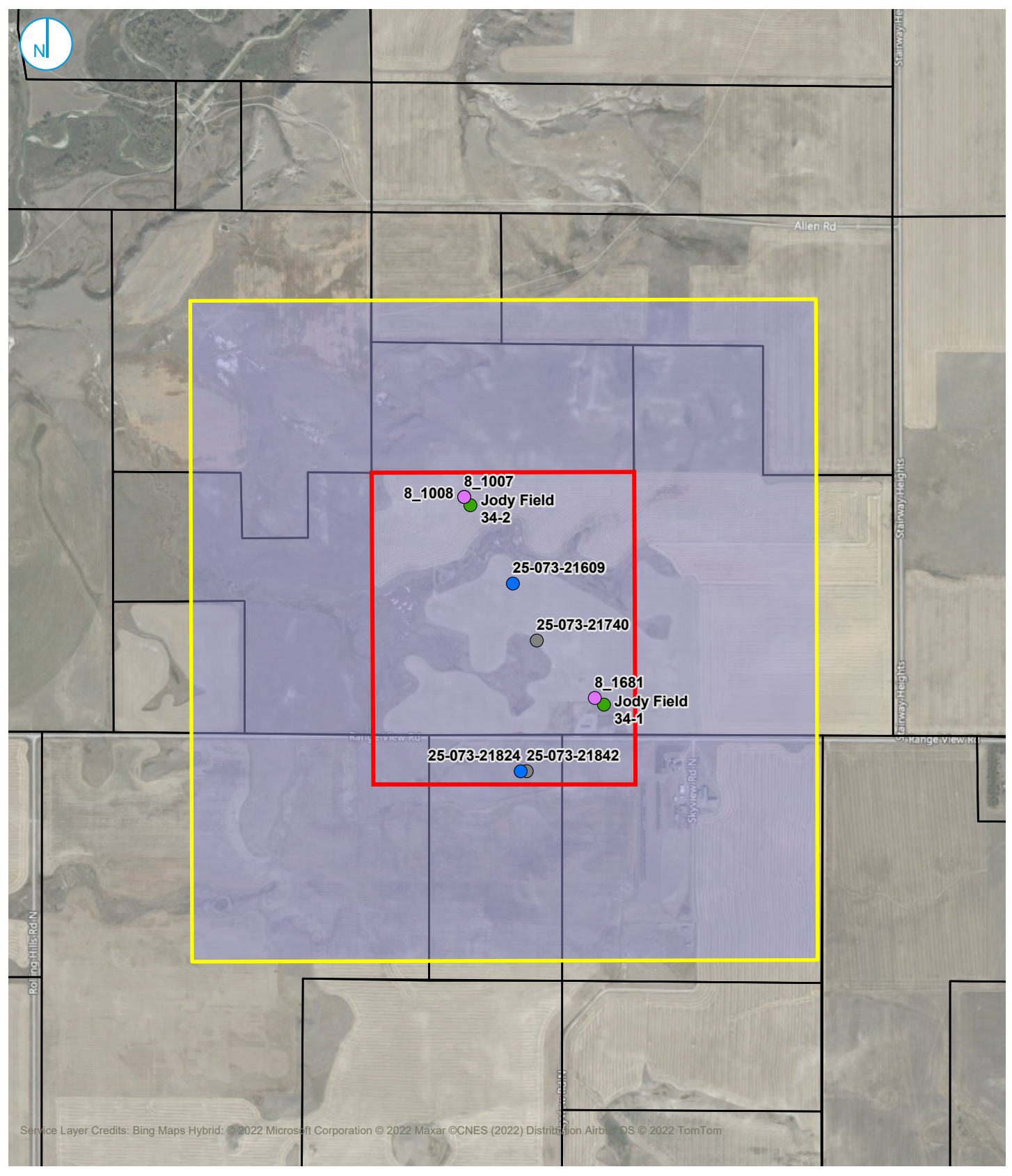
THICKNESS OF UNDERLYING DEVONIAN CONFINING LAYER IN THE AQUIFER EXEMPTION AREA

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION JODY FIELD WELLS

**Attachment H
FIGURE AE.12**

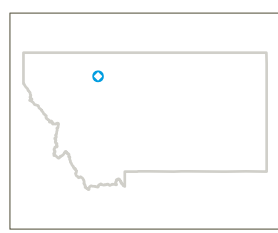
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Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



KEY MAP (not to scale)

- Active Injection
- P&A - Approved
- Shut In
- Aquifer Exemption Location
- Parcel Boundaries
- Area-Wide UIC
- Area of Review
- Aquifer Exemption Area



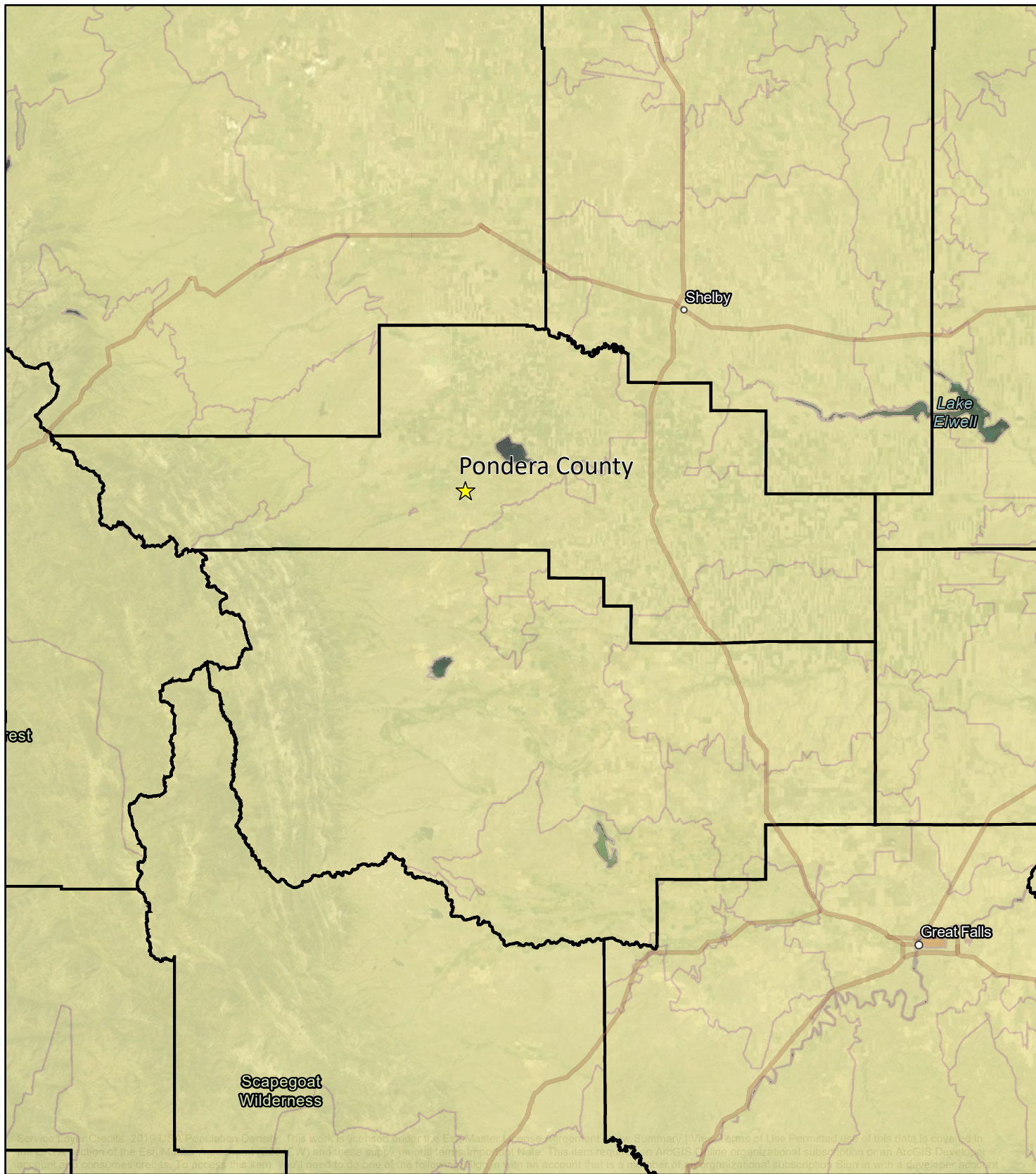
**OIL AND GAS WELLS IN THE
AQUIFER EXEMPTION
BOUNDARY**

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

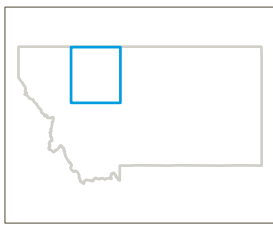
**Attachment H
Figure AE.13**

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KEY MAP (not to scale)

-  Site Location
-  County Lines
-  0 - 1,000 people per sq mi
-  1,000 - 8,400 people per sq mi
-  8,400 - 15,800 people per sq mi
-  15,800 - 24,000 people per sq mi
-  24,000 - 629,000 people per sq mi

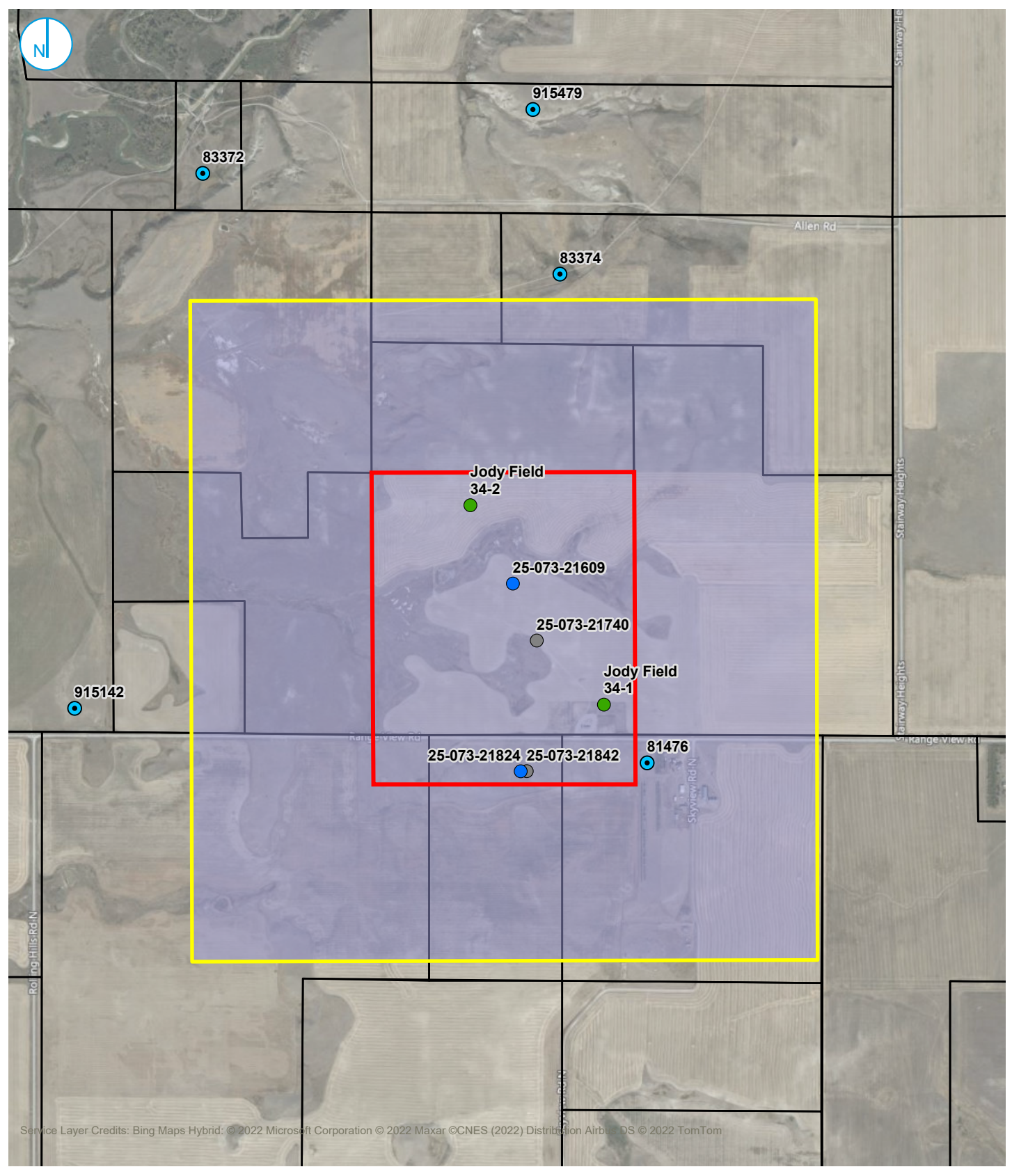
MAP OF PONDERA COUNTY
MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS



Attachment H
Figure AE.14

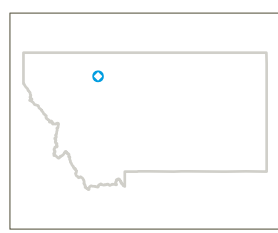
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Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



KEY MAP (not to scale)

- Active Injection
- P&A - Approved
- Shut In
- Water Well Location
- Parcel Boundaries
- Area-Wide UIC
- Area of Review
- Aquifer Exemption Area



PRIVATE AND PUBLIC WATER WELLS

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION JODY FIELD WELLS

Attachment H Figure AE.15

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EXHIBIT A

Water Quality Analyses Wells Jody Field 14-34 and 4-1



ANALYTICAL SUMMARY REPORT

March 11, 2009

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cut Bank, MT 59427

Workorder No.: B09030751

Project Name: Permit

Energy Laboratories Inc received the following 1 sample for Altamont Oil & Gas Inc on 3/10/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B09030751-001	SESW-Section 34-T29N-R6W, Jody Fields #14-34	03/05/09 0:00	03/10/09	Aqueous	Solids, Total Dissolved

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
Project: Permit
Lab ID: B09030751-001
Client Sample ID: SESW-Section 34-T29N-R6W, Jody Fields #14-34

Report Date: 03/11/09
Collection Date: 03/05/09
Date Received: 03/10/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	5440	mg/L		10		A2540 C	03/10/09 16:24 / afb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc

Report Date: 03/11/09

Project: Permit

Work Order: B09030751

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: TDS090310A
Sample ID: MBLK2	Method Blank								Run: CPA124S_090310B 03/10/09 16:23
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10						
Sample ID: LFB2	Laboratory Fortified Blank								Run: CPA124S_090310B 03/10/09 16:23
Solids, Total Dissolved TDS @ 180 C	1090	mg/L	10	99	90	110			
Sample ID: B09030751-001A MS	Sample Matrix Spike								Run: CPA124S_090310B 03/10/09 16:24
Solids, Total Dissolved TDS @ 180 C	7770	mg/L	10	101	80	120			
Sample ID: B09030751-001A MSD	Sample Matrix Spike Duplicate								Run: CPA124S_090310B 03/10/09 16:25
Solids, Total Dissolved TDS @ 180 C	7770	mg/L	10	101	80	120	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc Workorder Receipt Checklist



B09030751

Altamont Oil and Gas Inc

Login completed by: Krystal McDonald

Date and Time Received: 3/10/2009 11:15 AM

Reviewed by: Denise Ruby

Received by: Ig

Reviewed Date: 3/10/2009 12:55:00 PM

Carrier name: Std US Mail

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	15°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None



ANALYTICAL SUMMARY REPORT

December 05, 2007

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cutbank, MT 59427

Workorder No.: B07120154

Project Name: Altamont Jody Fields

Energy laboratories Inc received the following 1 sample from Altamont Oil & Gas Inc on 12/4/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B07120154-001	#4 - 1 Well	12/03/07 12:00	12/04/07	Aqueous	Conductivity Resistivity Salinity

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

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DEC 10 2007
ALTAMONT OIL & GAS, INC



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields
 Lab ID: B07120154-001
 Client Sample ID: #4 - 1 Well

Report Date: 12/05/07
 Collection Date: 12/03/07 12:00
 Date Received: 12/04/07
 Matrix: Aqueous

Analysis	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Salinity	4.69			0.10		Calculation	12/05/07 08:36 / klc
Conductivity	8480	umhos/cm		1		A2510 B	12/04/07 12:01 / kh
Resistivity @ 68 F	1.18	ohm-m		0.04		E120.1	12/05/07 14:45 / klc

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 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc

Report Date: 12/05/07

Project: Altamont Jody Fields

Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2510 B							Batch: PHSCO71204A			
Sample ID: PHC1070910A Conductivity	Laboratory Control Sample 157	umhos/cm	1.0	103	90	110			Run: ORION555A_071204A 12/04/07 08:58	
Sample ID: PHC1070810A Conductivity	Laboratory Control Sample 5120	umhos/cm	1.0	102	90	110			Run: ORION555A_071204A 12/04/07 08:59	
Sample ID: B07120150-001ADUP Conductivity	Sample Duplicate 907	umhos/cm	1.0				0.5	10	Run: ORION555A_071204A 12/04/07 11:57	

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B07120154

Login completed by: Eric L. Frank

Date and Time Received: 12/4/2007 9:15 AM

Reviewed by: Staci Fread

Received by: elf

Reviewed Date: 12/4/2007 8:02:40 PM

Carrier name: UPS NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	14°C
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Contact and Corrective Action Comments:

Letter of instruction provided from client.



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
Project: Altamont Jody Fields
Lab ID: B07120154-001
Client Sample ID: #4 - 1 Well

Report Date: 12/07/07
Collection Date: 12/03/07 12:00
Date Received: 12/04/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Salinity	4.69			0.10		Calculation	12/05/07 08:36 / klc
Conductivity	8480	umhos/cm		1		A2510 B	12/04/07 12:01 / kh
Resistivity @ 68 F	1.18	ohm-m		0.04		E120.1	12/05/07 14:45 / klc

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

January 03, 2008

Patrick Montalban
 Altamont Oil & Gas Inc
 PO Box 488
 Cutbank, MT 59427

Workorder No.: B07120154

Project Name: Altamont Jody Fields

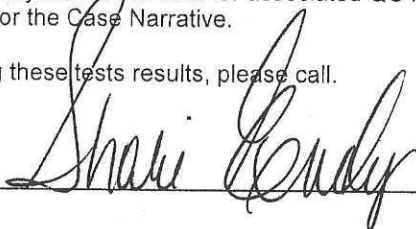
Energy Laboratories Inc received the following 1 sample from Altamont Oil & Gas Inc on 12/4/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B07120154-001	#4 - 1 Well	12/03/07 12:00	12/04/07	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Anions by ion chromatography Conductivity Specific Gravity pH Preparation, Dissolved Filtration Resistivity ROF report format Salinity Solids, Total Dissolved - Calculated

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



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JAN 14 2008

ALTAMONT OIL & GAS, INC



Company: Altamont Oil & Gas Inc	Date: 1/3/2008
Field: Altamont Jody Fields	Sample Date: 12/3/2007
County: 0	Formation:
Location: #4 - 1 Well	Rock Type:
Lab ID: B07120154-001	Depth:
Comments:	

Water Analysis Report

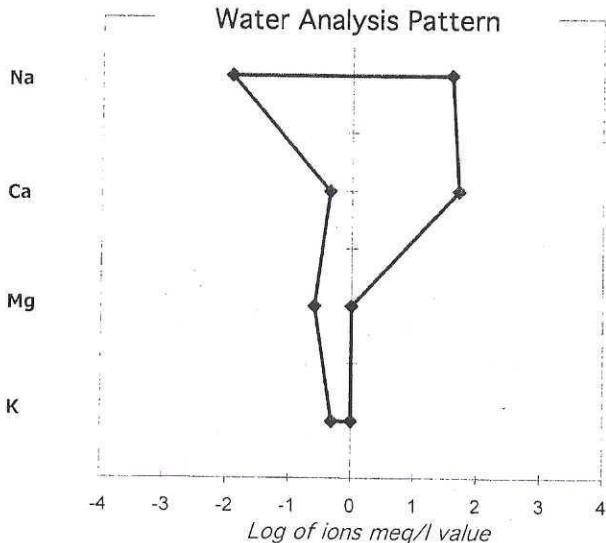
<u>CATIONS</u>	<u>mg/l</u>	<u>meq/l</u>	<u>ANIONS</u>	<u>mg/l</u>	<u>meq/l</u>
Potassium	81	2.07	Sulfate	25	0.52
Sodium	1,970	85.69	Chloride	1,380	38.92
Calcium	45	2.25	Carbonate	<1	0.00
Magnesium	48	3.95	Bicarbonate	3,120	51.15
Iron	nd	nd	Bromide	nd	nd
Barium	nd	nd	Organic Acids	nd	nd
Strontium	nd	nd	Hydroxide	<1	0.00
SUM +	2,144	93.96	SUM -	4,525	90.59

<u>Solids</u>	<u>mg/l</u>	<u>meq/l</u>	<u>Sample Conditions</u>	<u>mg/l</u>	<u>meq/l</u>
Total Dissolved Solids @180°C	nd	mg/l	pH, s.u. (Field)	7.50	s.u.
Total Solids, Calculated	5,109	mg/l	Sample Pressure	14.70	psia
Total Solids, NaCl equivalents	4,298	mg/l	Surface Temp	70.00	°F
Chloride as NaCl	2,275	mg/l	Downhole Temp	na	°F
NaCl, % of Total Dissolved Solids	44.52	%	Ionic Strength	0.096	µ
Accuracy	-2.23	Sigma			

<u>Dissolved Gases</u>	<u>mg/l</u>	<u>meq/l</u>	<u>Sample Conditions</u>	<u>mg/l</u>	<u>meq/l</u>
Bisulfide ion	nd	mg/l	Dissolved O ₂ , aq	nd	meq/l
Hydrogen Sulfide	nd	mg/l	Total CO ₂ , aq	2,427	mg/l
Total Sulfide	nd	mg/l			

<u>Other Properties</u>	<u>mg/l</u>	<u>meq/l</u>	<u>Scaling Conditions</u>	<u>mg/l</u>	<u>meq/l</u>
Calcium Hardness as CaCO ₃	112	mg/l	Calcium Carbonate	CaCO ₃ +	meq/l
Magnesium Hardness as CaCO ₃	198	mg/l	Calcium Sulfate	CaSO ₄ - - -	meq/l
Total Hardness as CaCO ₃	310	mg/l	Barium Sulfate	BaSO ₄ -	meq/l
			Strontium Sulfate	SrSO ₄ -	meq/l
			Specific Gravity	1.007	measured
			Specific Gravity	1.005	calculated
			Resistivity, 68°F	1.18	ohm-m
			Conductivity 25°C	8,480	umhos/cm

<u>Microbiological</u>	<u>mg/l</u>	<u>meq/l</u>	<u>Scaling Conditions</u>	<u>mg/l</u>	<u>meq/l</u>
Sulfate Reducing	nd	mg/l	Calcium Carbonate	CaCO ₃ +	meq/l
Aerobic Bacteria	nd	mg/l	Calcium Sulfate	CaSO ₄ - - -	meq/l
			Barium Sulfate	BaSO ₄ -	meq/l
			Strontium Sulfate	SrSO ₄ -	meq/l



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JAN 14 2008

Probable Mineral Residue, Dry
 Calculation error = -3.7 %
 ALTAMONT OIL & GAS, I

<u>COMPOUND</u>	<u>mg/l</u>
NaHCO ₃	3,705
NaCl	2,275
Mg(HCO ₃) ₂	289
Ca(HCO ₃) ₂	182
Na ₂ SO ₄	37.0

Note: nd denotes 'Not Determined'



QA/QC Summary Report

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: ALK071220A		
Sample ID: MBLK	Method Blank								
Alkalinity, Total as CaCO3	2	mg/L	1						
Bicarbonate as HCO3	2	mg/L	1						
Carbonate as CO3	ND	mg/L	1						
Hydroxide as OH	ND	mg/L	1						
Sample ID: LCS	Laboratory Control Sample								
Alkalinity, Total as CaCO3	97.7	mg/L	1.0	96	90	110			
Sample ID: B07121500-001ADUP	Sample Duplicate								
Alkalinity, Total as CaCO3	2080	mg/L	1.0				4.5	20	
Bicarbonate as HCO3	2540	mg/L	1.0				4.5	20	
Carbonate as CO3	ND	mg/L	1.0				0.0	20	
Hydroxide as OH	ND	mg/L	1.0				0.0	20	
Method: A2510 B							Batch: PHSC071204A		
Sample ID: PHC1070910A	Laboratory Control Sample								
Conductivity	157	umhos/cm	1.0	103	90	110			
Sample ID: PHC1070810A	Laboratory Control Sample								
Conductivity	5120	umhos/cm	1.0	102	90	110			
Sample ID: B07120150-001ADUP	Sample Duplicate								
Conductivity	907	umhos/cm	1.0				0.5	10	
Method: A4500 H							Analytical Run: ORION555A_071220B		
Sample ID: PHC1071130A	Initial Calibration Verification Standard								
pH	7.01	s.u.	0.10	100	98	102			
Method: A4500 H							Batch: PHSC071220A		
Sample ID: B07121618-003ADUP	Sample Duplicate								
pH	7.76	s.u.	0.10				1.2	10	

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JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: 30333		
Sample ID: MB-30333	Method Blank		Run: ICP202-B_071227A				12/27/07 11:51		
Calcium	0.04	mg/L	0.009						
Magnesium	ND	mg/L	0.01						
Potassium	0.03	mg/L	0.02						
Sodium	ND	mg/L	0.1						
Sample ID: B07121574-001BMS2	Sample Matrix Spike		Run: ICP202-B_071227A				12/27/07 12:06		
Calcium	92.7	mg/L	1.0	97	70	130			
Magnesium	67.5	mg/L	1.0	101	70	130			
Potassium	53.0	mg/L	1.0	103	70	130			
Sodium	59.6	mg/L	1.0	103	70	130			
Sample ID: B07121574-001BMSD2	Sample Matrix Spike Duplicate		Run: ICP202-B_071227A				12/27/07 12:09		
Calcium	93.3	mg/L	1.0	98	70	130	0.7	20	
Magnesium	67.3	mg/L	1.0	100	70	130	0.3	20	
Potassium	53.2	mg/L	1.0	104	70	130	0.4	20	
Sodium	60.2	mg/L	1.0	105	70	130	1.0	20	
Method: E200.7							Analytical Run: ICP202-B_071227A		
Sample ID: QCS	Initial Calibration Verification Standard						12/27/07 10:09		
Calcium	50.1	mg/L	1.0	100	90	110			
Magnesium	49.0	mg/L	1.0	98	90	110			
Potassium	50.7	mg/L	1.0	101	90	110			
Sodium	50.5	mg/L	1.0	101	90	110			

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0							Analytical Run: IC202-B_071221A			
Sample ID: ICV	Initial Calibration Verification Standard						12/21/07 10:02			
Chloride	25.2	mg/L	1.0	101	90	110				
Sulfate	101	mg/L	1.0	101	90	110				
Method: E300.0							Batch: R104331			
Sample ID: ICB	Method Blank						Run: IC202-B_071221A 12/21/07 10:14			
Chloride	0.04	mg/L		0.03						
Sulfate	ND	mg/L		0.06						
Sample ID: LFB	Laboratory Fortified Blank						Run: IC202-B_071221A 12/21/07 10:26			
Chloride	9.27	mg/L	1.0	92	90	110				
Sulfate	37.2	mg/L	1.0	93	90	110				
Sample ID: B07120154-001AMS	Sample Matrix Spike						Run: IC202-B_071221A 12/21/07 11:35			
Chloride	2580	mg/L	1.5	96	90	110				
Sulfate	4890	mg/L	3.1	97	90	110				
Sample ID: B07120154-001AMSD	Sample Matrix Spike Duplicate						Run: IC202-B_071221A 12/21/07 11:47			
Chloride	2560	mg/L	1.5	94	90	110	0.9	20		
Sulfate	4850	mg/L	3.1	97	90	110	0.8	20		

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B07120154

Log in completed by: Eric L. Frank

Date and Time Received: 12/4/2007 9:15 AM

Reviewed by: Staci Fread

Received by: elf

Reviewed Date: 12/4/2007 8:02:40 PM

Carrier name: UPS NDA

- | | | | |
|---|---|--|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | 14°C |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

Letter of instruction provided from client.

RECEIVED
 JAN 14 2008
 ALTAMONT OIL & GAS, INC



**** REPORT ****

Altamont Oil & Gas Inc
Patrick Montalban
PO Box 488
Cutbank MT 59427

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

1/15/2008

Dallig 6037
Altamont Field 41



LABORATORY ANALYTICAL REPORT

Client: MCR LLC
 Project: Berthelote Water Disposal
 Lab ID: B08042696-002
 Client Sample ID: Disp System

Report Date: 05/06/08
 Collection Date: 04/24/08 06:45
 Date Received: 04/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	3220	mg/L		10		A2540 C	04/25/08 13:39 / afb
IN ORGANICS							
Alkalinity, Total as CaCO3	2010	mg/L		1		A2320 B	04/25/08 21:40 / kh
Sulfate	159	mg/L		1		E300.0	04/28/08 20:05 / qed
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.14	mg/L		0.05		E353.2	05/02/08 13:39 / bls

Water Sample from #4-1
Less gal Disp 3. gal another
the sample from #11-34 and 1 cell in Fields #11-34 (Fields Water Disposal)

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

Privileged and Confidential

EXHIBIT B

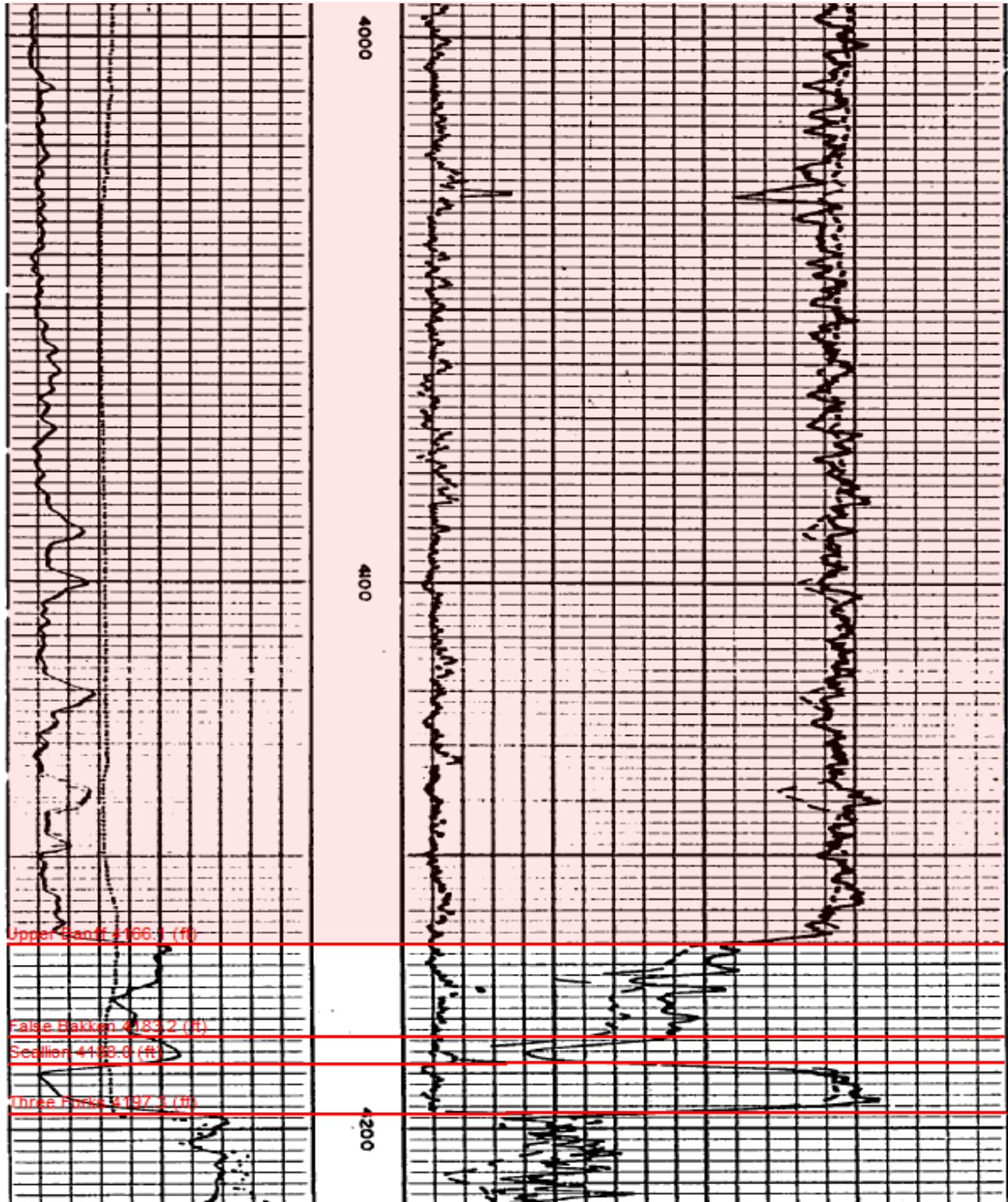
Powers Farm 29-1 Density/Neutron Log

BASAL LODGEPOLE

Porous

Impermeable

POROSITY INDEX (%) — LIME — MATRIX				
COMPENSATED FORMATION DENSITY POROSITY				
45	30	15	0	-15
GR. DENSITY 2.71 GM/CC FLUID DENSITY 1.00 GM/CC				
COMPENSATED NEUTRON POROSITY				
45	30	15	0	-15



POTLATCH

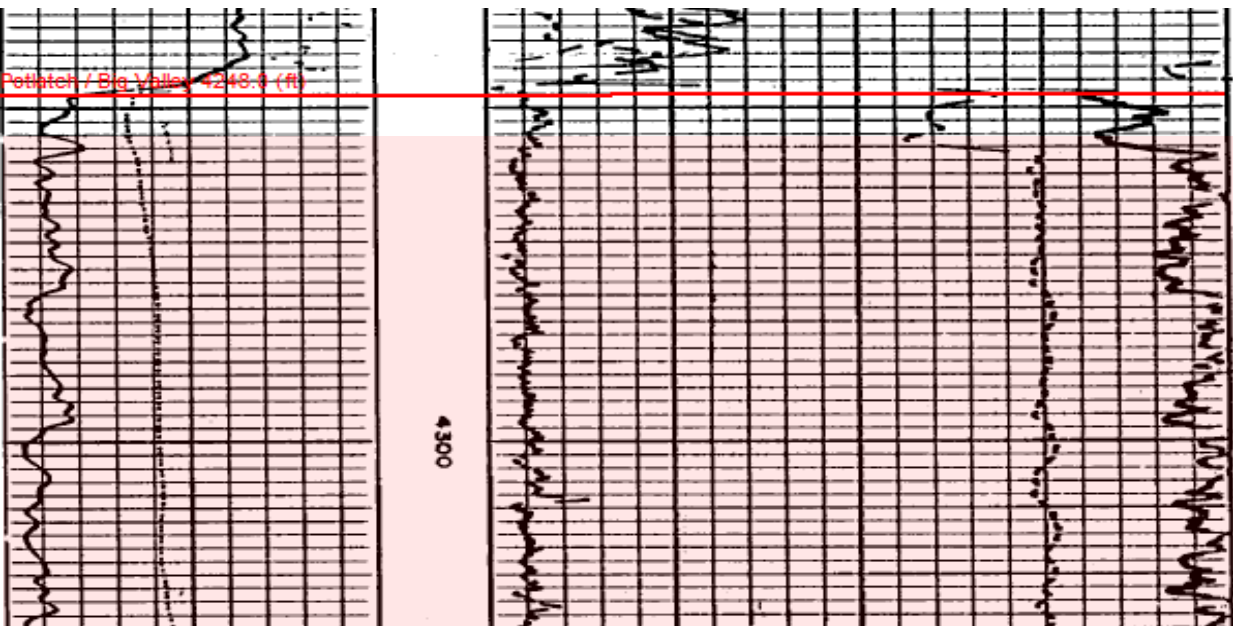
Porous

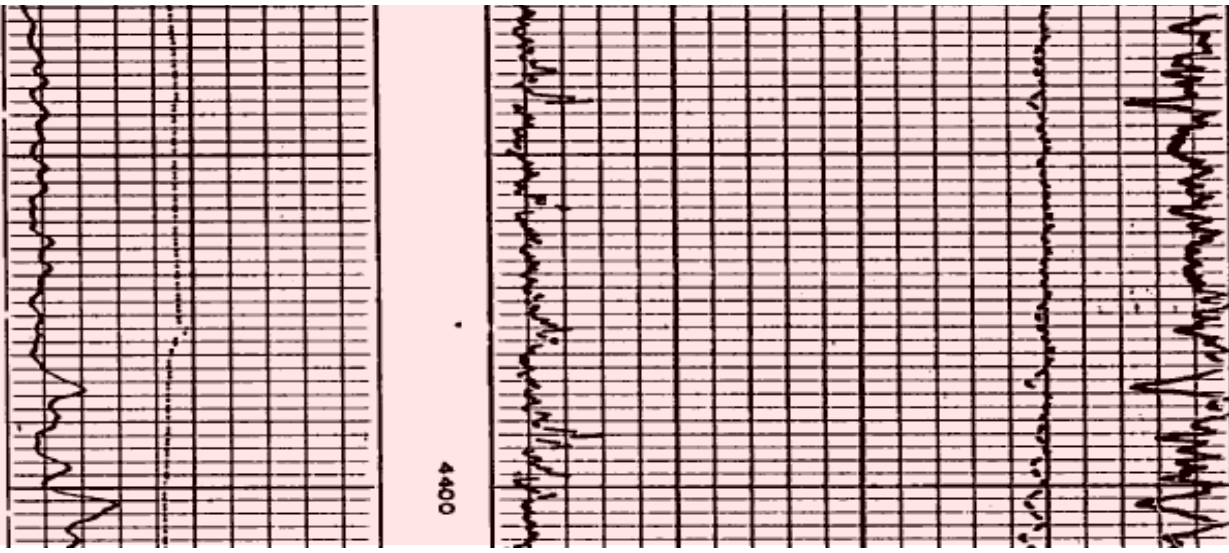
Impermeable

45

LS SCALE

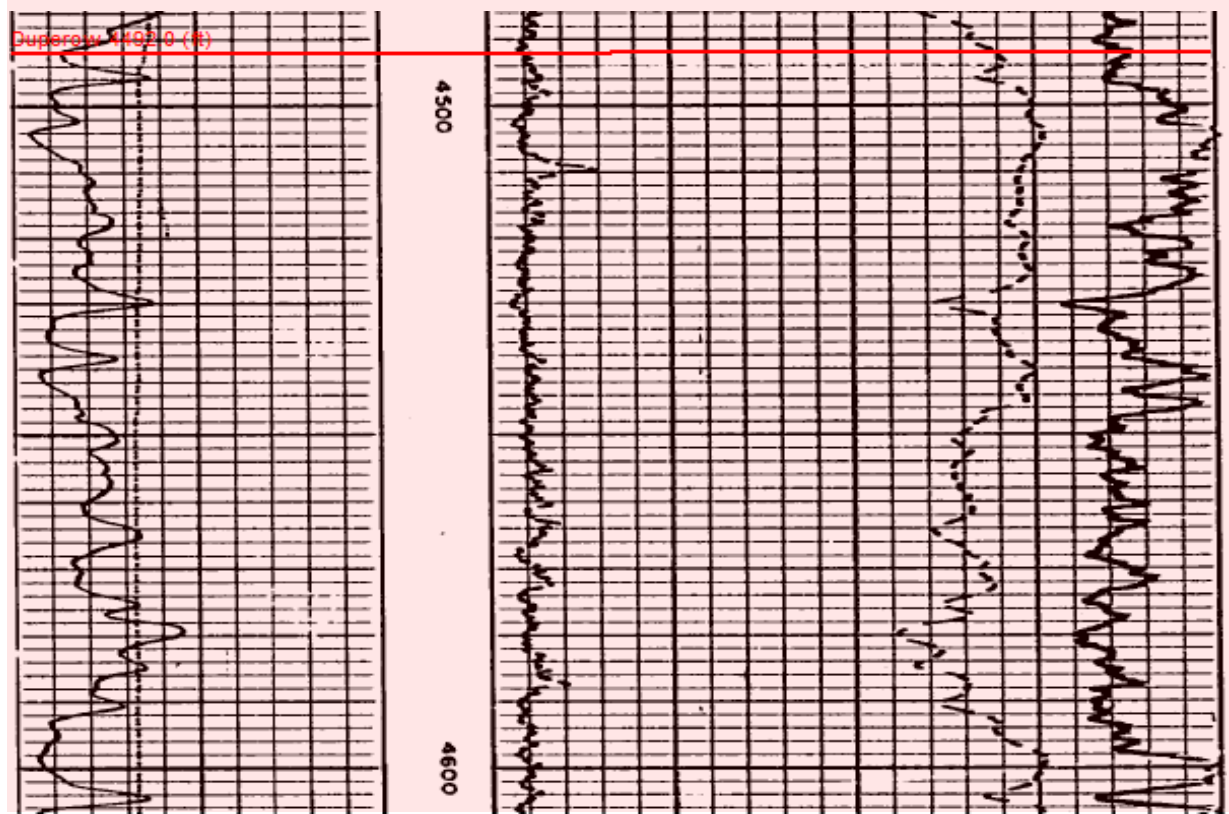
-15





DUPEROW

Porous
Impermiabile
45
LS SCALE
-15



Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment I Existing EPA Permits (40 CFR § 144.31)

DRAFT
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N/A
No EPA Permits to Report

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment J Description of Business (40 CFR § 144.31)

DRAFT
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CONTENTS

1. Montalban Oil & Gas Operations, Inc. Description of Business	2
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DRAFT
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1. MONTALBAN OIL & GAS OPERATIONS, INC. DESCRIPTION OF BUSINESS

Montalban Oil & Gas Operations, Inc. (Montalban) is located in Pondera County, Montana, approximately 90 miles north of Great Falls, Montana. Montalban has successfully operated underground injection control (UIC) wells in Pondera County for over 11 years. Montalban has applied to EPA for an Area-Wide UIC Class V permit for injection of industrial wastewater into the Mississippian Madison Aquifer, an Underground Source of Drinking Water (USDW) for which an Aquifer Exemption has been requested. The area-wide UIC permit includes initial conversion of two (2) existing Class II UIC wells to Class V UIC wells and conversion at a future date of two (2) shut-in oil and gas wells to Class V UIC Wells.

Montalban is planning to receive industrial wastewater from Montana Renewables, a renewable fuels refinery located in Great Falls, Montana. Montana Renewables is a leader in the renewable energy transition, processing renewable feedstocks (such as seed oils, used cooking oil, and tallow) into low-emission sustainable alternatives that directly replace fossil fuel products. The refinery is scheduled to commence operations in 2022, with wastewater discharge commencing the First Quarter of 2023. Permitting injection of its wastewater into the proposed Class V UIC wells will support Montana Renewables in leading Montana's energy transition.

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MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment K Optional Additional Project Information (40 CFR § 144.4)

DRAFT
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N/A
No Additional
Information to Report



United States Environmental Protection Agency
Underground Injection Control
Permit Application for a Class V Well
(Collected under the authority of the Safe Drinking Water Act. Sections 1421, 1422, and 40 CFR Part 144)

For Official Use Only

Date Received

Permit Number

Read Attached Instructions Before Starting

I. Owner Name, Address, Phone Number and/or Email		II. Operator Name, Address, Phone Number and/or Email	
Montalban Oil & Gas Operations, Inc 33 - 1st Avenue SW Cut Bank, Montana 59427 (406) 873-2845 montemontalban@gmail.com		Montalban Oil & Gas Operations, Inc 33 - 1st Avenue SW Cut Bank, Montana 59427 (406) 873-2845 montemontalban@gmail.com	
III. Commercial Facility	IV. Ownership	V. Permit Action Requested	VI. SIC Code(s)
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Private <input type="checkbox"/> Federal <input type="checkbox"/> State/Tribal/Municipal	<input checked="" type="checkbox"/> New Permit <input type="checkbox"/> Permit Renewal <input type="checkbox"/> Modification <input type="checkbox"/> Add Well to Area Permit <input type="checkbox"/> Other	Non Classified
VII. Indian Country			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
VIII. Type of Permit (For multiple wells, use additional page(s) to provide the information requested for each additional well)			
<input type="checkbox"/> A. Individual <input checked="" type="checkbox"/> B. Area	Number of Wells 2	Well Field and/or Project Names Jody Field UIC Class II Well Conversion (Jody Field 34-1 and Jody Field 34-2)	
IX. Class and Type of Well (see reverse)			
A. Class V	B. Type (enter code(s)) J	C. If type code is "X," explain.	
X. Well Status		XI. Well Information	
<input checked="" type="checkbox"/> A. Operating Date Injection Started: 08/16/2011		<input type="checkbox"/> B. Conversion Date Well Constructed: 05/06/2008	
<input type="checkbox"/> C. Proposed		API Number: 25-073-21830 Permit (or EPA ID) Number: MT5282 Full Well Name: Jody Field 34-1	
XII. Location of Well or, for Multiple Wells, Approximate Center of Field or Project			
Locate well in two directions from nearest lines of quarter section and drilling unit Surface Location SW 1/4 of SW 1/4 of Section 34 Township 29N Range 6W 330 ft. from (N/S) S Line of quarter section 2310 ft. from (E/W) W Line of quarter section.		Latitude: 48°13'22" N Longitude: 112°22'16" W	
XIII. Attachments			
In addition to this form, complete Attachments A-U (as appropriate for the specific well class) on separate sheets. Submit complete information, as required in the instructions and list all attachments, maps or other figures, by the applicable letter.			
XIV. Certification			
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)			
Name and Official Title (Please Type or Print) Patrick M. Montalban		Signature 	Date Signed 10/11/22



United States Environmental Protection Agency
Underground Injection Control
Permit Application for a Class V Well
(Collected under the authority of the Safe Drinking Water Act. Sections 1421, 1422, and 40 CFR Part 144)

For Official Use Only

Date Received

Permit Number

Read Attached Instructions Before Starting

I. Owner Name, Address, Phone Number and/or Email

Montalban Oil & Gas Operations, Inc
 33 - 1st Avenue SW
 Cut Bank, Montana 59427
 (406) 873-2845
 montemontalban@gmail.com

II. Operator Name, Address, Phone Number and/or Email

Montalban Oil & Gas Operations, Inc
 33 - 1st Avenue SW
 Cut Bank, Montana 59427
 (406) 873-2845
 montemontalban@gmail.com

III. Commercial Facility

Yes
 No

IV. Ownership

Private
 Federal
 State/Tribal/
 Municipal

V. Permit Action Requested

New Permit
 Permit Renewal
 Modification
 Add Well to Area Permit
 Other

VI. SIC Code(s)

Non Classified

VII. Indian Country

Yes
 No

VIII. Type of Permit (For multiple wells, use additional page(s) to provide the information requested for each additional well)

A. Individual
 B. Area

Number of Wells
 2

Well Field and/or Project Names

Jody Field UIC Class II Well Conversion (Jody Field 34-1 and Jody Field 34-2)

IX. Class and Type of Well (see reverse)

A. Class
 V

B. Type (enter code(s))
 J

C. If type code is "X," explain.

X. Well Status

A. Operating
 B. Conversion
 C. Proposed
 Date Injection Started: 03/15/2010
 Date Well Constructed: 09/08/2008

XI. Well Information

API Number: 25-073-21838
 Permit (or EPA ID) Number: MT5253
 Full Well Name: Jody Field 34-2

XII. Location of Well or, for Multiple Wells, Approximate Center of Field or Project

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location

NW 1/4 of SW 1/4 of Section 34 Township 29N Range 6W

2310 ft. from (N/S) S Line of quarter section
 990 ft. from (E/W) W Line of quarter section.

Latitude: 48°13'42" N

Longitude: 112°22'36" W

XIII. Attachments

In addition to this form, complete Attachments A-U (as appropriate for the specific well class) on separate sheets. Submit complete information, as required in the instructions and list all attachments, maps or other figures, by the applicable letter.

XIV. Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR § 144.32)

Name and Official Title (Please Type or Print)

Patrick M. Montalban

Signature

Date Signed

10/11/22

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment A Map(s) and Area of Review

Privileged and Confidential

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Figure 02. Topographic Map
Figure 03. Jody Field 34-1 Well Schematic
Figure 04. Jody field 34-2 Well Schematic

EXHIBITS

Exhibit A. Montana BOGC Well Record

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1. WELL LOCATIONS (40CFR § 144.3)

Montalban Oil & Gas Operations, Inc (Montalban) is submitting this area-wide underground injection control (UIC) permit application to USEPA Region 8 for conversion of two (2) existing Class II UIC wells and two (2) shut-in oil and gas wells to Class V UIC wells. The wells will be used for injection of industrial wastewater received from the Montana Renewables Fuels Refinery in Great Falls, Montana. The wells are located in the Loneman Coulee Oil Field north of Great Falls in Pondera County, Montana (**Figure 01**).

This application involves a phased approach with initial conversion of the two existing Class II wells and subsequent conversion of the two shut-in oil and gas wells, at a later date, to accommodate future wastewater volumes from the refinery.

The wells included in this area-wide application are listed in **Table 1** below. Wellbore schematics for Jody Field Wells 34-1 and 34-2 are included in **Figures 03 and 04**, respectively.

TABLE 1. Area-Wide Permit Application UIC Wells							
Well Name	API #	Well Owner	Well Operator	Well Coordinates	Well Depth (ft)	Injection Formation	Injection Interval (ft bls)
Jody Field 34-1	25-073-21830	Montalban	Montalban	48°13'31" N 112°22'26" W	3,538	Madison/ Sun River Dolomite	3,428- 3,538
Jody Field 34-2	25-073-21838	Montalban	Montalban	48°13'22" N 112°22'16" W	3,499	Madison/ Sun River Dolomite	3,418- 3,499
Jody Field 14-34	25-073-21740	Montalban	Montalban	48° 13'29" N 112° 22'27" W	3,415	Madison/ Sun River Dolomite	TBD
Jody Field 4-1A	25-073-21842	Montalban	Montalban	48° 13'16" N 112° 22'29" W	3,462	Madison/Su n River Dolomite	TBD

As illustrated on **Figure 01**, the area-wide UIC permit boundary was drawn to include the proposed Class V UIC wells within the Loneman Coulee Field. The GIS coordinates of each corner of the area-wide permit boundary are as follows.

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TABLE 2. Area Wide UIC Permit Boundary GIS Coordinates		
Corner	X Coordinate	Y Coordinate
NorthWest	-12510984.7968	6145834.8807
NorthEast	-12508131.2437	6145842.5415
SouthEast	-12508123.1499	6142827.6853
SouthWest	-12510976.7030	6142820.0245

2. AREA OF REVIEW SIZE DETERMINATION (40 CFR § 146.6)

An Area of Review (AoR) was established for the area-wide permit based on a delineated radius of 1/2 mile from the mapped area-wide boundary (**Figure 01**).

3. MAP(S) (40 CFR § 144.31)

Figure 02 includes a topographic map extending over one mile beyond the proposed project boundary. The Figure indicates the location of the proposed Class V injection wells, the area-wide UIC permit boundary, and the applicable AoR. The following features were not found, or known to be within, the mapped AoR:

- outcrops of injection and confining formations;
- surface water intake and discharge structures;
- hazardous waste treatment, storage, or disposal facilities;
- mines (surface and subsurface) and quarries; or
- residences, schools, and hospitals.

Within the extended topographic map area there are six (6) water wells documented, including one within the AoR (**Figure 02**). Details obtained from the MBMG GWIC database regarding the nearby water wells are included in **Table 3**.

TABLE 3. Water Wells Within the Topographic Map Area– Source: Montana Groundwater Information Center (GWIC)					
Well Owner Information	Aquifer	Date Completed	Well ID and Use	Well Depth (ft)	Static Water Level (ft)
Allen, John E. Valier, MT 59486	Sandstone Unit	1/1/1962	#83374 - Agricultural	207	160
Fed Land Bank 1	Unknown	Unknown	#915142 – NA	Unknown	Unknown
Allen 1	Unknown	Unknown	#915479 – NA	Unknown	Unknown
Pondera County Canal & Reservoir Co. Valier, MT 59486	Unknown	1/1/1912	#83372 – Domestic	Unknown	13

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TABLE 3. Water Wells Within the Topographic Map Area– Source: Montana Groundwater Information Center (GWIC)					
Well Owner Information	Aquifer	Date Completed	Well ID and Use	Well Depth (ft)	Static Water Level (ft)
Field, C.W. Jr. Valier, MT 59486	Unknown	1/19/1953	81476	109	17
Fields CW *8 Mi SW Valier Montana	Two Medicine Formation	Unknown	#6412 Domestic/ Stockwater	90	Unknown

4. PART IV. AREA OF REVIEW WELLS AND CORRECTIVE ACTION PLANS (40 CFR § 144.55)

The wells located within the AoR that penetrate the confining zones for the proposed Class V UIC wells are listed in **Table 4** below. These wells include oil and gas wells that are either plugged and abandoned (approved by the Montana BOGC) or shut-in.

TABLE 4. Wells Penetrating the Proposed Confining Zone						
Well Name or Type	API or Water Well #	Well Owner	Well Location	Well Depth (ft)	Formation	Well Status
Field 1-34A	25-073-21609	AltaMont Oil & Gas, Inc.	29N - 6W - 34 NW SW 1700 FSL, 1300 FWL	3,485	Madison	P&A Approved
Field 14-34	25-073-21740	Montalban Oil & Gas Operations, Inc.	29N - 6W - 34 SE SW 990 FSL, 1650 FWL	3,415	Madison	Shut-in
Jody Field 4-1	25-073-21824	AltaMont Oil & Gas, Inc.	28N - 6W - 04 NE NE 330 FNL, 430 FEL	3545	Madison	P&A Approved
Jody Field 4-1A	25-073-21842	Montalban Oil & Gas Operations, Inc.	28N - 6W - 04 NE, 330 FNL, 380 FEL	3,416	Sawtooth	Shut-in

The BOGC well records were researched to determine the availability of construction details, cement bond logs and records of well completion and plugging for each of the above oil and gas wells. The findings are presented in **Table 5** and included in Exhibit A.

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TABLE 5. BOGC Oil and Gas Well Records					
Well	Construction Details	Cement Bond Logs	Record of Well Completion	P&A Records	Confining Unit Penetrated
Field 1-34	Exhibit A	Not Available	Exhibit A	Exhibit A	Jurassic Ellis Group (above Mississippian Madison Aquifer)
Field 14-34	Exhibit A	Exhibit A	Exhibit A	Shut-in	Jurassic Ellis Group (above Mississippian Madison Aquifer)
Jody Field 4-1	Exhibit A	Exhibit A	Exhibit A	Exhibit A	Jurassic Ellis Group (above Mississippian Madison Aquifer)
Jody Field 4-1A	Exhibit A	Not Available	Exhibit A	Shut-in	Jurassic Ellis Group (above Mississippian Madison Aquifer)

5. PART V. LANDOWNER INFORMATION (40 CFR § 144.31 AND PART 147)

The UIC wells are located within the Loneman Coulee Oil Field in Pondera County, Montana. The land within the requested exemption area is used for oil and gas related activities and agriculture. The identities of the landowners within the AoR are provided in **Figure 01** and detailed in **Table 6** below.

TABLE 6. Landowners Within the Aquifer Exemption Area			
Landowner	Owner Address	Parcel #	Use
Field, Jody	5353 Range View Rd. Valier, MT 59486	26-4096-34-4-04-01-0000	Agricultural
Vandenbos, William D & Tamara K JTRos	453 Frances Heights Rd. Valier, MT 59486	26-4096-33-4-01-01-000	Agricultural
Vandenbos, Keith E & Leiha R. JTRos	2475 Seven Block Rd. Valier, MT 59486	26-4096-33-1-01-01-0000	Agricultural
Field, Jody	5353 Range View Rd. Valier, MT 59486	26-4096-34-2-03-03-0000	Agricultural
Field, Jody	5353 Range View Rd. Valier, MT 59486	26-4096-34-1-03-01-0000	Agricultural
Field Ranch Inc.	5353 Range View Rd. Valier, MT 59486	26-3984-03-2-02-02-0000	Agricultural
Field Ranch Inc.	5353 Range View Rd, Dupuyer, MT 59432	26-3984-04-1-01-01-0000	Agricultural
Field Ranch Inc.	5353 Range View Rd. Valier, MT 59486	26-3984-04-2-02-01-0000	Agricultural

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TABLE 6. Landowners Within the Aquifer Exemption Area			
Landowner	Owner Address	Parcel #	Use
Vandenbos, William D & Tamara K JTRos	453 Frances Heights Rd. Valier, MT 59486	26-4096-33-4-01-01-000	Agricultural

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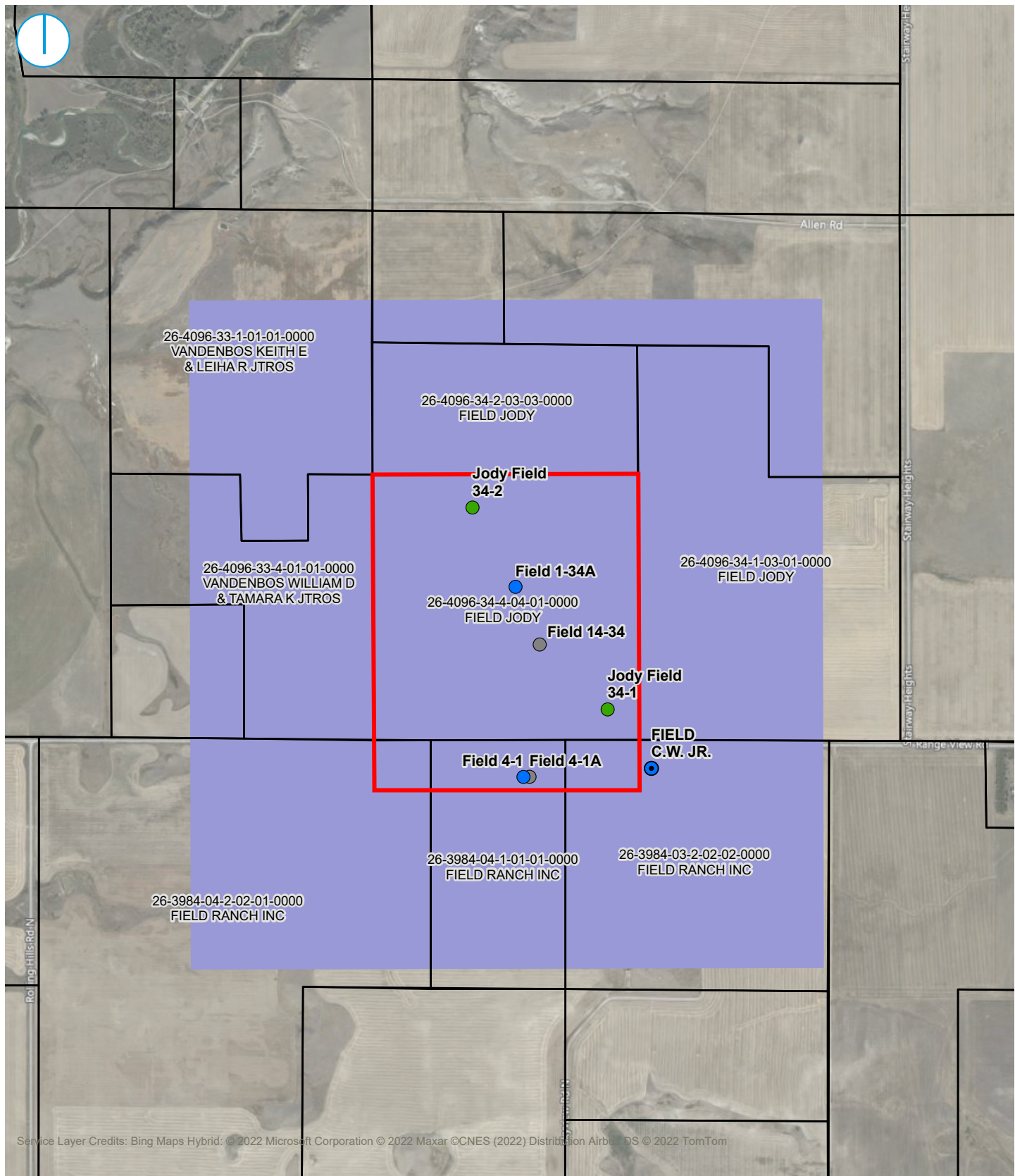
FIGURES

Figure 01. Well Locations, Area-Wide Permit Boundary and Area of Review Location

Figure 02. Topographic Map

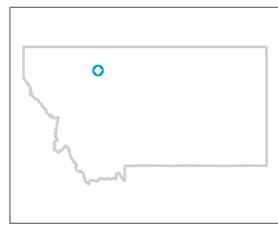
Figure 03. Jody Field 34-1 Well Schematic

Figure 04. Jody Field 34-2 Well Schematic



Service Layer Credits: Bing Maps Hybrid: © 2022 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution Airbus DS © 2022 TomTom

Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



- Active Injection
- P&A - Approved
- Shut In
- Water Well Location
- Parcel Boundaries
- Area- Wide UIC
- Area of Review (AOR)

WELL LOCATIONS, AREA-WIDE PERMIT BOUNDARY, LANDOWNERS AND AREA OF REVIEW LOCATION

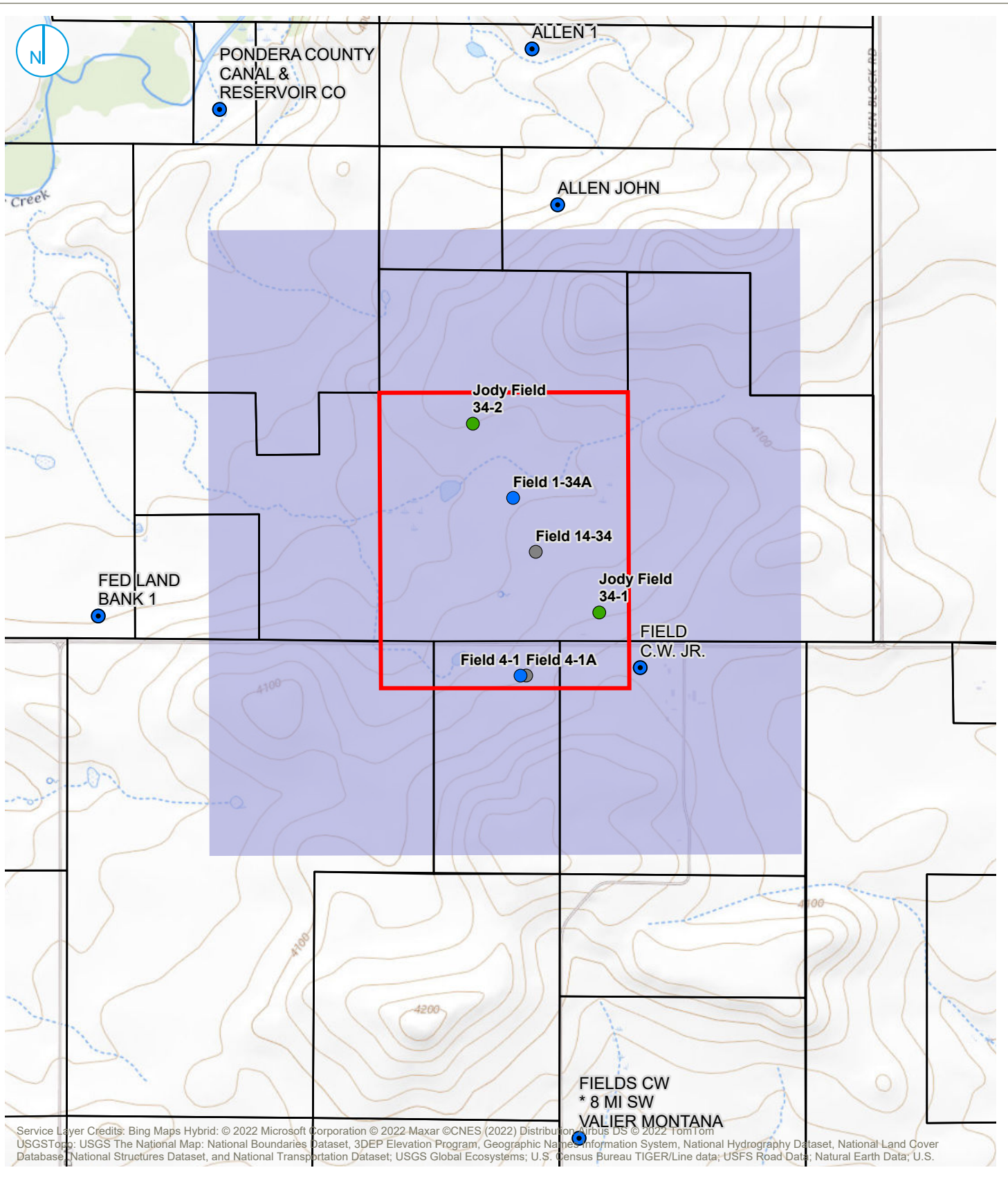
MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS



Attachment A Figure - 01

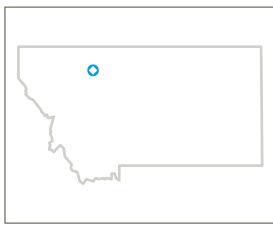
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





Service Layer Credits: Bing Maps Hybrid: © 2022 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution Airbus DS © 2022 TomTom
 USGSTop: USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S.

Map Scale: 1:25,200 | Map Center: 112°22'31"W 48°13'24"N



KEY MAP (not to scale)

- Active Injection
- P&A - Approved
- Shut In
- Water Well Location
- Parcel Boundaries
- Area-Wide UIC
- Area of Review (AOR)



TOPOGRAPHIC MAP WITH THE AREA OF REVIEW
MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment A
Figure - 02

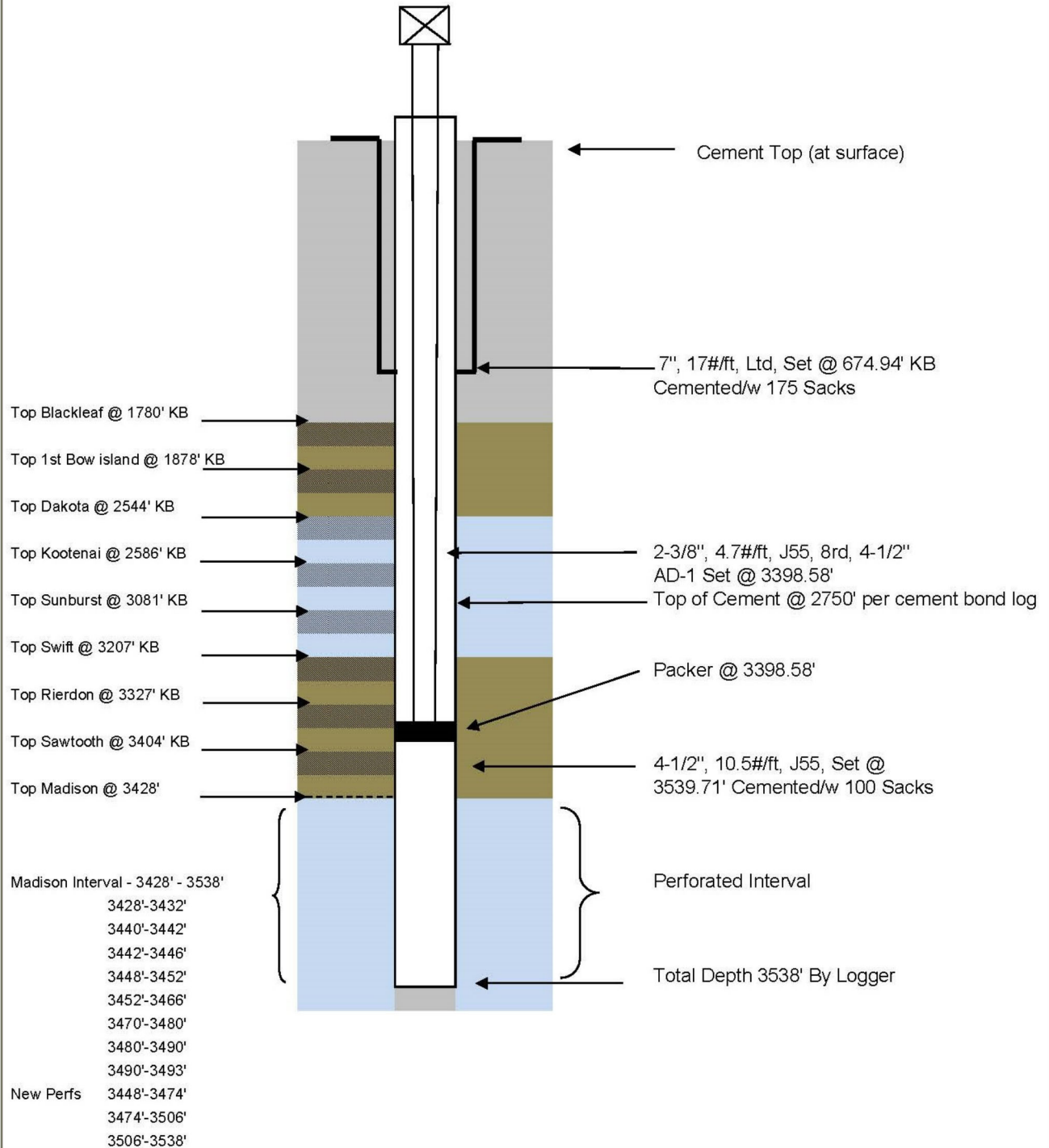
RAMBOLL US CONSULTING, INC.
 A RAMBOLL COMPANY



Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W (330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

SCHEMATIC
After Workover



USDW

Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment A
Figure 03

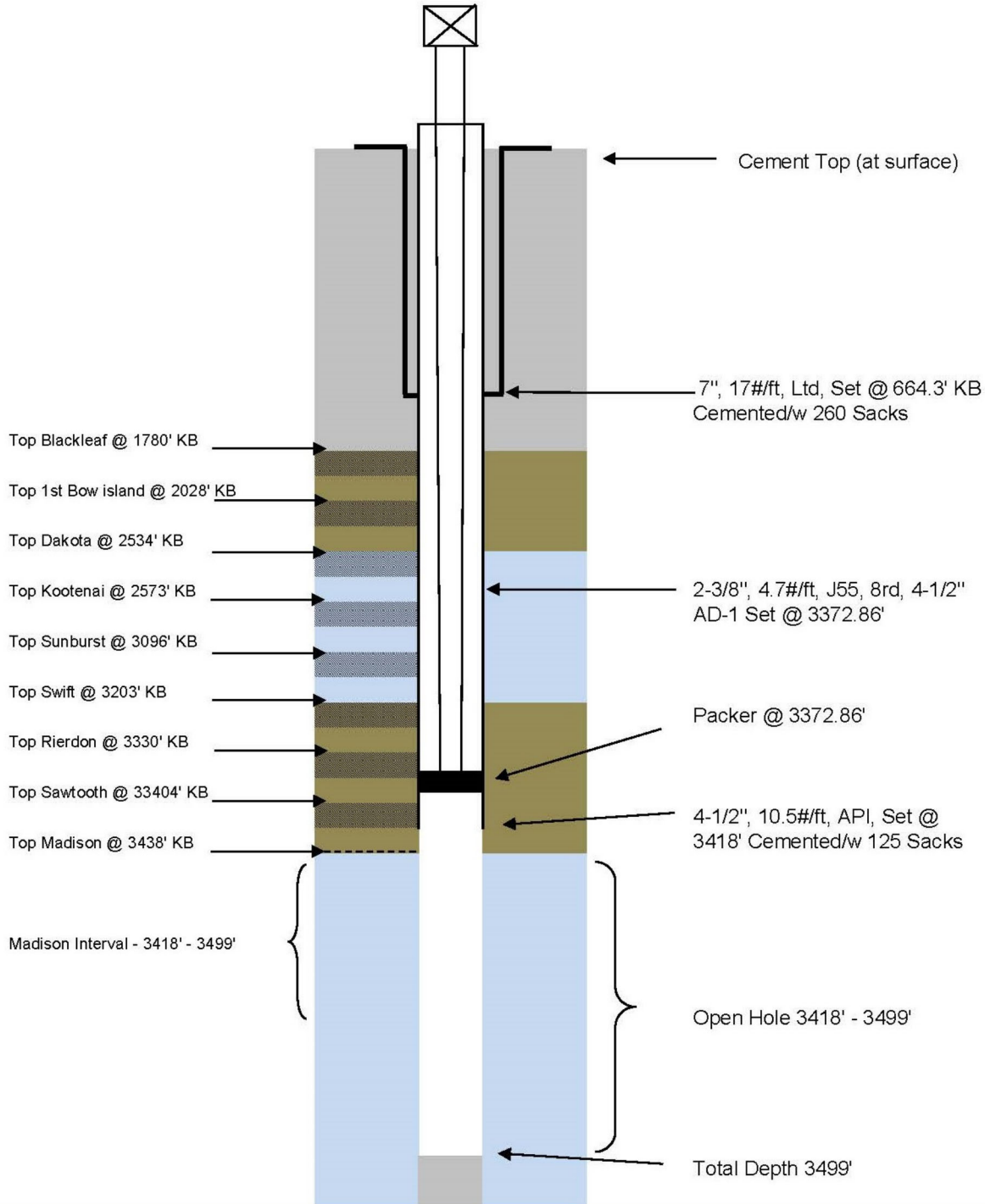
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment A
Figure 04

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



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EXHIBIT A

Montana BOGC Well Records

Company: **ALTAMONT OIL & GAS, INC.**

Well: **JODY FIELD 4-1**

Field: **WILDCAT**

County: **PONDERA**

State: **MONTANA**

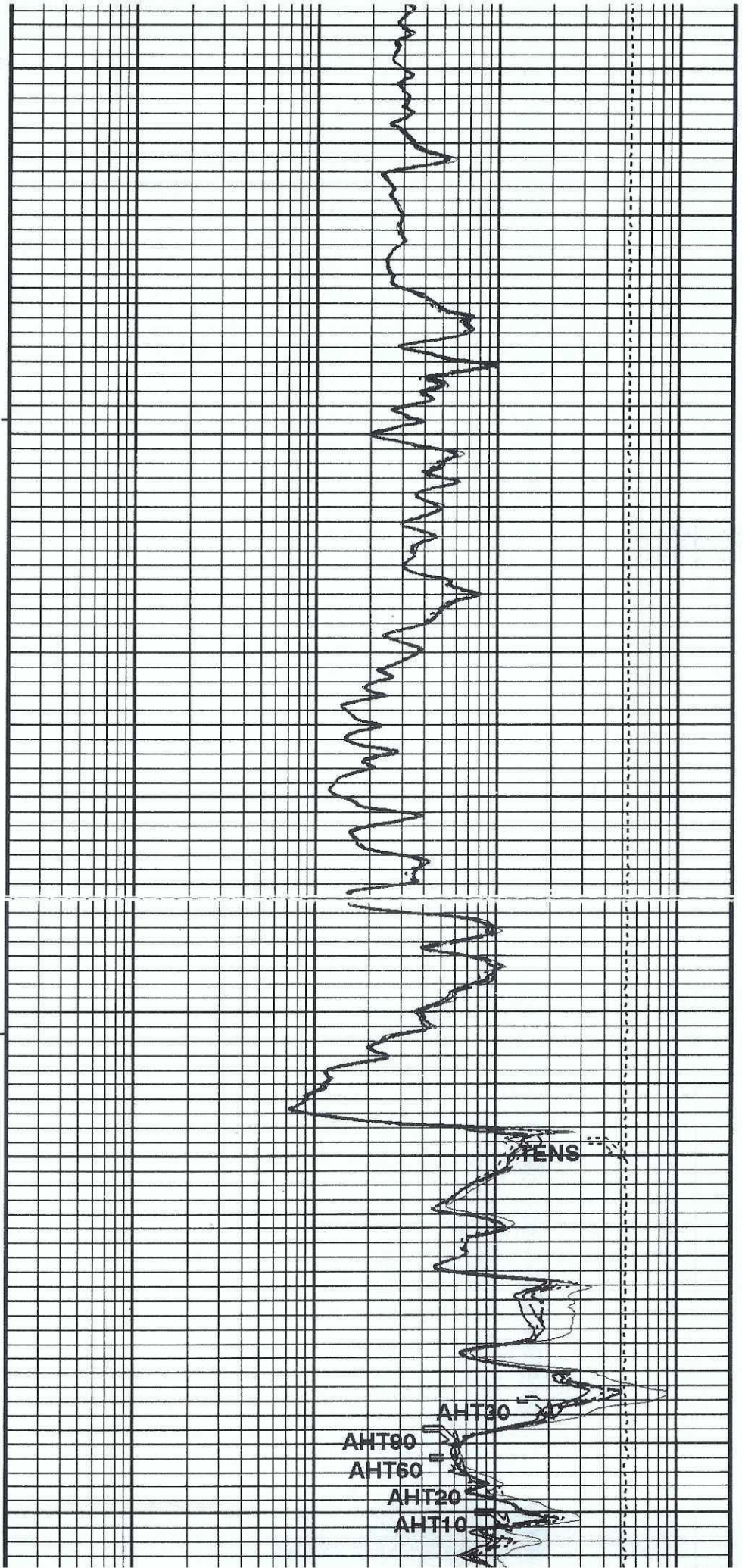
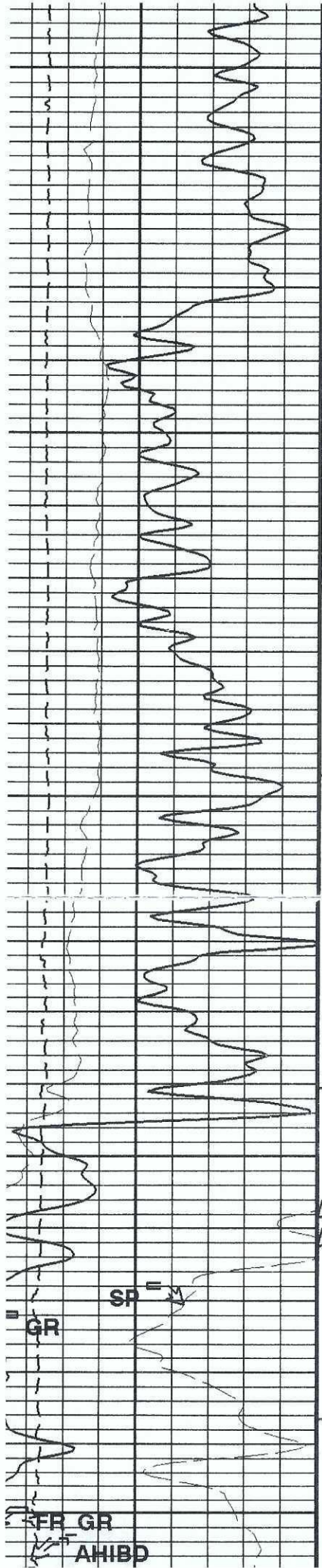
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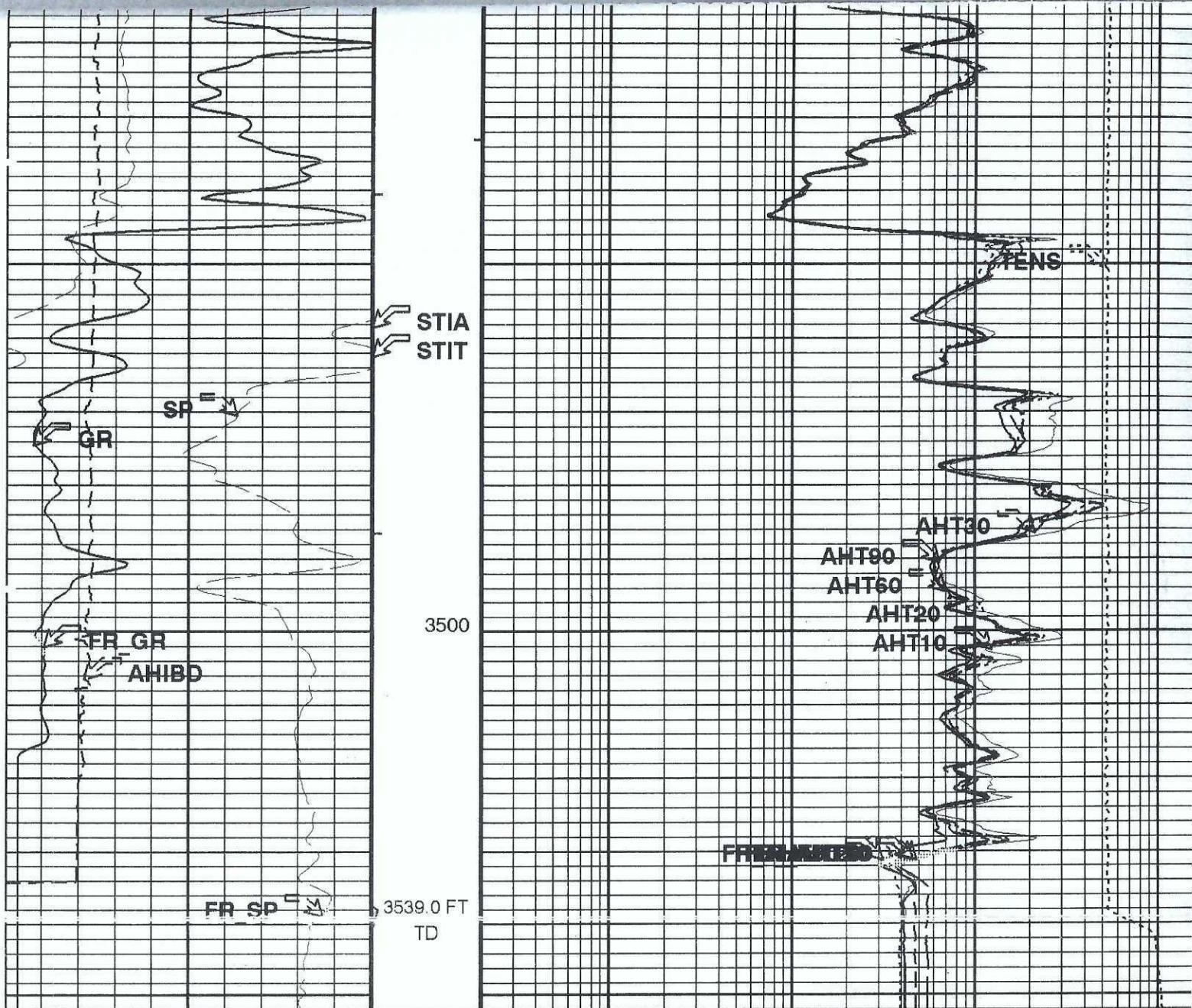
County: **PONDERA**
 Field: **WILDCAT**
 Location: **NENENE SEC 4, T28N, R6W**
 Well: **JODY FIELD 4-1**
 Company: **ALTAMONT OIL & GAS, INC.**

LOCATION			
NENENE SEC 4, T28N, R6W	Elev.: K.B. 4075 ft		
SHL: 330' FNL & 430' FEL	G.L. 4070 ft		
	D.F. 4074 ft		
Permanent Datum:	GROUND LEVEL	Elev.:	4070 ft
Log Measured From:	KELLY BUSHING	5.0 ft	above Perm. Datum
Drilling Measured From:	KELLY BUSHING		
API Serial No. 25-073-21824	Section 4	Township 28N	Range 6W

Logging Date	17-Nov-2007		
Run Number	1		
Depth Driller	3545 ft		
Schlumberger Depth	3539 ft		
Bottom Log Interval	3531 ft		
Top Log Interval	894 ft		
Casing Driller Size @ Depth	7.000 in @ 894 ft		
Casing Schlumberger	894 ft @		
Bit Size	6.250 in		
Type Fluid In Hole	FRESH WATER GEL		
Density	9 lbm/gal	34 s	
Fluid Loss	6 cm3	10	
Source Of Sample	FLOWLINE		
RM @ Measured Temperature	4.040 ohm.m	@	69 degF
RMF @ Measured Temperature	3.232 ohm.m	@	69 degF
RMC @ Measured Temperature	5.280 ohm.m	@	69 degF
Source RMF	CALCULATED	CALCULATED	
RM @ MRT	4.051 @ 69	3.241 @ 69	@ @
Maximum Recorded Temperatures	69 degF		
Circulation Stopped	Time	17-Nov-2007	
Logger On Bottom	Time	17-Nov-2007	16:50
Unit Number	Location	7021	CHINOOK, MT

	Run 1	Run 2	Ru
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Location			





MAIN PASS: AIT 2 FT VERT RES 5 INCH SCALE

-80	SP (SP) (MV)	20	Stuck Stretch (STIT) 0 (F) 50	0.2	AIT-H 10 Inch Investigation (AHT10) (OHMM)	200
4	AIT-H Input Bhole Diameter (AHIBD) (IN)	14	Cable Drag From STIA to STIT	0.2	AIT-H 20 Inch Investigation (AHT20) (OHMM)	200
0	Gamma Ray (GR) (GAPI)	150	Tool/Tot. Drag From D3T to STIA	0.2	AIT-H 60 Inch Investigation (AHT60) (OHMM)	200
				0.2	AIT-H 90 Inch Investigation (AHT90) (OHMM)	200
				0.2	AIT-H 30 Inch Investigation (AHT30) (OHMM)	200
					Tension (TENS)	2000 4 REV

OP System Version: 15C0-309

MCM

.TB-FTB

15C0-309

DTC-H

15C0-309

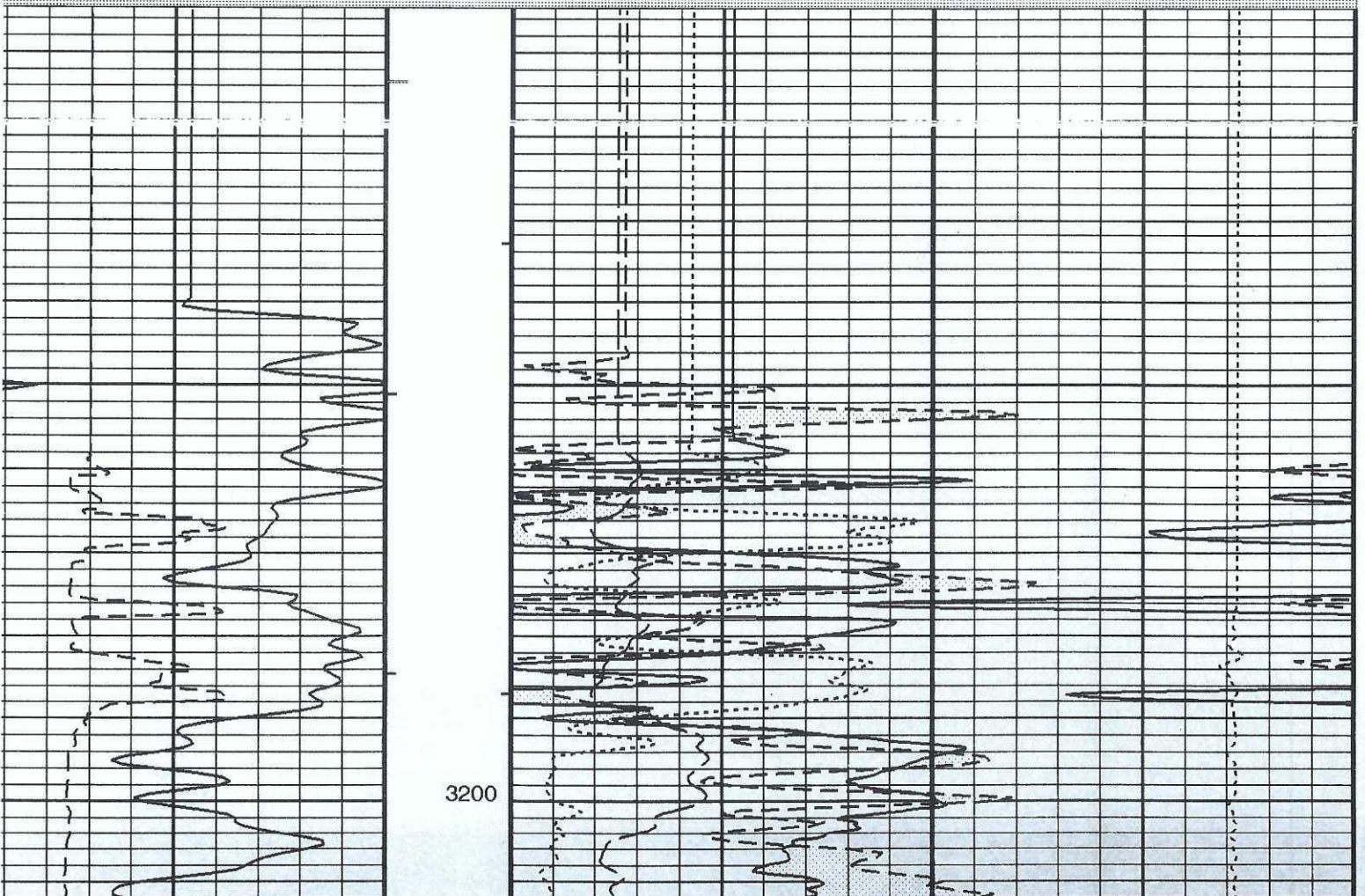
PIP SUMMARY

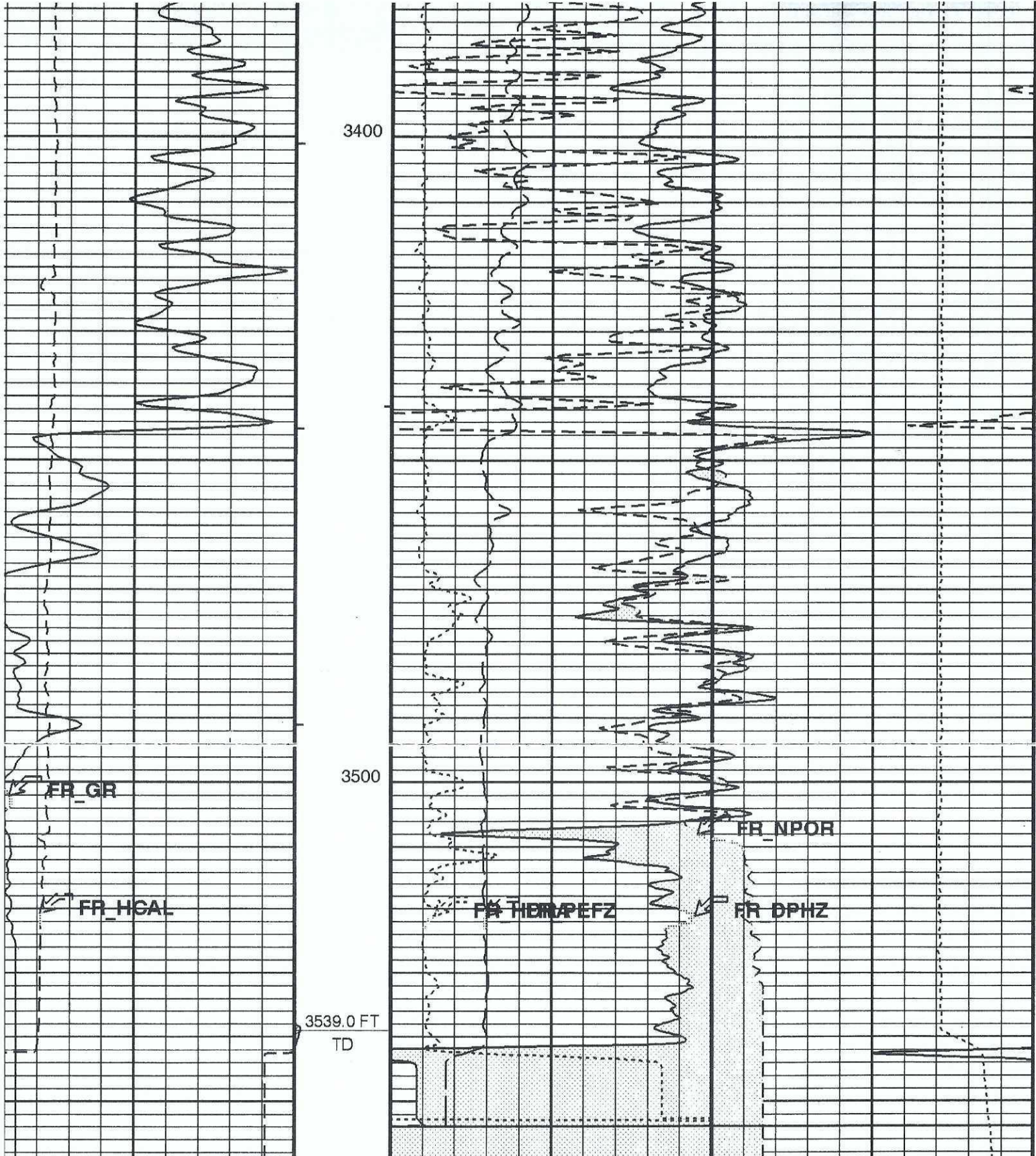
- └ Integrated Hole Volume Minor Pip Every 10 F3
- └ Integrated Hole Volume Major Pip Every 100 F3
 - └ Integrated Cement Volume Minor Pip Every 10 F3
 - └ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

		Std. Res. Formation Pe (PEFZ)		
		0	(---)	10
	Tool/Tot. Drag From D3T to STIA	Alpha Processed Neutron Porosity (NPOR)		
	0.3	(V/V)		-0.1
HILT Caliper (HCAL) (IN)	14	Cable Drag From STIA to STIT	Density Correction (HDRA) (G/C3)	Tension (TENS) (LBF)
		-0.05	0.45	6000
				0
Gamma Ray (GR) (GAPI)	150	Stuck Stretch (STIT)	Std. Res. Density Porosity (DPHZ)	
		0 (F) 50	(V/V)	-0.1

MAIN PASS: POROSITY 5 IN SCALE DOLOMITE MATRIX: 2.87 G/CC





MAIN PASS: POROSITY 5 IN SCALE DOLOMITE MATRIX: 2.87 G/CC

Gamma Ray (GR) (GAPI)	150	Stuck Stretch (STIT) (F)	0	50	0.3	Std. Res. Density Porosity (DPHZ) (V/V)	-0.1	
HILT Caliper (HCAL) (IN)	14	Cable Drag From STIA to STIT	-0.05	Density Correction (HDRA) (G/C3)	0.45	6000	Tension (TENS) (LBF)	0

Company: **ALTAMONT OIL & GAS, INC.**

Well: **JODY FIELD 4-1**
 Field: **WILDCAT**
 County: **PONDERA**

State: **MONTANA**

****PLATFORM EXPRESS****
COMPENSATED NEUTRON / LITHODENSTIY
ARRAY INDUCTION TOOL

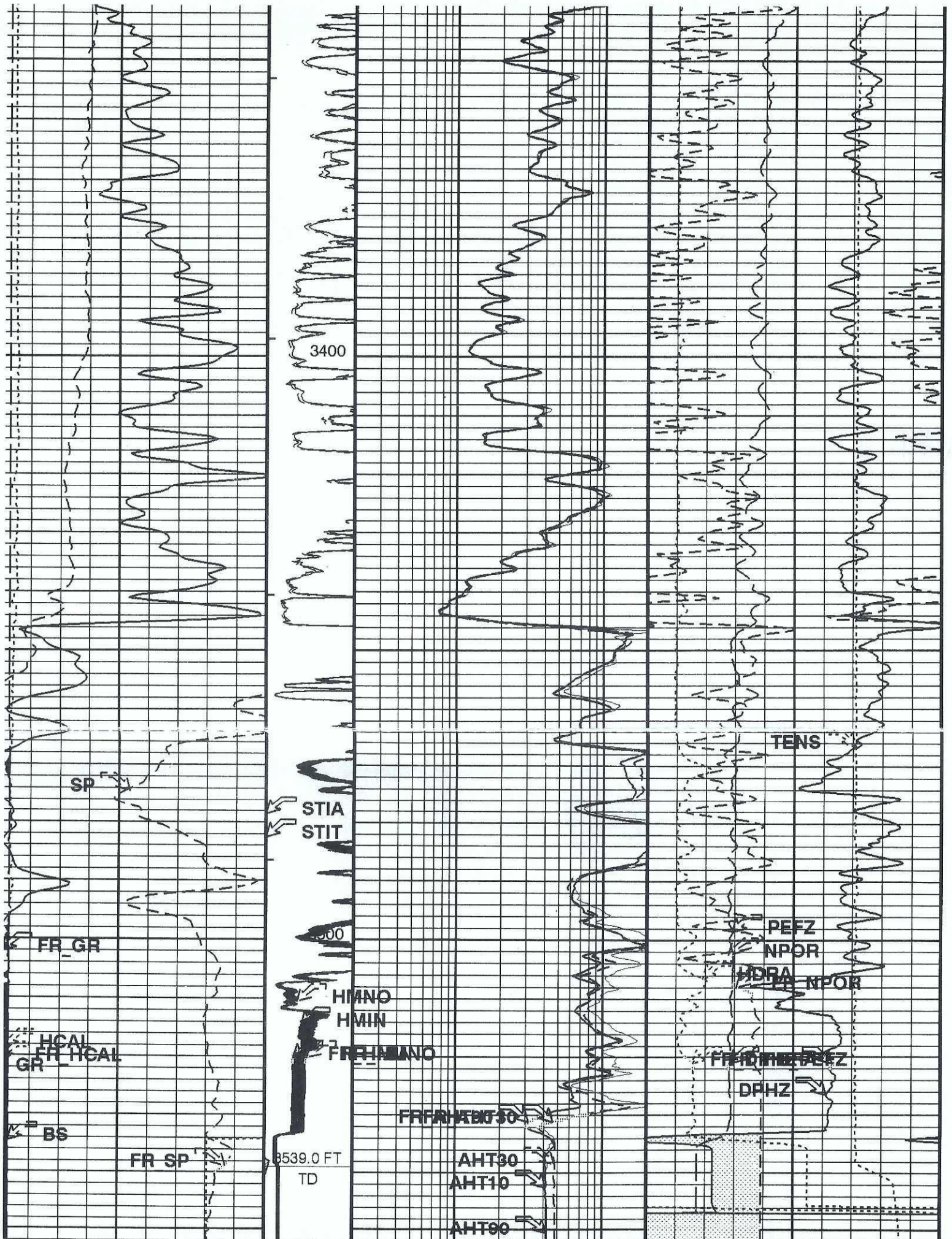
County: **PONDERA**
 Field: **WILDCAT**
 Location: **NENENE SEC 4, T28N, R6W**
 Well: **JODY FIELD 4-1**
 Company: **ALTAMONT OIL & GAS, INC.**

LOCATION	
NENENE SEC 4, T28N, R6W	Elev.: K.B. 4075 ft
SHL: 330' FNL & 430' FEL	G.L. 4070 ft
	D.F. 4074 ft
Permanent Datum: _____	Elev.: 4070 ft
Log Measured From: KELLY BUSHING	5.0 ft above Perm. Datum
Drilling Measured From: KELLY BUSHING	

API Serial No. 25-073-21824	Section 4	Township 28N	Range 6W
---------------------------------------	---------------------	------------------------	--------------------

Logging Date	17-Nov-2007		
Run Number	1		
Depth Driller	3545 ft		
Schlumberger Depth	3539 ft		
Bottom Log Interval	3531 ft		
Top Log Interval	894 ft		
Casing Driller Size @ Depth	7.000 in @ 894 ft		
Casing Schlumberger	6.34 ft @		
Bit Size	6.250 in		
Type Fluid In Hole	FRESH WATER GEL		
Density	9 lbm/gal	34 s	
Fluid Loss	6 cm3	10	
Source Of Sample	FLOWLINE		
RM @ Measured Temperature	4.040 ohm.m	@	69 degF
RMF @ Measured Temperature	3.232 ohm.m	@	69 degF
RMC @ Measured Temperature	5.280 ohm.m	@	69 degF
Source RMF	CALCULATED	CALCULATED	
RM @ MRT	4.051 @ 69	3.241 @ 69	
Maximum Recorded Temperatures	69 degF		
Circulation Stopped	17-Nov-2007		
Logger On Bottom	17-Nov-2007		16:50
Unit Number	7021	CHINOOK, MT	

Logging Date	Run 1	Run 2	F
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			



TRIPLE COMBO MAIN PASS - 5 INCH SCALE

LOCATE WELL CORRECTLY

		4		

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease JODY FIELDS Well No. 4-1

Address PO BOX 200 - CUT BANK MT 59427 Field (or Area) WILDCAT

The well is located 330 ft. from (N) line and 430 ft. from (E) line of Sec. 4

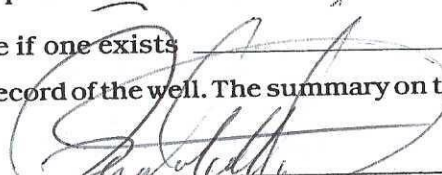
Sec. 3; T. 28; R. 6; County PONDERA; Elevation 4070' GL
(D.F., R.B. or G.L.)

Commenced drilling November 5, 2007, ~~XX~~; Completed November 18, 2007, ~~XX~~

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)
API# 25-073-21824

Signed 
PATRICK M. MONTALBAN
Title PRESIDENT & CEO
Date DECEMBER 31, 2008

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>3446'</u> to <u>3452'</u>	<u>O & G</u>	From _____ to _____
From <u>3456'</u> to <u>3463'</u>	<u>O & G</u>	From _____ to _____
From <u>3467'</u> to <u>3474'</u>	<u>O, G & W</u>	From _____ to _____
From _____ to _____		From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	894.41'	0	894.41'	180 Sacks	Class G Cement
4-1/2"	10.5#/ft	API	ST&C	3545'	894.41'	3454'	100 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7#/ft	J55	ST&C	108 Jts	

COMPLETION RECORD

Rotary tools were used from 0 to 3545'
Cable tools were used from _____ to _____
Total depth 3545 ft.; Plugged back to 3463' T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3446'	3450'	3-1/8" HSC				
3466'	3470'	"				
3470'	3474'	"				

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from MADISON (pool) formation.
I.P. 7 barrels of oil per 1 hours (pumping or flowing)
Mcf of gas per _____ hours.
_____ barrels of water per _____ hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
	NONE							

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
ARRAY INDUCTION LOG	894'	3531'
COMPENSATED NEUTRON & THREE DETECTOR		
DENSITY	894'	3531'

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 4-1
NENENE Section 4-T28N-R6W
(330' FNL – 430' FEL)
Glacier County, Montana
API No. 25-073-21824

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: November 5, 2007
Completion Date: Novemebr 18, 2007
Status: Madison Sun River Dolomite "Wildcat Oil Well
Discovery"
Eleavtion: 4070'GR. 4075'KB.
Total Depth: 3545' Driller 3539' Logger
Casing: Ran 21 joints 7",17#/ft,ltd,8rd,ST&C,Rge 3,(896.91)
set@894.41KB cemented with 180sx Class G
cement,3%Calcium Chloride, 3% Calcium
chloride,1/2# flocelle.
Ran 85 joints4 1/2",10.5#/ft,8rd,ST&C,Rge3
(3549.57') set @3546.57' KB cemented with
100 sx Class G, 10% Nacl,10% Fine Mica,
1/4 #/sack flocelle
Contractor: GaSco Drilling LLC Rig No.5
Type Rig: Atlas Copco (Tophead Drive)
Mud Pump: National Ideal C - 150 (6 1/2" x 12")
Air Compressor: Dawoo Industries (1250mmcf 350psi)
Air Program: Surface to 3390'
Mud Program: 3390'-3545'
Hole Size: 8 3/4" (0-897') 6 1/4"(897' - 3545 ')
Size Drill Pipe: 3 1/2" O.D. x 2 1/2" I.D. (13.30 #/ft.)
Size Drill Collars: 4 3/4"O.D. x 2 1/8" I.D.(353') Weight Pipe =
4 1/2"O.D. x 2" I.D.(16.60#/ft.)(120')
No. Drill Collars: 13 = 353'
Sample Intervals: 30'(1950'- 2310')(2560' - 2980')10'(1700' - 1950')
(2310' - 2560')(2980' - 3450')(3470' - 3480')
(3490' - 3545')
5'(3450' - 3470')(3480' - 3490')
Sample Quality: Poor while drilling with mud.
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 8 3/4" hole with air (mist) from 37' to 897'. Did not show strong flow of water through the drilling of the surface hole. Drilled 6 1/4" hole with air from 897' to 1938'. 1 second flare @ 1938' (T.S.T.M.) Drilled 6 1/4" hole with air from 1938' to 2224'. 2 second flare @ 2224' (T.S.T.M.). Drilled 6 1/4" hole with air from 2224' to 2510'. 3 second flare @ 2510' (T.S.T.M.). Drilled 6 1/4" hole with air from 2510' to 3390' and did not encounter water. Total depth 3390' by driller with air. Converted to mud drilling program at 3390'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

Ran Schlumberger Platform Express Array Induction Log from 894' to 3531'. Ran Schlumberger Platform Express Compensated Neutron & Three Detector Density from 894' to 3531'.

Mud Summary

Gel - 104sx	Drilling Zone - 2 x 5 gallon
Reosmart - 1sx	Poly Pac UL - 3 sx
Maxi Seal - 8sx	ReoSmart - 1
Air Foam - 1 - 1 Gallon Containers	Platinum PacUL - 3sx
Caustic Soda - 3sx	Sodium Bicarbonate - 1sx
Poly Plus - 1 x 5 gallon	

Bit Record

No.	Size	Make	Type	Interval	Footage	Hours	Jet Size	Serial No.
1	8 3/4"	STC	F-20	0 - 897	897	36.00	open	ER8776
2	6 1/4"	HTC	ER-20	897-3545	2648	50.75	open	51080508

Vertical Surveys

Depth	Degrees
897'	1 1/2*
1525'	3/4*
2002'	1*
2574'	2 3/4*
3018'	2 1/2*

Electric Log Formation Tops

Cretaceous	Depth	Datum
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996
Jurassic		
Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659
Mississippian		
Madison(Sun River Dolomite)	3445	+630
Total Depth:	3539	+536

Daily Activity Summary (Calendar Days)

- November 6,2007 Moved in and Rigged up Gasco Drilling LLC Rig No. 5. Spud 8 3/4" hole at 4:30P.M. Drilled 8 3/4" surface hole from 0' to 19'. Drive 9 5/8" casing set @ 15.00' set @ 19'. Repair upper radiator hose. Nipple up deflector head. Drilled 8 3/4" surface hole with air mist from 15' to 154'.
- November 7,2007 Drilled 8 3/4" surface hole with air mist from 154' to 669'.
- November 8,2007 Drilled 8 3/4" surface hole with air mist from 669 to 897'. Total Depth 897' by Driller. Condition hole for surface casing. Ran 23 joints 7", 17#/ft, Ltd, 8rd, ST&C, (896.91) set @ 894.41. KB cemented with 180 sacks Class G cement + 3% Calcium Chloride, 1/2#/sack focelle. Good returns to surface. Plug down at 1:45 P.M. W.O.C. Nipple up BOP. Rig down and move off location. Wait on new drilling rig.
- November 13,2007 T.D. 897'. Moved in and rigged up Gasco Drilling LLC Rig No. 7. Work on rig floor. Nipple up B.O.P.. Work on hydrolics. Trip in hole with 6 1/4" bit. Clean and dry hole. Drilled cement plug and dry hole. Ran survey.
- November 14,2007 T.D. 897'. Dry hole. Drilled out @ 3:05A.M.. Drilled 6 1/4" hole with air from 897' to 2420'.
- Novemeber 15,2007 Drilled 6 1/4" hole with air from 2420' to 3370'.
- November 16,2007 Drilled 6 1/4" hole with air from 3370' to 3390'. Drilled to 3390' Total depth by driller with air. Did not encounter any moisture of any kind. Converted to drilling mud @ 12:30A.M. Drilled out with drilling mud @ 10:10P.M. Drilled 6 1/4" hole with drilling mud from 3390' to 3545'. Total depth 3545' by driller.

November 17,2007 T.D. 3545'. Condition hole for logs. Short trip. Condition hole for logs. Trip out of hole for open hole logs. Rig broke down to repair Boom a number of times. Ran Schlumberger logs. Rig up to run production casing. Began to run production casing.

November 18,2007 Ran 85 joints 4 ½",9.5#/ft,API.,J55,8rd,ST&C,Rge 3 (3549.57') set @ 3546.47'. Lower viscosity to 40. Cemented Well with 100 sacks Class G cement with 10%Nacl,10% Fine Mica,1/4# floccelle,Plug down @5:50A.M.. Set 4 ½" casing in the Slips. Rigged down.
Report Ends

Lithology

Sample descriptions begin at 1700', in the Cretaceous Colorado. Sample descriptions are not corrected for drill time lag. Formation tops were determined from electric logs. Samples were examined and described wet except for the samples in the Mississippian Madison Sun River Dolomite that were described dry.

SAMPLES CAUGHT IN 10' INTERVAL:

- 1700 – 1710 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, gritty in parts.
- 1710 – 1720 same as above.
- 1720 – 1730 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured to gritty textured, sandy in parts.
- 1730 – 1740 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous. Bentonite, tan, soft, lumpy.
- 1740 – 1750 same as above. Bentonite, tan, white, soft, lumpy.
- 1750 – 1760 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous.
- 1760 – 1770 same as above.
- 1770 – 1780 Shale, grey, chunky, firm to hard, dense, noncalcareous, earthy textured, micromicaceous.
- 1786 – E Log Top - Blackleaf
- 1780 – 1790 Shale, dk greyish black, chunky, blocky, firm to hard, dense, very calcareous, many tan specks.
- 1790 – 1800 Shale as above.

- 1800 – 1810 Shale, dk grey, chunky, blocky, firm to hard, dense, very calcareous, earthy textured, many tan specks.
- 1810 – 1820 same as above.
- 1825 – E Log Top – Blackleaf Bentonite
- 1820 – 1830 Shale, dk grey, chunky firm, dense, calcareous, earthy textured.
- 1830 – E Log Top – Blackleaf Sandstone
- 1830 – 1840 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy, micromicaceous.
- 1840 – 1850 Shale as above.
- 1850 – 1860 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone, grey, blocky, hard, dense, noncalcareous, tight.
- 1860 – 1870 Sandstone, grey, very fine to fine grained, subrounded to subangular, Moderately sorted quartzose, many clear and grey grains,
- 1870 – 1880 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, many unconsolidated grains in sample pan. Siltstone, grey, blocky, hard, dense, noncalcaeous, tight.
- 1884 – 1st Bow Island
- 1880 – 1890 Many unconsolidated grains in sample pan. Bentonite, tan, soft, lumpy.
- 1890 – 1900 same as above.
- 1900 – 1910 Siltstone, grey, blocky, hard, dense, noncalcareous, tight
- 1910 – 1920 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone as above. Unconsolidated grains in sample pan.

1920 – 1930 Bentonite, tan, white, soft, waxy, lumpy, micromicaceous. Shale, dk grey
Chunky, hard, dense, noncalcareous, earthy textured.

1930 – 1940 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured.

1940 – 1950 Bentonite, tan, soft, lumpy. Many unconsolidated grains in sample pan.

Begin 30' Samples

1950 – 1980 Sandstone, grey, very fine grained, rounded, well sorted quartzose,
many clear and grey grains, trace glauconite grains.

1980 – 2010 Bentonite, tan, soft, lumpy. Shale, greenish grey, chunky, firm, dense,
noncalcareous, gritty textured. Siltstone, greenish grey, blocky, hard, dense
noncalcareous, tight.

2026 – E Log Top – 2nd Bow Island

2010 – 2040 Sandstone, grey, very fine to fine grained, rounded to subrounded, well
sorted quartzose, many clear grains, few black chert grains, few glauconite
grains.

2040 – 2070 Shale, chocolate brown, chunky, firm to hard, dense, waxy textured,
trace orange zeolites. Bentonite, tan, soft, lumpy

2070 – 2100 Shale, lt green, chunky, firm, dense, noncalcareous, waxy textured.
Much Bentonite, tan, soft, lumpy.

2100 – 2130 Sandstone, greenish grey, very fine to medium grained, coarse grained in
parts, subrounded to angular, poorly sorted quartzose, many clear grains,
trace black chert grains, trace glauconite grains.

2134 – E Log Top – 3rd Bow Island

2130 – 2160 Sandstone, brownish white, very fine grained, rounded, well sorted
quartzose, many clear and grey grains.

- 2160 – 2190 Shale,black,chunky,firm,dense,noncalcareous,waxy textured.
- 2190 – 2220 Bentonite,ten,soft,lumpy,micromicaeous, Shale,lt green,chunky,
Soft,dense,noncalcareous,waxy textured.
- 2220 – 2250 Shale,green,greys,chunky,soft to firm,dense,noncalcareous,earthy to waxy
many orange zeolites.Textured. Bentonite,tan,soft,lumpy.
- 2250 – 2280 Bentonite,tan,soft,lumpy. Sandstone,brown,very fine grained,rounded,
well sorted quartzose.
- 2280 – 2310 Shale,greys,chunky,soft to firm,dense,noncalcareous,earthy to gritty
Textured. Bentonite,tan,soft,lumpy.

Resume 10' Samples

- 2310 – 2320 Shale,dk greys,chunky,firm,dense,noncalcareous,earthy to gritty textured.
Bentonite,tan,soft,lumpy.
- 2320 – 2330 Bentonite,tan,soft,lumpy. Shale as above.
- 2330 – 2340 Sandstone,dk greys,very fine grained,well sorted,rounded quartzose
many unconsolidated grains in sample pan,many clear and grey grains,
trace glauconite grains. Bentonite,tan soft,lumpy. Shale,dk greys,chunky
firm,dense noncalcareous,gritty textured.
- 2340 – 2350 Shale,dk greys,chunky,firm,dense,noncalcareous,gritty textured.
- 2350 – 2360 same as above.
- 2367 – E Log Top – 4th Bow Island "A" Sandstone
- 2360 – 2370 Sandstone,greys,very fine to fine,rounded to subrounded,moderately sorted
quartzose,noncalcareous,many clear grains,few black chert grains,few
glauconite grains.

- 2370 – 2380 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear grains, many grey grain, few glauconite grains.
- 2380 – 2390 same as above.
- 2390 – 2400 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
bentonite, tan, soft, lumpy. Many unconsolidated grains in sample
pan.
- 2400 – 2410 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
sandy in parts. Bentonite, tan, soft, lumpy.
- 2413 – E Log Top – 4th Bow Island “B” Sandstone
- 2410 – 2420 Sandstone, grey, very fine grained, rounded, well sorted
quartzose, many clear and grey grains, few glauconite grains.
- 2420 – 2430 same as above becoming slightly coarser grained, very bentonitic.
- 2430 – 2440 Sandstone, dk grey, very fine grained, rounded to subrounded, well sorted
quartzose, many grey grains, few glauconite grains, bentonitic.
- 2440 – 2450 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty to sandy
textured. Many unconsolidated grains in sample pan.
- 2450 – 2460 Shale, grey, chunky, soft to firm, dense, noncalcareous, gritty textured
unconsolidated grains in sample pan.
- 2460 – 2470 same as above. Bentonite, tan, soft, lumpy.
- 2470 – 2480 Shale, dk grey, grey, chunky, firm, dense, noncalcareous, earthy textured,
Bentonitic.
- 2480 – 2490 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy textured,
Micromicaceous.

- 2490 – 2500 same as above. Many unconsolidated grains in sample pan.
- 2500 – 2510 Shale, grey, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2510 – 2520 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear and grey grains, few glauconite grain, bentonitic.
- 2520 – 2530 Many unconsolidated grains in sample pan. Shale, grey, chunky, firm, dense, noncalcareous, gritty textured. Sandstone as above.
- 2539 – E Log Top - Dakota
- 2530 – 2540 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured, micromicaceous. Bentonite, tan, soft, lumpy.
- 2540 – 2550 Sandstone, lt grey, very fine grained, rounded, well sorted quartzose
many clear grains few grey grains.
- 2550 – 2560 Sandstone, clear, very fine grained, rounded to subangular, well sorted
Quartzose, many clear grains, few grey chert grains, bentonitic.

Resume 30' Samples

- 2582 – E Log Top - Kootenai
- 2560 – 2590 Sandstone, brown, very fine to medium grained, rounded to subangular
Moderately sorted quartzose, many unconsolidated grains. Bentonite, tan, soft.
- 2590 – 2620 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured.

- 2620 – 2650 Sandstone, grey, very fine to fine grained, rounded to subrounded, well to moderately sorted quartzose, many clear grains, many grey shale inclusions many black chert grains.
- 2650 – 2680 Sandstone, grayish white, very fine to fine grained, rounded to subangular, moderately sorted quartzose, many clear grains, many grey and black grains.
- 2680 – 2710 Shale, brick red, green, lt green, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured.
- 2710 – 2740 Sandstone, green, lt green, very fine grained, rounded, well sorted quartzose many unconsolidated grains, many clear grains, orange shale as above. Shale green, chunky, firm, dense, noncalcareous, gritty textured.
- 2740 – 2770 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured. Bentonite, tan, soft, lumpy.
- 2770 – 2800 Sandstone, green, lt green, very fine to fine, rounded to subrounded, well sorted quartzose, many clear and frosted grains, many glauconite grains.
- 2800 – 2830 Shale, green, chunky, firm, dense, noncalcareous, earthy textured, smooth. shale, grey, chunky, firm, dense, noncalcareous, earthy textured.
- 2830 – 2860 Shale, brick red, maroon, green, grey, chunky, firm, dense, noncalcareous, gritty textured. Bentonite, white, soft waxy.
- 2860 – 2890 Shale, multicolored, green, brick red, grey, reddish brown, maroon, chunky, soft to firm, dense, noncalcareous, earthy textured.
- 2890 – 2920 Sandstone, grey, very fine to fine grained, rounded to subangular, moderately Sorted quartzose, many clear grains, many grey grains, many amber grains, Bentonitic.

- 2920 – 2950 Sandstone,dk brown,very fine grained,rounded,well sorted quartzose, Bentonitic,tan,soft,lumpy.
- 2950 – 2980 Shale,brick red,chunky,soft to firm,dense,noncalcareous,gritty textured. turns sample bag bick red.

Begin 10' Samples

- 2980 – 2990 Shale,brown,brick red,chunky,firm,dense,noncalcareous,earthy to gritty textured.
- 2990 – 3000 Shale,green,chunky,soft to firm,dense,noncalcareous,gritty textured,sandy in parts. Bentonite,tan,soft,lumpy.
- 3000 – 3010 Shale,grey,chunky,platy,soft to firm,dense,noncalcareous,gritty textured.
- 3010 – 3020 Shale,multicolored,green,grey,brick red,brown,reddish brown,maroon, chunky,firm,dense,noncalcareous,earthy textured,motteled in parts.
- 3020 – 3030 Sandstone,grey,very fine grained,rounded to subrounded,well sorted quartzose,many clear grains,many black shale inclusions,trace green grains,trace amber grains.
- 3030 – 3040 Sandstone,grayish white,very fine grained,rounded,well sorted quartzose,many clear grains,trace black and grey shale inclusions, trace amber grains.
- 3040 – 3050 Shale,multicolored,brick red,green,grey,brown,maroon,chunky,soft to firm,dense,motteled,noncalcareous,earthy textured.
- 3050 – 3060 Shale,brick red,grey,green,chunky,firm,dense,noncalcareous,earthy textured,smooth.
- 3060 – 3070 Shale,grey,green,chunky,blocky,firm,dense,noncalcareous,earthy to slightly gritty textured.

3079 – E Log Top - Sunburst

3070 – 3080 same as above.

3080 – 3090 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, trace amber grains, few grey chert grains.

3090 – 3100 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well Sorted quartzose, many clear grains, few grey chert grains, trace amber Grains.

3100 – 3110 Shale, green, lt green, chunky, firm, dense, noncalcareous, earthy textured Smooth. Bentonite, tan, cream, soft, lumpy.

3110 – 3120 Shale, green, chunky, blocky, firm, dense, noncalcareous, earthy to waxy Textured. Bentonite, white, soft, lumpy.

3120 – 3130 Shale, greenish grey, chunky, firm, dense, noncalcareous, waxy textured. Much Bentonite, white, soft, lumpy. Many coarse grained, angular orange grains in sample pan. Many unconsolidated grains in sample pan.

3135 – E Log Top - Morrison

3130 – 3140 Sandstone, white, clear, very fine to fine grained, rounded to subrounded well to moderately sorted quartzose, many clear and frosty grains. few grey grains.

3140 – 3150 Shale, multicolored, green, lt green, maroon, grey, "baby poop yellow", chunky, soft to firm, dense, noncalcareous, earthy textured.

3150 – 3160 Shale, brick red, reddish brown, trace yellow above, chunky, soft to firm, Dense, noncalcareous, earthy textured, Bentoite, white, soft, lumpy.

- 3160 – 3170 Shale, maroon, greenish grey, grey, chunky, soft to firm, dense, Noncalcareous, earthy to waxy textured. Bentonite, white, soft.
- 3170 – 3180 Shale, baby poop yellow, chunky, soft, noncalcareous, earthy textured. Shale, grey, lt grey, chunky, soft firm, dense, noncalcareous, earthy textured.
- 3180 – 3190 Siltstone, brown, chunky, blocky, firm to hard, dense, very calcareous, tight, no shows. Shale, grey, chunky, soft to firm, dense, calcareous, earthy to gritty textured.
- 3190 – 3200 Shale, dk grey, chunky, soft to firm, dense, calcareous, earthy to gritty textured, sandy in parts.
- 3208 – E Log Top - Swift
- 3200 - 3210 Sandstone, brown, very fine to fine grained, rounded to subrounded, well sorted, quartzose, many clear and dark grains.
- 3210 – 3220 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, gritty Textured. Many very fine grains in sample pan.
- 3220 – 3230 Sandstone, brown, very fine to fine grained, rounded to subangular, well to Moderately sorted quartzose, many clear grains and few grey grains.
- 3230 – 3240 Sandstone as above. Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 3240 – 3250 Sandstone, brown, very fine to fine grained, rounded, well sorted quartzose many clear grains. Shale dk grey, chunky, soft to firm, dense, noncalcareous gritty textured.
- 3250 – 3260 same as above.
- 3260 – 3270 Sandstone, brown, very fine grained, rounded, well sorted quartzose many clear and grey grains.

- 3270 – 3280 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3280 – 3290 Shale,gre,chunky,platy,firm,dense,noncalcareous,earthy to gritty textured.
- 3290 – 3300 Shale,gre,chunky,platy,firm,dense,noncalcareous,earthy textured.
- 3300 – 3310 Shale,gre,lt gre,chunky,platy,firm,dense,noncalcareous,earthy Textured.
- 3310 – 3320 Shale,dk gre,chunky,firm,dense,noncalcareous,gritty textured.
- 3320 – 3330 Shale as above.
- 3331 – E Log Top Rierdon
- 3330 – 3340 Marlstone,dove gre,chunky,blocky,firm to hard,dense,very calcareous earthy textured,micropyritic. Marlstone,tan,soft,lumpy,very calcareous.
- 3340 – 3350 same as above.
- 3350 – 3360 Marlstone,dove gre,chunky,soft to firm,dense,very calcareous,earthy textured,micropyritic.
- 3360 – 3370 same as above.
- 3370 – 3380 Marlstone,dove gre,chunky,firm to hard,dense,very calcareous, earthy textured,micropyritic. Marlstone,tan,soft,lumpy.
- 3380 – 3390 Marlstone as above.

Convert to Drilling mud. Drilled to Total Depth 3390 by Driller with air.Did not encounter any moisture.

3390 - 3400 Marlstone as above.

3400 – 3410 Marlstone, dove grey, greenish grey, chunky, firm to hard, dense, very calcareous, earthy textured, micropyrritic.

3416 – E Log Top - Sawtooth

3410 – 3420 same as above. Poor sample many cavings.

3420 – 3430 Siltstone, lt grey, chunky, blocky, soft to hard, dense, very calcareous, micropyrritic. Poor sample 50% cavings

3430 – 3440 Siltstone, lt grey, grey, chunky, blocky, firm to hard, dense, very calcareous Earthy textured, micropyrritic.

3445 – E Log Top – Madison Sun River Dolomite

3440 – 3450 Dolomite, tan, buff, chalky to sublithographic in most parts, Trace Dolomite Tan, buff, finely microcrystalline to pin point vugular porosity, fair Petroliferous odor, bright yellow fluorescence, strong flowing cut in Trichloroethane, possible oil pay.

Begin 5' Samples

3450 – 3455 Dolomite as above. Dolomite, tan, buff, finely microcrystalline porosity, Large pin point vugular porosity, fair to strong petroliferous odor, bright Yellow porosity, live brown oil stain, strong flowing cut in trichloroethane "Oil Payzone".

3455 – 3460 Dolomite, tan, buff, chalky, sublithographic, tight, dense, no shows. Few clusters with show as above.

3460 – 3465 Dolomite,tan, buff, cryptocrystalline to chalky, dense, nonshows,
Dolomite as above, shows as above.

3465 – 3470 Dolomite, tan, buff, fragmental, chalky, sublithographic, dense, pinpoint
vugular porosity in parts. no shows, Trace Dolomite, tan, white, finely
crystalline, sucrosic, pin point vugular porosity, fractures, fair petroliferous
odor, live brown oil stain, strong flowing cut in trichloroethane, oil pay.

Resume 10' Samples

3470 -3480 Dolomite, tan, coarsely crystalline porosity, honeycomb porosity,
large vugular porosity, very strong petroliferous odor, uniform
bright yellow fluorescence, live brown oil stain, strong flowing
cut in trichloroethane, oil payzone.

Resume 5' Samples

3480 – 3485 Same as above. Dolomite, tan, buff, chalky, sublithographic, dense, no shows.

3485 – 3490 Dolomite, tan, buff, white, chalky, finely crystalline, pinpoint vugular
porosity, chalky, dense, noncalcareous, no shows.

Resume 10' Samples

3490 – 3500 Dolomite as above. Shale, dk grey, chunky, firm, dense, noncalcareous,
earthy textured.

3500 – 3510 Dolomite, tan, white, chalky, finely microcrystalline, pinpoint vugular
Porosity, dense, no shows. Shale as above.

3510 – 3520 Dolomite, tan, buff, medium to coarse crystalline, large pin point
Vugular porosity, no shows, no stain, no fluorescence.

3520 – 3530 Dolomite, tan, buff, sublithographic, dense, tight, no shows. Chalky
in parts. Traces dolomite as above.

3530 – 3540 Dolomite, white, chalky sublithographic in parts, firm, dense, tight, no shows.
Shale dk grey, chunky, dense, noncalcareous, earthy textured

3540 – 3545 same as above.

3545 - Total Depth by Driller

3539 - Total Depth by Logger

Company: **ALATMONT OIL & GAS, INC**

Well: **JODY FIELD 4-1**
 Field: **CROCKER SPRINGS**
 County: **PONDERA**

State: **MONTANA**

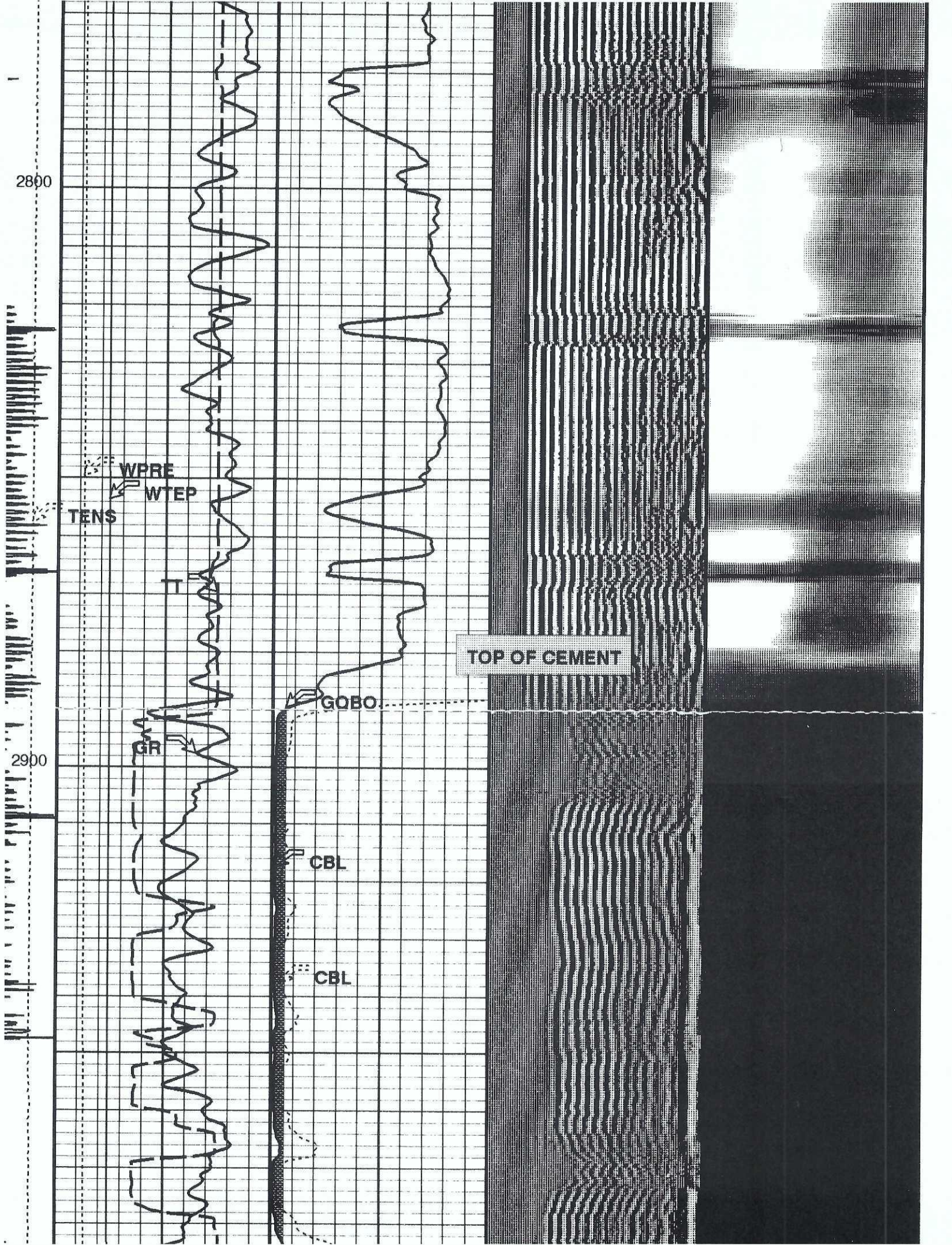
SCMT: CEMENT BOND LOG CBL-VDL GR-CCL-PRESSURE-TEMPERATURE

County: **PONDERA**
 Field: **CROCKER SPRINGS**
 Location: **NE NE 330' FNL & 430 FEL**
 Well: **JODY FIELD 4-1**
 Company: **ALATMONT OIL & GAS, INC**

LOCATION			
NE NE 330' FNL & 430 FEL		Elev.: K.B. 4075 ft	
		G.L. 4070 ft	
		D.F. 4075 ft	
Permanent Datum: _____	GROUND LEVEL _____	Elev.: 4070 ft	
Log Measured From: _____	KELLY BUSHING _____	5.0 ft above Perm. Datum	
Drilling Measured From: _____	KELLY BUSHING _____		
API Serial No. 25-073-21924	Section 4	Township 28N	Range 6W

Logging Date	30-Nov-2007
Run Number	ONE
Depth Driller	3450 ft
Schlumberger Depth	3544 ft
Bottom Log Interval	3536 ft
Top Log Interval	2678 ft
Casing Fluid Type	FRESH WATER
Salinity	
Density	8.6 lbm/gal
Fluid Level	400 ft
BIT/CASING/TUBING STRING	
Bit Size	6.250 in
From	0 ft
To	3545 ft
Casing/Tubing Size	4.500 in
Weight	10.5 lbm/ft
Grade	
From	0 ft
To	3545 ft
Maximum Recorded Temperatures	74 degF
Logger On Bottom	30-Nov-2007
Unit Number	375
Location	WILLISTON
	14:00

		Run 1	Run 2	Run 3
PVT DATA				
Oil Density				
Water Salinity				
Gas Gravity				
Bo				
Bw				
1/Bg				
Bubble Point Pressure				
Bubble Point Temperature				
Solution GOR				
Maximum Deviation				
CEMENTING DATA				
Primary/Squeeze	Primary			
Casing String No				
Lead Cement Type				
Volume				
Density				
Water Loss				
Additives				
Tail Cement Type				
Volume				
Density				
Water Loss				
Additives				
Expected Cement Top	2700 ft			
Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Fluid Type				
Salinity				
Density				
Fluid Level				
BIT/CASING/TUBING STRING				
Bit Size				
From				
To				
Casing/Tubing Size				
Weight				
Grade				
From				
To				
Maximum Recorded Temperatures				
Logger On Bottom				
Unit Number				
Location				



2800

WPRE
WTEP

TENS

TOP OF CEMENT

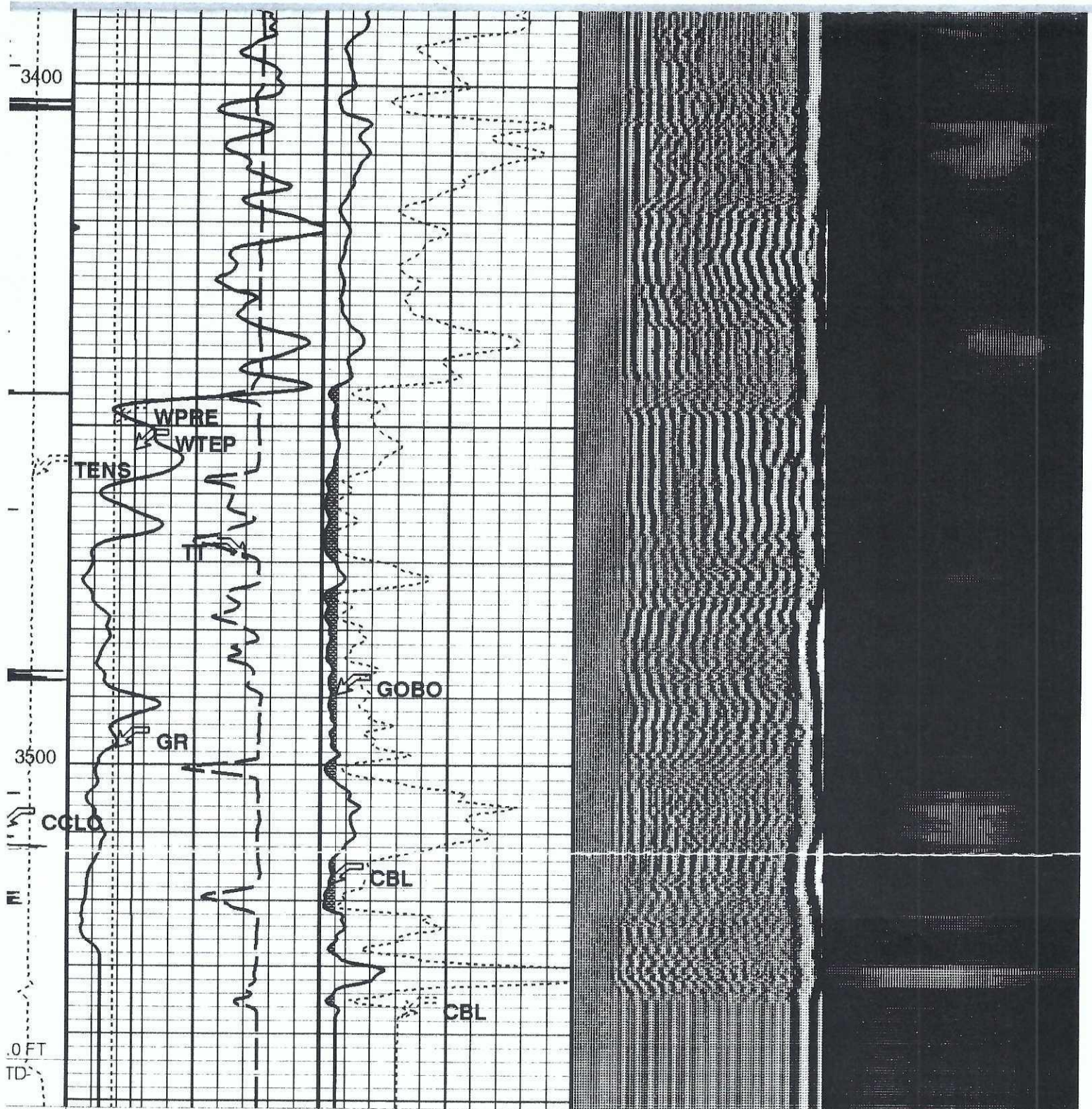
GOBO

GR

2900

CBL

CBL



CASING NOT PRESSUREIZED

- 2.5000
- 5.0000
- 7.5000
- 10.0000
- 12.5000
- 15.0000
- 17.5000
- 20.0000
- 22.5000
- 25.0000
- 27.5000
- 30.0000
- 32.5000
- 35.0000
- 37.5000
- 40.0000
- 42.5000
- 45.0000
- 47.5000
- 50.0000
- 52.5000
- 55.0000

ision (ENS) Gamma Ray (GR) CBL Amplitude (CBL) Min Amplitude Max

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 4-1A
NENENE Section 4-T28N-R6W
(330' FNL – 380' FEL)
Glacier County, Montana
API No. 25-073-21842

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: May 18, 2009
Completion Date: May 23, 2009
Status: Madison Sun River Dolomite "Wildcat
Oil Well Discovery"
Elevation: 4070' GR. 4075' KB.
Total Depth: 3442' Driller 3462' Driller (Completion)
Casing: Ran 17 joints 7", 17#/ft, lrd, 8rd, ST&C, Rge 3
(729.17) set @ 726.67 KB cemented with 160sx
Class G cement, 3% Calcium Chloride, 3% Calcium
chloride, 1/2# floccelle.
Ran 85 joints 4 1/2", 10.5#/ft, 8rd, ST&C, Rge 3
(3442.91') set @ 3440.91' KB cemented with
60 sx Class G, 2% CaCO₃
Contractor: GaSco Drilling LLC Rig No.7
Type Rig: Atlas Copco RD20 (Tophead Drive)
Mud Pump: Gardner Denver FXK (6" x 14")
Air Compressor: Atlas Copco (1250mmcf 350psi)
Air Program: Surface to 3442'
Mud Program: 3442
Hole Size: 8 3/4" (0-730') 6 1/4" (730' - 3442')
Size Drill Pipe: 3 1/2" O.D. x 2 1/2" I.D. (13.30 #/ft.)
Size Drill Collars: 4 3/4" O.D. x 2 1/8" I.D. (353') Weight Pipe =
4 1/2" O.D. x 2" I.D. (16.60 #/ft.) (120')
No. Drill Collars: 13 = 354'
Sample Intervals: 30' (1950' - 2310') (2560' - 2980')
10' (1700' - 1950') (2310' - 2560') (2980' - 3442')
Sample Quality: Good
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 8 3/4" hole with air (mist) from 37' to 730'. Did not show strong flow of water through the drilling of the surface hole. Drilled 6 1/4" hole with air from 730' to 3442'. No gas was encountered. Total depth 3442' by driller with air. Converted to mud drilling program at 3442'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

No Logs were run.

Mud Summary

Max Gel -17sx

Plat Pac UL - 8 - 5gallons

<u>Bit Record</u>								
<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Interval</u>	<u>Footage</u>	<u>Hours</u>	<u>Jet Size</u>	<u>Serial No.</u>
1	8 3/4"	STC	CH-14	0 - 730	730	18.00	open	225925
2	6 1/4"	HTC	STX-20	730-3442	2712	28.00	open	5123271
3	3 7/8"	Varel	DW531	3442-3462	20	1.0	reg	1016538

Vertical Surveys

<u>Depth</u>	<u>Degrees</u>
251'	1/4*
730'	1/4*
1305'	1/2*
1970'	1/2*
2540'	1/2*
3272'	1/2*

Sample Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996
<u>Jurassic</u>		
Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659
<u>Mississippian</u>		
Madison(Sun River Dolomite)	---	---
<u>Total Depth:</u>	3542	+633

Daily Activity Summary (Calendar Days)

- May 18,2009 Moved in and Rigged up Gasco Drilling LLC Rig No. 7
Spud 8 3/4" hole at 11:00A.M. Drilled 8 3/4" surface hole from 0' to 37'. Drive 9 5/8" casing set @ 16.00' set @ 17'.
Repair upper radiator hose. Nipple up deflector head.
Drilled 8 3/4" surface hole with air mist from 37' to 446'.
- May 19,2009 Drilled 8 3/4" surface hole with air mist from 446 to 730'.
Total Depth 730' by Driller. Condition hole for surface casing. Ran 17 joints 7", 17#/ft, Ltd, 8rd, ST&C, (729.79) set @ 728.79' KB cemented with 160 sacks Class G cement + 3% Calcium Chloride, 1/2#/sack focelle. Good returns to surface.
Plug down at 2:00 P.M. W.O.C. Nipple up BOP.
- May 20,2009 Trip in hole with 6 1/4" bit. Clean and dry hole. Drilled cement plug and dry hole. Ran survey. Dry hole. Drilled out @ 2:30A.M..
Drilled 6 1/4" hole with air from 730' to 2881'.
- May 21,2009 Drilled 6 1/4" hole with air from 2881' to 3442'.
Total depth 3442' by driller.
Total depth by driller with air. Did not encounter any moisture.
Converted to drilling mud @ 7:00A.M.
Condition hole for 4 1/2" production casing. Short trip. Condition hole for 4 1/2" production casing. Trip out of hole for 4 1/2" production casing. Rig up to run production casing.
- May 22, 2009 Ran 85 joints 4 1/2", 9.5#/ft, API., J55, 8rd, ST&C, Rge 3 (3442.91') set @ 3440.91'. Lower viscosity to 40. Cemented Well with 60 sacks Class G cement with 2% calcium chloride.
Plug down @ 1:30A.M.. Set 4 1/2" casing in the Slips. Report Ends.
- May 23, 2009 T.D. Nipple up BOP. Pick up 2 3/8" tubing. Tagged plug at 3418'.
Mist up to drill out 4 1/2" plug. Drilled 3 7/8" hole with air mist from 3442' to 3460'. Test well, no show of oil or water. Drilled 3 7/8" Hole with air mist from 3460' to 3462'. Shut in for 1 1/2 hr.
No show, no oil, no water, no odor. Note Driller Total Depth 3468'.
Last 5' run in with no rotation or weight. Rig down.

Lithology

Sample descriptions begin at 1700', in the Cretaceous Colorado. Sample descriptions are not corrected for drill time lag. Formation tops were determined from electric logs. Samples were examined and described wet except for the samples in the Mississippian Madison Sun River Dolomite that were described dry.

SAMPLES CAUGHT IN 10' INTERVAL:

- 1700 – 1710 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, gritty in parts.
- 1710 – 1720 same as above.
- 1720 – 1730 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured to gritty textured, sandy in parts.
- 1730 – 1740 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous. Bentonite, tan, soft, lumpy.
- 1740 – 1750 same as above. Bentonite, tan, white, soft, lumpy.
- 1750 – 1760 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous.
- 1760 – 1770 same as above.
- 1770 – 1780 Shale, grey, chunky, firm to hard, dense, noncalcareous, earthy textured, micromicaceous.
- 1786 – Sample Top - Blackleaf
- 1780 – 1790 Shale, dk greyish black, chunky, blocky, firm to hard, dense, very calcareous,

many tan specks.

1790 – 1800 Shale as above.

1800 – 1810 Shale, dk grey, chunky, blocky, firm to hard, dense, very calcareous, earthy textured, many tan specks.

1810 – 1820 same as above.

1825 – Sample Top – Blackleaf Bentonite

1820 – 1830 Shale, dk grey, chunky firm, dense, calcareous, earthy textured.

1830 – Sample Top – Blackleaf Sandstone

1830 – 1840 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy, micromicaceous.

1840 – 1850 Shale as above.

1850 – 1860 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone, grey, blocky, hard, dense, noncalcareous, tight.

1860 – 1870 Sandstone, grey, very fine to fine grained, subrounded to subangular, Moderately sorted quartzose, many clear and grey grains,

1870 – 1880 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, many unconsolidated grains in sample pan. Siltstone, grey, blocky, hard, dense, noncalcaeous, tight.

1884 – Sample Top - 1st Bow Island

1880 – 1890 Many unconsolidated grains in sample pan. Sandstone, dk grey, very fine grained, rounded, well sorted quartzose. Bentonite, tan, soft, lumpy.

1890 – 1900 same as above.

1900 – 1910 Siltsone, grey, blocky, hard, dense, noncalcareous, tight

1910 – 1920 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone as above. Unconsolidated grains in sample pan.

1920 – 1930 Bentonite, tan, white, soft, waxy, lumpy, micromicaceous. Shale, dk grey chunky, hard, dense, noncalcareous, earthy textured.

1930 – 1940 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured.

1940 – 1950 Bentonite, tan, soft, lumpy. Many unconsolidated grains in sample pan.

Begin 30' Samples

1950 – 1980 Sandstone, grey, very fine grained, rounded, well sorted quartzose, many clear and grey grains, trace glauconite grains.

1980 – 2010 Bentonite, tan, soft, lumpy. Shale, greenish grey, chunky, firm, dense, noncalcareous, gritty textured. Siltstone, greenish grey, blocky, hard, dense noncalcareous, tight.

2026 – Sample Top – 2nd Bow Island

2010 – 2040 Sandstone, grey, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, few black chert grains, few glauconite grains.

2040 – 2070 Shale, chocolate brown, chunky, firm to hard, dense, waxy textured, trace orange zeolites. Bentonite, tan, soft, lumpy

2070 – 2100 Shale, lt green, chunky, firm, dense, noncalcareous, waxy textured. Much Bentonite, tan, soft, lumpy.

2100 – 2130 Sandstone, greenish grey, very fine to medium grained, coarse grained in parts, subrounded to angular, poorly sorted quartzose, many clear grains, trace black chert grains, trace glauconite grains.

2134 – Sample Top – 3rd Bow Island

- 2130 – 2160 Sandstone, brownish white, very fine grained, rounded, well sorted quartzose, many clear and grey grains.
- 2160 – 2190 Shale, black, chunky, firm, dense, noncalcareous, waxy textured.
- 2190 – 2220 Bentonite, tan, soft, lumpy, micromicaeous, Shale, lt green, chunky, Soft, dense, noncalcareous, waxy textured.
- 2220 – 2250 Shale, green, grey, chunky, soft to firm, dense, noncalcareous, earthy to waxy many orange zeolites. Textured. Bentonite, tan, soft, lumpy.
- 2250 – 2280 Bentonite, tan, soft, lumpy. Sandstone, brown, very fine grained, rounded, well sorted quartzose.
- 2280 – 2310 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy to gritty Textured. Bentonite, tan, soft, lumpy.

Resume 10' Samples

- 2310 – 2320 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2320 – 2330 Bentonite, tan, soft, lumpy. Shale as above.
- 2330 – 2340 Sandstone, dk grey, very fine grained, well sorted, rounded quartzose many unconsolidated grains in sample pan, many clear and grey grains, trace glauconite grains. Bentonite, tan soft, lumpy. Shale, dk grey, chunky firm, dense noncalcareous, gritty textured.
- 2340 – 2350 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 2350 – 2360 same as above.

2367 – Sample Top – 4th Bow Island “A” Sandstone

- 2360 – 2370 Sandstone, grey, very fine to fine, rounded to subrounded, moderately sorted quartzose, noncalcareous, many clear grains, few black chert grains, few glauconite grains.

2370 – 2380 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear grains, many grey grain, few glauconite grains.

2380 – 2390 same as above.

2390 – 2400 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
bentonite, tan, soft, lumpy. Many unconsolidated grains in sample
pan.

2400 – 2410 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
sandy in parts. Bentonite, tan, soft, lumpy.

2413 – Sample Top – 4th Bow Island “B” Sandstone

2410 – 2420 Sandstone, grey, very fine grained, rounded, well sorted
quartzose, many clear and grey grains, few glauconite grains.

2420 – 2430 same as above becoming slightly coarser grained, very bentonitic.

2430 – 2440 Sandstone, dk grey, very fine grained, rounded to subrounded, well sorted
quartzose, many grey grains, few glauconite grains, bentonitic.

2440 – 2450 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty to sandy
textured. Many unconsolidated grains in sample pan.

2450 – 2460 Shale, grey, chunky, soft to firm, dense, noncalcareous, gritty textured
unconsolidated grains in sample pan.

2460 – 2470 same as above. Bentonite, tan, soft, lumpy.

2470 – 2480 Shale, dk grey, grey, chunky, firm, dense, noncalcareous, earthy textured,
Bentonitic.

2480 – 2490 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy textured,
Micromicaceous.

- 2490 – 2500 same as above. Many unconsolidated grains in sample pan.
- 2500 – 2510 Shale, grey, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2510 – 2520 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear and grey grains, few glauconite grain, bentonitic.
- 2520 – 2530 Many unconsolidated grains in sample pan. Shale, grey, chunky,
firm, dense, noncalcareous, gritty textured. Sandstone as above.

2539 – Sample Top - Dakota

- 2530 – 2540 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured,
micromicaceous. Bentonite, tan, soft, lumpy.
- 2540 – 2550 Sandstone, lt grey, very fine grained, rounded, well sorted quartzose
many clear grains few grey grains.
- 2550 – 2560 Sandstone, clear, very fine grained, rounded to subangular, well sorted
Quartzose, many clear grains, few grey chert grains, bentonitic.

Resume 30' Samples

2582 – Sample Top - Kootenai

- 2560 – 2590 Sandstone, brown, very fine to medium grained, rounded to subangular
Moderately sorted quartzose, many unconsolidated
grains. Bentonite, tan, soft.
- 2590 – 2620 Shale, grey, chunky, firm, dense, noncalcareous, earthy to
gritty textured.

- 2620 – 2650 Sandstone, grey, very fine to fine grained, rounded to subrounded, well to moderately sorted quartzose, many clear grains, many grey shale inclusions many black chert grains.
- 2650 – 2680 Sandstone, grayish white, very fine to fine grained, rounded to subangular, moderately sorted quartzose, many clear grains, many grey and black grains.
- 2680 – 2710 Shale, brick red, green, lt green, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured.
- 2710 – 2740 Sandstone, green, lt green, very fine grained, rounded, well sorted quartzose many unconsolidated grains, many clear grains, orange shale as above. Shale green, chunky, firm, dense, noncalcareous, gritty textured.
- 2740 – 2770 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured. Bentonite, tan, soft, lumpy.
- 2770 – 2800 Sandstone, green, lt green, very fine to fine, rounded to subrounded, well sorted quartzose, many clear and frosted grains, many glauconite grains.
- 2800 – 2830 Shale, green, chunky, firm, dense, noncalcareous, earthy textured, smooth. shale, grey, chunky, firm, dense, noncalcareous, earthy textured.
- 2830 – 2860 Shale, brick red, maroon, green, grey, chunky, firm, dense, noncalcareous, gritty textured. Bentonite, white, soft waxy.
- 2860 – 2890 Shale, multicolored, green, brick red, grey, reddish brown, maroon, chunky, soft to firm, dense, noncalcareous, earthy textured.
- 2890 – 2920 Sandstone, grey, very fine to fine grained, rounded to subangular, moderately Sorted quartzose, many clear grains, many grey grains, many amber grains, Bentonitic.

- 2920 – 2950 Sandstone, dk brown, very fine grained, rounded, well sorted quartzose, Bentonitic, tan, soft, lumpy.
- 2950 – 2980 Shale, brick red, chunky, soft to firm, dense, noncalcareous, gritty textured. turns sample bag bick red.

Begin 10' Samples

- 2980 – 2990 Shale, brown, brick red, chunky, firm, dense, noncalcareous, earthy to gritty textured.
- 2990 – 3000 Shale, green, chunky, soft to firm, dense, noncalcareous, gritty textured, sandy in parts. Bentonite, tan, soft, lumpy.
- 3000 – 3010 Shale, grey, chunky, platy, soft to firm, dense, noncalcareous, gritty textured.
- 3010 – 3020 Shale, multicolored, green, grey, brick red, brown, reddish brown, maroon, chunky, firm, dense, noncalcareous, earthy textured, mottled in parts.
- 3020 – 3030 Sandstone, grey, very fine grained, rounded to subrounded, well sorted quartzose, many clear grains, many black shale inclusions, trace green grains, trace amber grains.
- 3030 – 3040 Sandstone, grayish white, very fine grained, rounded, well sorted quartzose, many clear grains, trace black and grey shale inclusions, trace amber grains.
- 3040 – 3050 Shale, multicolored, brick red, green, grey, brown, maroon, chunky, soft to firm, dense, mottled, noncalcareous, earthy textured, mottled.
- 3050 – 3060 Shale, brick red, grey, green, chunky, firm, dense, noncalcareous, earthy textured, smooth.
- 3060 – 3070 Shale, lt. grey, chunky, blocky, firm, dense, noncalcareous, waxy textured.

3079 – Sample Top - Sunburst

- 3070 – 3080 Shale, mustard yellow, grey, chunky, firm, dense, noncalcareous, Earthy to gritty textured. Many unconsolidated grains in sample pan, very fine grained.
- 3080 – 3090 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, trace amber grains, few grey chert grains.
- 3090 – 3100 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, few grey chert grains, trace amber grains, bentonitic.
- 3100 – 3110 Shale, green, lt green, chunky, firm, dense, noncalcareous, earthy textured Smooth. Mostly Bentonite, tan, cream, soft, lumpy.
- 3110 – 3120 Shale, dk grey, chunky, blocky, firm, dense, noncalcareous, waxy Textured. Bentonite, white, soft, lumpy.
- 3120 – 3130 Shale, lt. greyish, grey, chunky, firm, dense, noncalcareous, waxy textured. much Bentonite, white, soft, lumpy. Many coarse grained, angular orange grains in sample pan. Many unconsolidated grains in sample pan.

3135 – Sample Top - Morrison

- 3130 – 3140 Sandstone, white, tan, clear, very fine to fine grained, rounded to subrounded well to moderately sorted quartzose, many clear and frothy grains. few grey grains.
- 3140 – 3150 Shale, multicolored, brick red, green, lt green, maroon, grey, "baby poop yellow", chunky, soft to firm, dense, noncalcareous, earthy textured.
- 3150 – 3160 Shale, brick red, reddish brown, trace yellow above, chunky, soft to firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy.

- 3160 – 3170 Shale, maroon, greenish grey, grey, chunky, soft to firm, dense, Noncalcareous, earthy to waxy textured. Bentonite, white, soft.
- 3170 – 3180 Shale, baby poop yellow, chunky, soft, noncalcareous, earthy textured. Shale, grey, lt grey, chunky, soft firm, dense, noncalcareous, earthy textured.
- 3180 – 3190 Siltstone, brown, chunky, blocky, firm to hard, dense, very calcareous, tight, no shows. Shale, grey, chunky, soft to firm, dense, calcareous, earthy to gritty textured.
- 3190 – 3200 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured, sandy in parts. Limestone, tan, buff, sublithographic, dense, tight, very calcareous.
- 3208 – E Log Top - Swift
- 3200 - 3210 Sandstone, brown, very fine to fine grained, rounded to subrounded, well sorted, quartzose, many clear and dark grains.
- 3210 – 3220 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, gritty Textured. Many very fine grains in sample pan.
- 3220 – 3230 Sandstone, brown, very fine to fine grained, rounded to subangular, well to Moderately sorted quartzose, many clear grains and few grey grains.
- 3230 – 3240 Sandstone as above. Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 3240 – 3250 Sandstone, brown, very fine to fine grained, rounded, well sorted quartzose many clear grains. Shale dk grey, chunky, soft to firm, dense, noncalcareous gritty textured.

- 3250 – 3260 same as above.
- 3260 – 3270 Sandstone,brown,very fine grained,rounded,well sorted quartzose many clear and grey grains.
- 3270 – 3280 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3280 – 3290 Shale,grey,chunky,platy,firm,dense,noncalcareous,earthy to gritty textured.
- 3290 – 3300 Shale,grey,chunky,platy,firm,dense,noncalcareous,earthy textured.
- 3300 – 3310 Shale,grey,lt grey,chunky,platy,firm,dense,noncalcareous,earthy Textured.
- 3310 – 3320 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3320 – 3330 Shale as above. Shale,tan,light brown,blocky,firm,dense,very calcareous, Slightly gritty textured.
- 3331 – Sample Top - Rierdon(Ellis Formation)
- 3330 – 3340 Marlstone,dove grey,chunky,blocky,firm to hard,dense,very calcareous earthy textured,micropyritic. Marlstone,tan,soft,lumpy,very calcareous. Marlstone,white,soft,lumpy,very calcareous.
- 3340 – 3350 same as above.
- 3350 – 3360 Marlstone,dove grey,chunky,soft to firm,dense,very calcareous,earthy textured,micropyritic.
- 3360 – 3370 same as above.
- 3370 – 3380 Marlstone,dove grey,chunky,firm to hard,dense,very calcareous, earthy textured,micropyritic. Marlstone,tan,soft,lumpy.
- 3380 – 3390 Marlstone as above.

3390 - 3400 Marlstone, dove grey, greenish grey, chunky, firm to hard, dense, very calcareous, micropyrritic. earthy textured. Marlstone, white, soft, lumpy, very calcareous.

3400 – 3410 Marlstone, dove grey, greenish grey, chunky, firm to hard, dense, very calcareous, earthy textured, micropyrritic.

3416 – Sample Top - Sawtooth

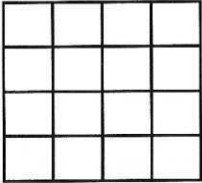
3410 – 3420 Siltstone, lt greenish grey, chunky, firm to hard, dense, very calcareous, gritty to sandy textured, micropyritic, sandy in parts.

3420 – 3430 Siltstone, lt grey, chunky, blocky, firm to hard, dense, very calcareous, micropyritic. Much Pyrite.

3430 – 3440 Siltstone, lt grey, grey, chunky, blocky, firm to hard, dense, very calcareous sandy textured, micropyritic. Much pyrite.

3440 – 3442 Sandstone, tan, cream, very fine grained, rounded, well sorted quartzose, calcareous, many unconsolidated grains in sample pan, no shows.

3442 - Total Depth by Driller



TO
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

COMPLETION REPORT

API # 25 - 073 - 21872

Company ALTAMONT OIL & GAS, INC Lease FIELD Well No. 4-1A
Address PO BOX 488 Field or Area WILDCAT
CUT BANK, MT 59427

Surface Location: 330 ft. from N Line, 380 ft. from E Line, Sec. 4 T 28N R 6W
(N/S) (EW)

County PONDERA Elevation 4,070' GL 4,075' KB
(Surface) (KB)

Date Spud 5/19/2009 Date Completed 5/23/2009 Completed as OIL - SHUT-IN
(Oil, gas, cbm, injection, dry hole, etc.)

The information given herewith is a complete and correct record of the well as of the date of preparation.

Signed [Signature]
Title PRESIDENT & CEO Date 6/30/2010
Telephone (406) 873-9000

For Vertical Well: Total depth 3,468 ft. Plugged back to _____ ft.
For Horizontal or Directionally Drilled Well: Enter well bore and bottom hole location data on page 2 of this form.
For coal bed natural gas well: Static water level _____ ft. below reference elevation of _____ ft.

Casing and Tubing Record

Well Bore	String Type	String		Grade	Length (Feet)	From (MD, Feet)	To (MD, Feet)	Cement (Sacks)	Cement Top (MD, Feet)	Packer Set (MD, Feet)
		Size	Weight							
8-3/4"	Surface	7"	17#/ft	Ltd	17 jts	0	726.67' KB	160	726.67' KB	
6-1/4"	Production	4-1/2"	10.5#/ft	API	85 jts	726.67' KB	3440.91' KB	60	3440.91' KB	

Perforated or Open-hole Intervals

Well Bore	Open Hole/Perf'd Zone		Holes per foot	Size and Type	Open or Isolated (method of isolation)
	Top	Bottom			
4-1/2"	3,444'	3468'	Driller	Open Hole - 3-7/8"	Open
		3460'	Logger		

Acidized, Shot, Fraced, Squeezed, or Cemented

Well Bore	Interval		Treatment Type	Amount and Type of Material	Max. Rate (BBLs/Min)	Max. Pressure (PSI)
	Top	Bottom				
	3444'	3468'	Driller	500 Gal 15% HCl	3.0/min	1300#/s
		3460'	Logger			

Well is producing from Madison/Sun River Dolomite formation(s) or pool(s).

I.P. SI barrels of oil, _____ MCF of gas, and _____ barrels of water per _____ hours.

Sample Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996

Jurassic

Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659

Mississippian

Madison(Sun River Dolomite)

Total Depth:

	---	---
	3542	+633
	3462	+613

CHECK SHEET

Date: 11/5/2007 API Number: 073-21824
Company: AltaMont Oil & Gas Inc.
Well Name: Jody Field 4-1
County: Pondera
Field: Wildcat Pondera
Surf. Location: 330 FNL 430 FEL NE NE Lot: 1 Sec: 4 Twp: 28 N Rng: 6 W

Permit Number: 26160 Drilling Fee: _____

Intention to Drill: 11/5/2007 Expiration Date: 5/5/2008

Mineral Ownership: Private State Federal Indian

Well Type: Vertical Multiple Laterals

Proposed Depth/Formation: MD: 3450 TVD: Madison

Drilling Unit _____ Acres _____ Description: _____

Samples Required: Received: _____

COMPLETION INFORMATION

Completion Date: November 18, 2007 TD: 3545 PBTD: 3463

Completed As: Oil Well IP / Formation: 168 BOD, 0 MCFD, 0 BWD
Madison

Geological Well Report: _____ Mud Log: _____

Sundry Notices: Int - Abandon 1/7/09

Subsequent Report of Abandonment: Received: 7-1-10 Approved: 8-17-10

Electric Logs: PE CN. TD / PE Array Ind / PE CN - Lithodensity AT / 1-7-09
Performance Log / CBL - CAL - VDL - GR - CCL Pressure - Temperature Log / 2-29-09

Miscellaneous: _____

LOCATE WELL CORRECTLY

		4	

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

COMPLETION REPORT

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Form No. 4 R 4-85

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

FEB - 5 2009

MONTANA BOARD OF OIL
& GAS CONSERVATION, BILLINGS

Company ALTAMONT OIL & GAS, INC Lease JODY FIELDS Well No. 4-1

Address PO BOX 200 - CUT BANK MT 59427 Field (or Area) WILDCAT

The well is located 330 ft. from (N) line and 430 ft. from (E) line of Sec. 4

Sec. 3; T. 28N; R. 6W; County PONDERA; Elevation 4070' GL
(D.F., R.B. or G.L.)

Commenced drilling November 5, 2007, ~~X9~~; Completed November 18, 2007, ~~X9~~

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)

Signed 
PATRICK M. MONTALBAN

API# 25-073-21824

Title PRESIDENT & CEO

Date DECEMBER 31, 2008

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>3446'</u> to <u>3452'</u> <u>O & G</u>	From _____ to _____
From <u>3456'</u> to <u>3463'</u> <u>O & G</u>	From _____ to _____
From <u>3467'</u> to <u>3474'</u> <u>O, G & W</u>	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	894.41'	0	894.41'	180 Sacks	Class G Cement
4-1/2"	10.5#/ft	API	ST&C	3545'	894.41'	3454'	100 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7#/ft	J55	ST&C	108 Jts	

COMPLETION RECORD

Rotary tools were used from 0 to 3545'

Cable tools were used from _____ to _____

Total depth 3545 ft.; Plugged back to 3463' T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3446'	3450'	3-1/8" HSC				
3466'	3470'	"				
3470'	3474'	"				

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from MADISON (pool) formation.

I.P. 7 barrels of oil per 1 hours (pumping or flowing)

_____ Mcf of gas per _____ hours.
_____ barrels of water per _____ hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-in	F.P.	S.I.P.	Recovery	Cushion
	NONE							

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
ARRAY INDUCTION LOG	894'	3531'
COMPENSATED NEUTRON & THREE DETECTOR		
DENSITY	894'	3531'

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

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JAN - 7 2009

**MONTANA BOARD OF OIL
& GAS COMB. BILLINGS**

Electric Log Formation Tops

Cretaceous	Depth	Datum
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996
Jurassic		
Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659
Mississippian		
Madison(Sun River Dolomite)	3445	+630
Total Depth:	3539	+536

073-21824

FORM NO. 22 R7/99

SUBMIT IN QUADRUPPLICATE TO:

ARM 36.22.307
ARM 36.22.501**MONTANA BOARD OF OIL AND GAS CONSERVATION**
2535 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102Lease Name:
JODY FIELDLease Type (Private/State/Federal):
PRIVATEWell Number:
#4-1

Unit Agreement Name:

Application for Permit

To: Drill Deepen Re-enter
Oil Gas Other

Operator: ALTAMONT OIL & GAS, INC

Address PO BOX 488

City CUT BANK State MT ZIP 59427

Telephone Number 406.873.9000

Surface Location of Well (quarter-quarter section and footage measurements)

NENENE-SECTION 4-T28N-R6W
(330' FNL x 430' FEL) Lot 1Field Name or Wildcat:
WILDCATObjective Formation(s):
BOW ISLAND, SUNBURST & MADISON
Section, Township, and Range:
Section 4-T28N-R6W

County:

PONDERA

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(if directionally drilled, show both surface and bottom hole locations above)

OCT 17 2007

Proposed total depth

3,450'

Formation at total depth

MADISON/SUN RIVER

Elevation (indicate GL or KB)

4070' GL

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Size and description of drilling/spacing unit

40 ACRES (NE/4) NENE

API number of another well on this lease (if any)

Anticipated spud date

10/20/2007

Hole size	Casing size	Weight/foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
8-3/4"	7"	17#/ft	J55	650'	245 sx	Class G
6-1/4"	4-1/2"	9.5#/ft	J55	3,450'	100 sx	Class G

Describe Proposed Operations:

Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.

Altamont Oil & Gas, Inc proposes to drill this well to test for oil and or gas in the Bow Island, Sunburst & Madison formations. No DST's or cores are planned. Surface casing will be cemented from surface to approximately 650' ensuring good returns to surface. The well will be drilled with air and drilling mud from casing point to TD. Open hole logs will be run from surface to TD. Production zones will be perforated & tested. Blowout equipment will be as indicated on the attached exhibit and will be tested at regular intervals.

BOARD USE ONLY

Approved (date) NOV 05 2007
By Steve Savabe Permit Fee \$2500 / \$5000
Check Number 9060 / 111650
Title **CHIEF FIELD INSPECTOR** Permit Expires MAY - 5 2008
Permit Number 26160

The undersigned hereby certifies that the information contained on this application is true and correct:

Signed (Agent) Patrick M. MontalbanTitle President & CEODate 10/15/2007THIS PERMIT IS SUBJECT TO THE
CONDITIONS OF APPROVAL
STATED ON THE BACKAPI Number 25- 073-21824Samples Required: NONE ALL FROM _____ feet to _____ feetCore chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:
Montana Board of Oil and Gas Conservation
2525 St. Johns Avenue
Billings, MT 59102

Saltwater Pits Shall Be Impermeable

Only freshwater based fluid may be used when
drilling surface hole Rule 36.22.1001

SUPPLEMENTAL INFORMATION

Note: Additional information or attachments may be required by Rule or by special request.

1. Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
2. Attach an 8 $\frac{1}{2}$ x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a $\frac{1}{2}$ mile radius of the well.
3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut /fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor.) Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications.
N/A
5. Describe the proposed plan for the treatment and/or disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
N/A
6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:

No additional permits needed

- Stream crossing permit (apply through county conservation district)
- Air quality permit (apply through Montana Department of Environmental Quality)
- Water discharge permit (apply through Montana Department of Environmental Quality)
- Water use permit (apply through Montana Department of Natural Resources and Conservation)
- Solid waste disposal permit (apply through Montana Department of Environmental Quality)
- State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
- Federal drilling permit (specify agency)
- Other federal, state, county, or local permit or authorization: (specify type) _____

NOTICES:

1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

WARNING: Failure to comply with conditions of approval may void this permit.

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OCT 17 2007

WELL LOCATION

FIELD #4-1
GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.
PONDERA COUNTY, MONTANA
330' FNL X 430' FEL
ELEVATION BEFORE GRADING: 4070'

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS



SCALE 1"=1000'

ELEVATION BEFORE GRADING: 4070'
BASIS - NAVD 29

GEOGRAPHIC COORDINATES:
48°13'15.3" N 112°22'28.4" W (NAD 83 BASIS)

BASE POSITION FOR GEOGRAPHIC COORDINATES:
48°12'38.97587" N 112°22'44.76679" W (NAD 83 BASIS)
(NGS CONTROL POINT CONE, THIRD ORDER)


LAND USE: GRASSLAND

NO ATTEMPT HAS BEEN MADE BY THE SURVEYOR TO LOCATE UNDERGROUND STRUCTURES OR BURIED UTILITIES, AND APPROPRIATE AGENCIES AND SURFACE LANDOWNERS MUST BE CONTACTED FOR FIELD LOCATION OF ANY UNDERGROUND STRUCTURES OR BURIED UTILITIES BEFORE ANY CONSTRUCTION COMMENCES. CALL 1-800-424-5555 BEFORE ANY CONSTRUCTION COMMENCES.

NOTE: SUBDIVISION LINES AND GOVERNMENT LOT BOUNDARIES ARE SHOWN FOR DEPICTIVE PURPOSES ONLY AND SHOULD NOT BE USED FOR SCALING OR LOCATION PURPOSES.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION AND BELIEF, I CERTIFY THAT AS A RESULT OF A SURVEY MADE ON THE GROUND TO THE NORMAL STANDARD OF CARE OF PROFESSIONAL LAND SURVEYORS PRACTICING IN THE STATE OF MONTANA, I FIND THE LOCATION OF THE FIELD #4-1 AS SHOWN ON THE SUBJOINED DRAWING.

John M. Cicon
JOHN M. CICON 4039 LS

REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=1000'
FIELD #4-1 GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.	10-10-07
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 07-113
	SHEET 1 OF 3

DRAWING NO. 07113ALTA.DWG

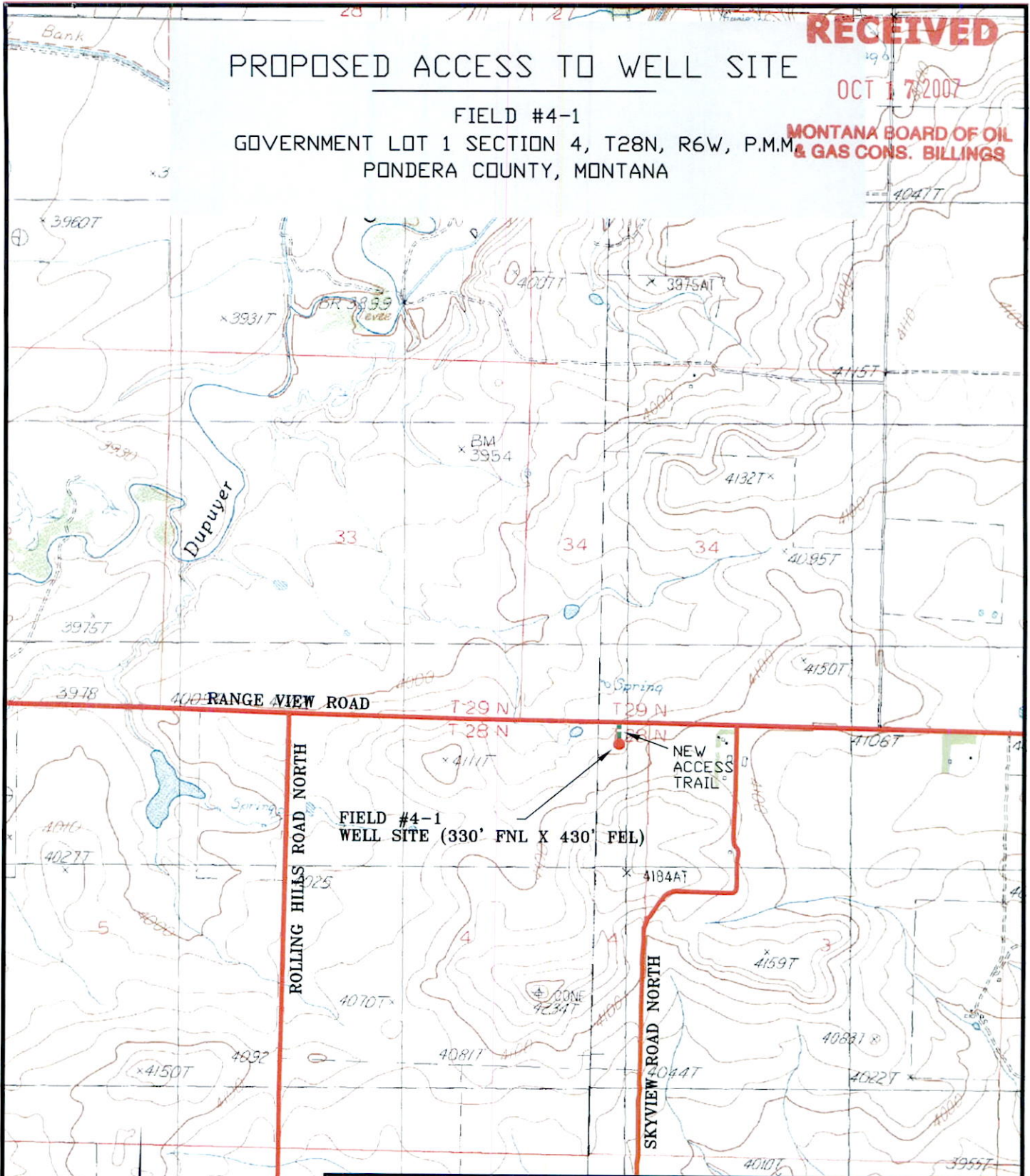
RECEIVED


OCT 17 2007

PROPOSED ACCESS TO WELL SITE

FIELD #4-1
GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.
PONDERA COUNTY, MONTANA

MONTANA BOARD OF OIL & GAS CONS. BILLINGS



REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=2000'
FIELD #4-1 GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.	10-08-07
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 07-113
	PAGE 3 OF 3

DRAWING NO. 07113TOPD.DWG

SCALE 1" = 2000'

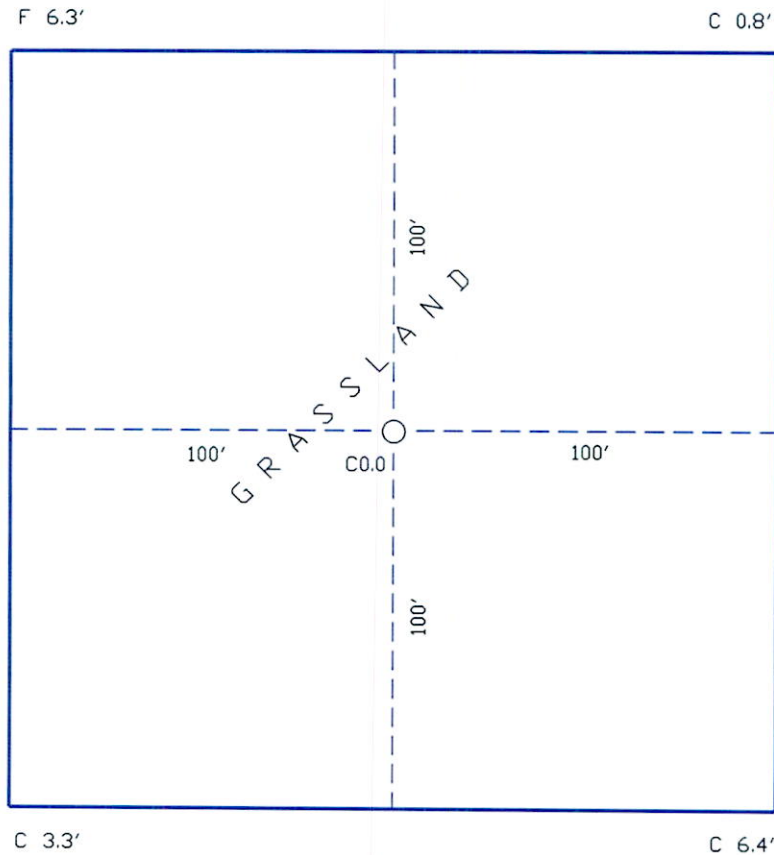
RIG PAD SITE

FIELD #4-1
GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.
PONDERA COUNTY, MONTANA

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OCT 17 2007

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS



GENERAL CUTS AND FILLS OF PROPOSED RIG PAD

LAND USE: GRASSLAND

ELEVATION OF LOCATION BEFORE GRADING: 4070'
BASIS OF ELEVATIONS: NAVD 29

NOTE:
CUTS AND FILLS NOTED ARE FOR PURPOSES OF DESCRIBING
THE GENERAL TOPOGRAPHY OF THE PROPOSED RIG PAD AND
ARE NOT INTENDED FOR CALCULATION OF DIRTWORK QUANTITIES
OR OTHER CALCULATIONS.



SCALE 1" = 50'

REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=50'
FIELD #4-1 GOVERNMENT LOT 1 SECTION 4, T28N, R6W, P.M.M.	10-08-07
CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 07-113
DRAWING NO. 07113CON.DWG	SHEET 2 OF 3

RECEIVED

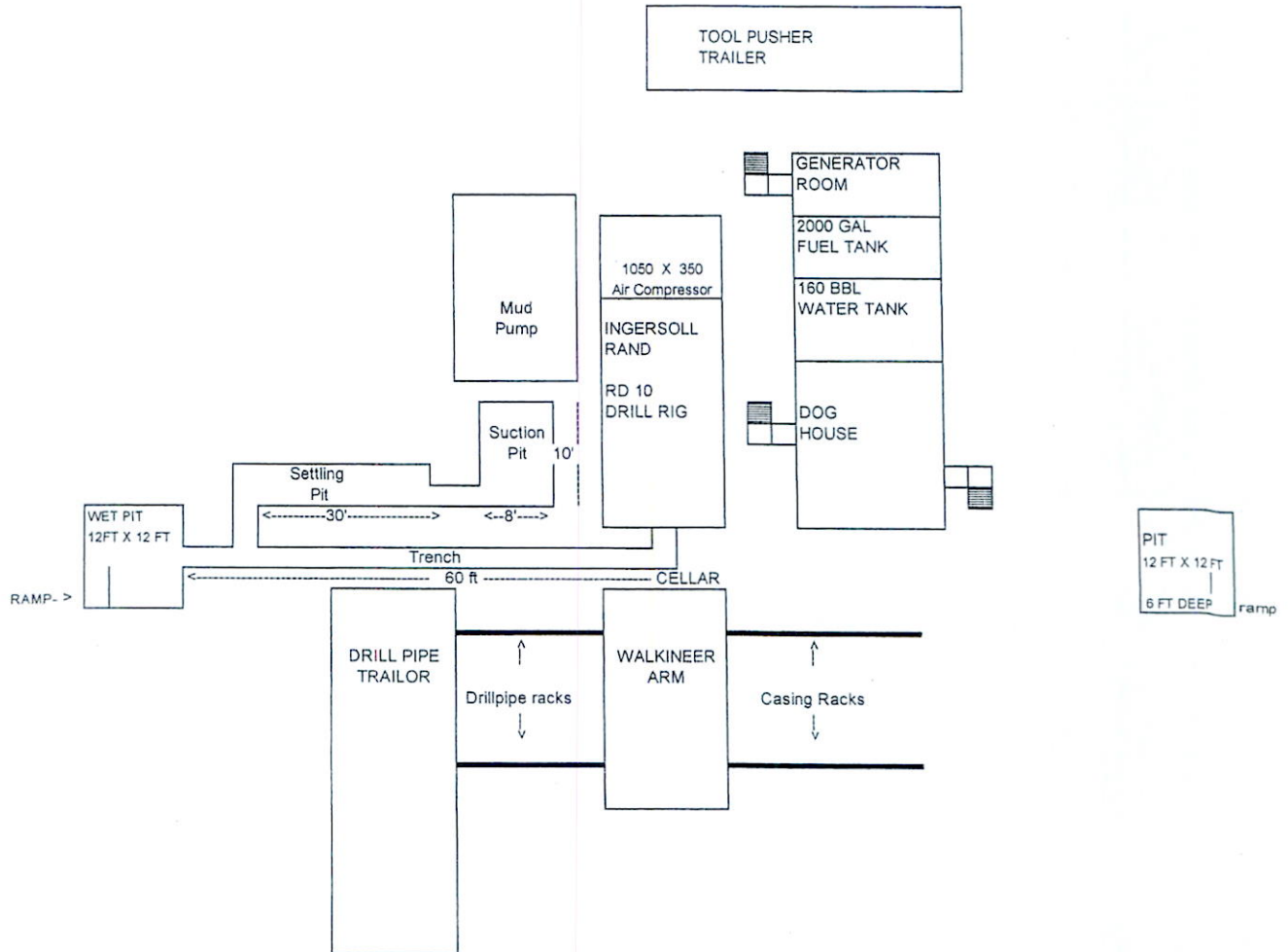
OCT 17 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

LOCATION LAYOUT

Gasco Drilling LLC

P.O. Box 963 Shelby, Mt 59474 Phone (406) 434-3603 Fax (406) 434-3663



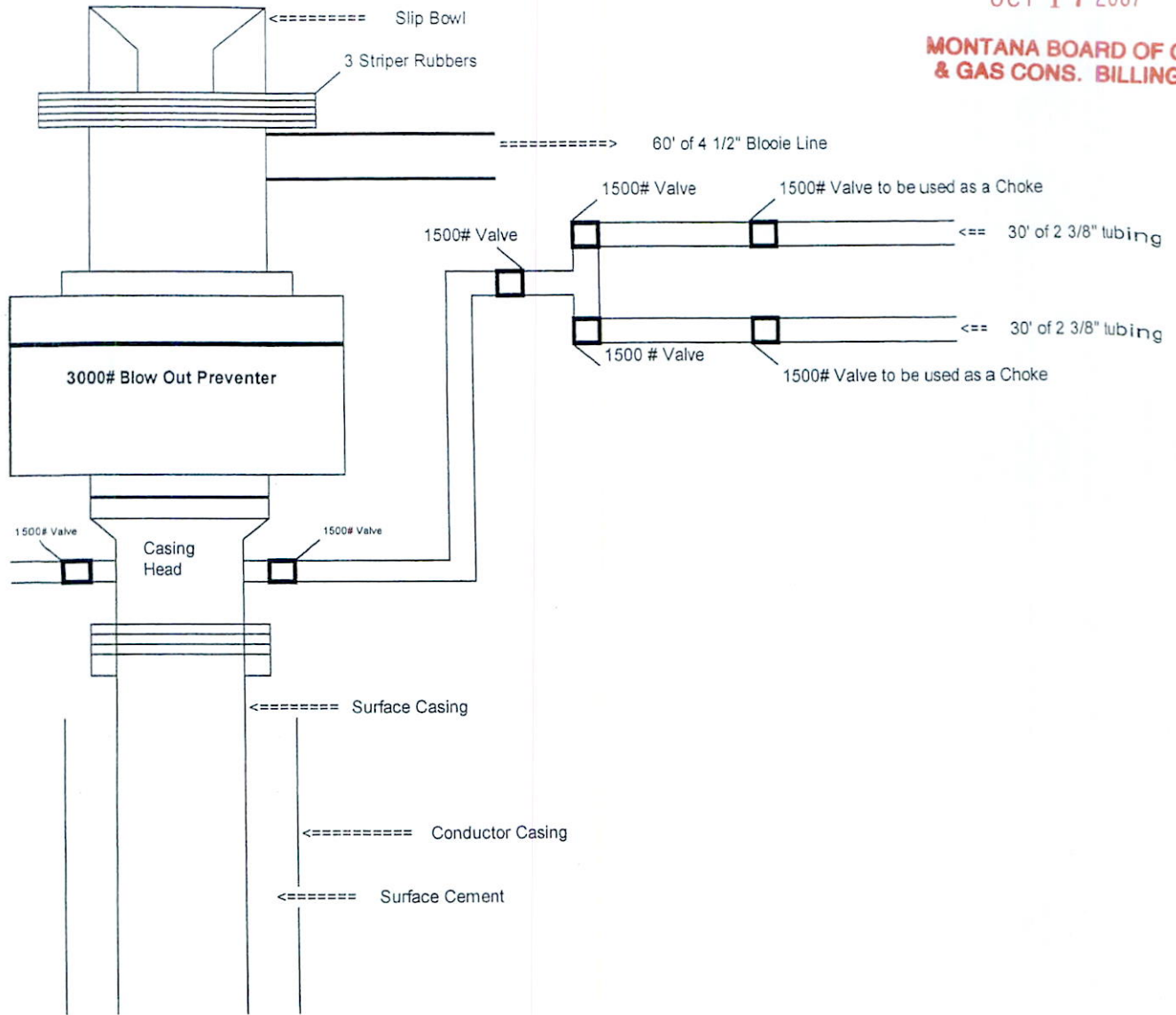
DIMENSIONS OF LOCATION: 200 X 200

SETTLING PIT IS 6' WIDE BY 45' LONG . SUCTION PIT 8' WIDE BY 10' LONG

RECEIVED

OCT 17 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS



BOP STACK

RECEIVED

MAY 28 2004

ALTAMONT OIL & GAS, INC

RECEIVED

OCT 17 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

REGAN OFFSHORE INTERNATIONAL, INC.

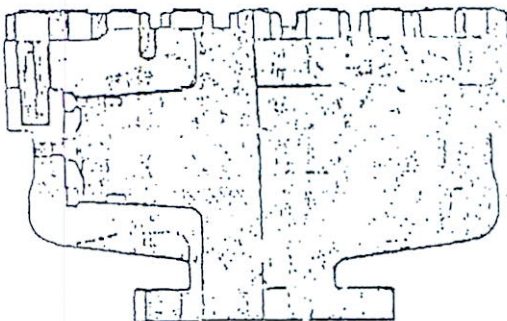
Torrance, Calif.

REGAN BLOWOUT PREVENTERS

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 3000 PSI working pressure

DESIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
 - b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore. The packer will seal on open hole at full working pressure.
- The dual packer design increases the well-ability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



TORUS BLOWOUT PREVENTER PATENTED

SPECIFICATIONS

Nominal Size	Test Pressure (PSI)	DIMENSIONS (in.)			Weight (lbs.)	End Flanges (1)	D/R/R (2)	Sigs. (3)
		Outside Diameter	Thru Bore	Overall Height				
6	1500 1000	37 32 1/2	2 1/2 2 1/4	21 1/2 21 1/4	3300 1850	nom. 1 nom. 2	43	None 2" L.P.
8	2000 1000	31 1/2 25 1/2	2 1 1/2	21 21 1/4	2625 2100	nom. 1 nom. 2	43	None 2" L.P.

(1) Bottom Gate holes standard for use with either 2820 or 2825 per API-40 Series. (2) 1000 psi test with standard seal. (3) Sigs. The Sigs. quantity included for 2000 psi API-40 design unless otherwise specified.

B.O.P. SPECIFICATIONS

Shelby

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

RECEIVED

JUL - 1 2010

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator ALTAMONT OIL & GAS, INC		Lease Name: JODY FIELD	
Address PO BOX 488		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 4-1
Telephone 406-873-9000	Fax 406-873-2835	Unit Agreement Name:	
Location of well (1/4-1/4 section and footage measurements): NENENE (LOT 1) - SECTION 4-T28N-R6W (330' FNL X 430' FEL)		Field Name or Wildcat: WILDCAT	
API Number: 25 073 21824 State County Well		Well Type (oil, gas, injection, other): OIL	
		Township, Range, and Section: SECTION 4 - T28N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input checked="" type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Moved in and rigged up service rig and pulled tubing and rods. Tripped tubing into hole and spotted ten sacks of cement at 3325' - 3550'. Pulled 4-1/2" casing at 900' and spotted a 25 sack plug at 990' - 1120' and a 25 sack plug at 850' - 980'. Spotted 20 sacks at bottom of surface 70' - 0'. Cleaned location and rigged down on February 24, 2009.

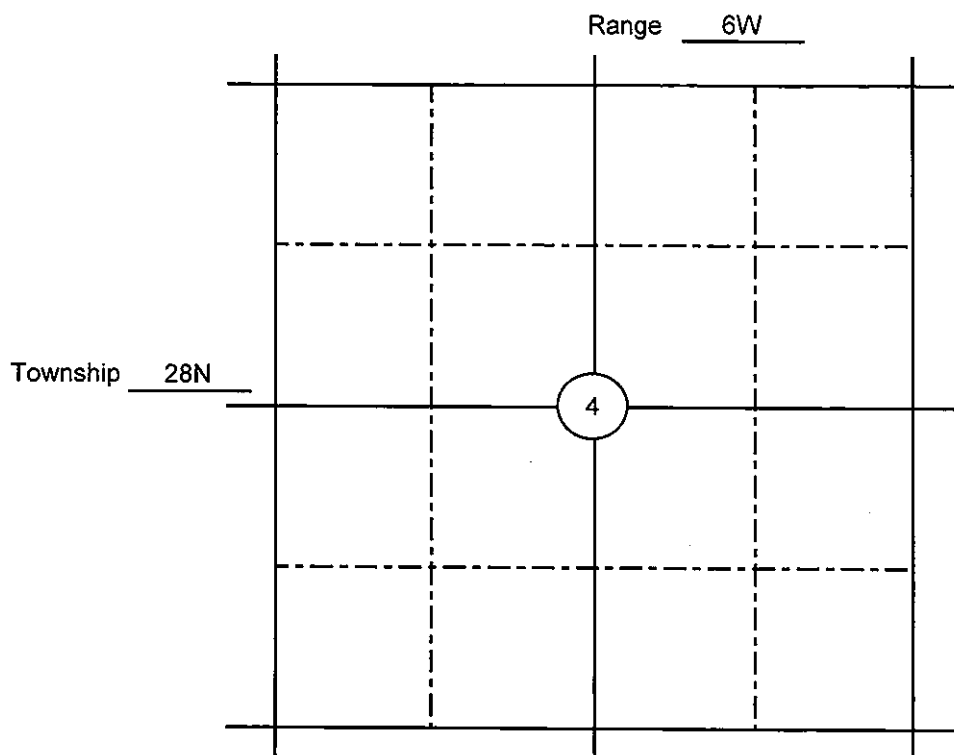
BOARD USE ONLY		The undersigned hereby certifies that the information contained on this application is true and correct.	
Approved <u>AUG 17 2010</u>	Date	6/28/2010	<i>[Signature]</i>
<i>[Signature]</i>	CHIEF FIELD INSPECTOR	Signed (Agent)	
Name	Title	PATRICK M. MONTALBAN, PRESIDENT & CEO	
		Print Name and Title	
		Telephone: 406-873-9000	

LOCATION INSPECTED & APPROVED

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

RECEIVED
 ARM 36.22.307, 601, 605
 1003, 1004, 1011,
 1013, 1103, 1222, 1240
 1301, 1306, 1309, and
 1417
JAN - 7 2009
**MONTANA BOARD OF OIL
 & GAS CONG. BILLINGS**

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

SUNDRY NOTICES AND REPORT OF WELLS

Operator ALTAMONT OIL & GAS, INC		Lease Name: JODY FIELDS
Address PO BOX 488		Lease Type (Private/State/Federal): PRIVATE
City CUT BANK State MT Zip Code 59427	Well Number: #4-1	
Telephone Number (406) 873-5580 Fax Number (406) 873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): NENENE (Lot 1) - Section 4-T28N-R6W (330' FNL x 430' FEL)		Field Name or Wildcat: WILDCAT
If directionally or horizontally drilled, show both surface and bottom hole locations)		Section, Township, and Range: SECTION 4-T28N-R6W
API Number: 25 073 21824	Well Type (oil, gas, injection, other): OIL	County: PONDERA

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Chemical Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input checked="" type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:
 Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.
 Move in and rig up service rig, pull tubing and rods. Trip tubing into hole and spot ten sack plug at 3460' - 3463'. Cut off and pull 4-1/2" casing @ 2800'. Spot 25 sack plug at 2800'. Spot 25 sack plug at bottom of surface (895'). Spot 10 sack plug at surface. Clean location and rig down.

BOARD USE ONLY

Approved: JAN 27 2009 Date

Steve P. Saxabe Name **CHIEF FIELD INSPECTOR** Title

The undersigned hereby certifies that the information contained on this application is true and correct:

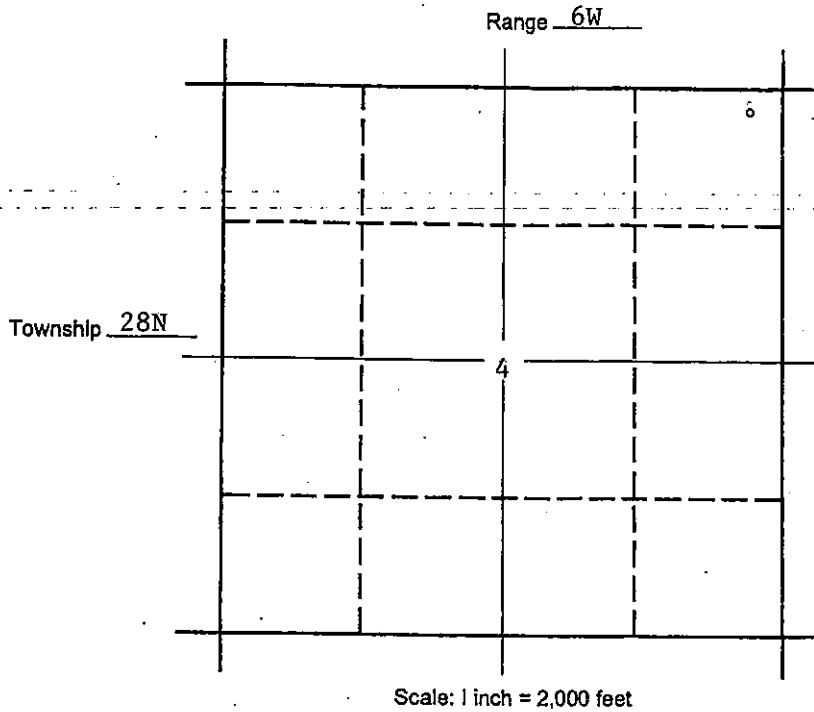
12/4/2008 Date [Signature] Signed (Agent)

Patrick M. Montalban, President & CEO Print Name & Title

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Altamont Oil & Gas, Inc.
Well Name/Number: Jody Field 4-1
Location: NE NE NE, Lot 1 Section 4 T28N R6W
County: Pondera MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 4 to 5 days drilling time.
Unusually deep drilling (high horsepower rig): No, 3450' TD
Possible H2S gas production: Yes
In/near Class I air quality area: No
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

- Air quality permit (AQB review)
- Gas plants/pipelines available for sour gas
- Special equipment/procedures requirements
- Other: _____

Comments: No special concerns – using small rig to drill to 3450' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.
High water table: No
Surface drainage leads to live water: No, no drainages nearby. Some pothole ponds nearby.
Water well contamination: No, closest water well is about ¼ of a mile to the southeast of this location and is only 90' in depth. Surface casing will be drilled with air and/or freshwater mud to 650' and steel surface casing set and cemented to surface from 650'.
Closest water well is about
Porous/permeable soils: No, sandy gravelly soils.
Class I stream drainage: No

Mitigation:

- Lined reserve pit
- Adequate surface casing
- Berms/dykes, re-routed drainage
- Closed mud system
- Off-site disposal of solids/liquids (in approved facility)
- Other: _____

Comments: 650' of surface casing will be set and cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems or air to be used for drilling surface hole.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, stream crossings.

High erosion potential: No, small cut, up to 6.4' and small fill, up to 6.3', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, 200'X200' location size required.
Damage to improvements: No, surface use is cultivated fields.
Conflict with existing land use/values: Slight

Mitigation

- Avoid improvements (topographic tolerance)
- Exception location requested
- Stockpile topsoil
- Stream Crossing Permit (other agency review)
- Reclaim unused part of wellsite if productive
- Special construction methods to enhance reclamation
- Other _____

Comments: Access will be over existing county road, Barrett FLDS. A short road will be constructed, about 300' into this location. Drill cuttings will be buried in the unlined cuttings pit. Drilling fluids will be allowed to evaporate in the pits. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence buildings about 1/4 of a mile to the east of this location.

Possibility of H2S: Yes

Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time.

Mitigation:

- Proper BOP equipment
- Topographic sound barriers
- H2S contingency and/or evacuation plan
- Special equipment/procedures requirements
- Other: _____

Comments: No concerns

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: Lake Frances about 7.5 miles to the northeast.

Creation of new access to wildlife habitat: None identified.

Conflict with game range/refuge management: None identified.

Threatened or endangered Species: None identified.

Mitigation:

- Avoidance (topographic tolerance/exception)
- Other agency review (DFWP, federal agencies, DSL)
- Screening/fencing of pits, drillsite
- Other: _____

Comments: Private surface lands. No concerns

Historical/Cultural/Paleontological

(possible concerns)
Proximity to known sites: None identified, private surface.
Mitigation
 avoidance (topographic tolerance, location exception)
 other agency review (SHPO, DSL, federal agencies)
 Other: _____
Comments: Private surface. No concerns.

Social/Economic

(possible concerns)
 Substantial effect on tax base
 Create demand for new governmental services
 Population increase or relocation
Comments: No concerns.

Remarks or Special Concerns for this site

Well is a 3450' Madison Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No significant impacts expected, some short term impacts are expected, but should be able to mitigate these short term impacts.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki 
(title:) Chief Field Inspector
Date: October 18, 2007

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Pondera County water wells
(subject discussed)
October 18, 2007
(date)

If location was inspected before permit approval:
Inspection date: _____
Inspector: _____
Others present during inspection: _____

RECEIVED

OCT 23 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

AFFIDAVIT OF PUBLICATION
STATE OF MONTANA,

County of Lewis & Clark,

Beverly Allison

Being duly sworn, deposes and says:

That she is the principal clerk of the Independent Record a newspaper of general circulation published daily in the City of Helena, in the County of Lewis & Clark, State of Montana, and has charge of the advertisement thereof:

That the Oil & Gas - Altamont

a true copy of which is hereto annexed, was published in said newspaper on the following dates: viz.: October 21, 2007

making in all 1 publication(s).

Beverly G Allison

Subscribed and sworn to before me this 22 day of October, 2007.

Rose Marie Farr

NOTARY PUBLIC for the State of Montana
Printed Name: Rose Marie Farr
Residing at Helena, Montana
My commission expires 8-15-2010

(NOTARIAL SEAL)

BEFORE THE BOARD OF OIL AND GAS
CONSERVATION
OF THE STATE OF MONTANA NOTICE OF
INTENTION TO APPLY
FOR PERMIT TO DRILL
OIL AND GAS WELL

In the Matter of the application of
ALTAMONT OIL & GAS, INC
for a Permit to Drill an oil and gas well.

1. Name and address of Applicant:
ALTAMONT OIL & GAS, INC
PO Box 488

2. Legal Description including County and Approximate Footages of Surface Location of Proposed Oil and Gas Well: (and projected bottom-hole location, if a directional or horizontal well)
NENENE-Section 4-T28N-R6W
(330' FNL x 430' FEL)

3. Total Depth Proposed to be Drilled:
3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE. OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL, AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
October 21, 2007

Affidavit of Publication

STATE OF MONTANA)

County of Pondera) ss.

John H Lee

John H Lee

being duly sworn upon his oath says: That he is the Publisher of "The independent-Observor," a weekly newspaper of general circulation, published weekly at Conrad, in the County of Pondera, State of Montana.

That the notice hereunto attached was published in the said "Independent-Observor" once each week for... one... successive weeks.

That the first publication of said notice was on the

25th day of October, 2007.

That the last publication of said notice was on the

..... day of n/a, 20.....

That the said notice was published in the regular and entire issue of every said "Independent-Observor" during the period and time of said publication, and in the newspaper proper, and not in a supplement.

John H Lee
Title: Publisher

LEGAL NOTICE

BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA
In the Matter of the application of
) NOTICE OF
) INTENTION TO APPLY
) FOR PERMIT TO DRILL
ALTAMONT OIL & GAS, INC OIL AND GAS
WELL for a Permit to Drill an oil and gas well.)

1. PO Box 488,
Cut Bank, Montana 59427
2. NENENE Section 4-T28N-R6W
(330' FNL x 430' FEL)
Pondera County, Montana
3. Total Proposed Depth: 3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE, OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL, AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas
Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 658-0040
Fax: (406) 655-6015

Published: October 25, 2007

RECEIVED
OCT 26 2007

ALTAMONT OIL & GAS, INC

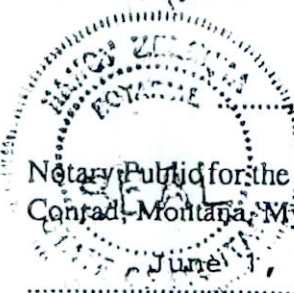
Sworn to and subscribed before me this 25th day of October, 2007.....

Nancy Zelenka

Nancy Zelenka

Notary Public for the State of Montana, residing at Conrad, Montana. My commission expires

June 1, 2010



RECEIVED

NOV 13 2007

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS

SPUD INFORMATION

WELL NAME: Jody Field 4-1

API #: 25-073-21824

LOCATION: S 4 T 28N R 6W
(Twp-Rge-Sec: ¼ ¼)

SPUD TIME: 4:30 pm Actual

DATE: 11-5-07

DRILLING COMPANY: Gasco

RIG #: 5

CALLER'S NAME: Bud Postma

COMPANY NAME: Altamont Oil + Gas

OTHER: Bill Halverson talked to Bud Postma + Pat Montalban on 11-7-07 and found out spudded - did not call in -

Pat Montalban got verbal ok to spud from Billings

Stimulation and Cementing
Additional Data



RECEIVED

JAN 25 2008

SERVICE TICKET

9132182

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS

Treatment Report:

Event #	Time	Pressure (psi)		Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks
		Tubular	Annular					
								2 3/8 tub. 4.7# 4.5 cas. 9.5#
								Rig in Sanjel
	11:25	10			1	10	10	F. 11 hole fresh water
	11:37	10			1	6	16	Pump acid down tubing
	11:45	10			1	13.4	29.4	Displace acid to perfs.
								Rig out pull 18 joints Set Packer
	12:36	500			1.3	1.5	1.5	Press. up annulus Rig into tubing
	12:40	1000			1.5	8	8	Pump acid into formation
								Rig out Job complete



Schlumberger Technology Corporation
300 Schlumberger Drive, Sugar Land, TX 77478

Sales Order

Sales Order	Sales Order Date	Field Service Order	Service Date	Terms
1663986	12/31/2007	11911690	12/01/2007	Net Payable upon Receipt

Bill To: MOUNTAIN VIEW ENERGY, INC PO Box 200 CUT BANK, MT 59427 US		Correspondence Address: Chinook Depot Dacey McManus Schlumberger REW Hwy #2 West CHINOOK, MT 59523 US <i>Tax Registration Number: 22-1692661</i>		
Customer PO 0	Customer A/E 0	Contract 0		
Well Name & Number FIELD JODY 4-1		Field CROCKER SP		
Well Location 4-28N-6W		Offshore Zone/Block		
County/Parish/Borough Pondera		State MT	Price Reference L3-US Land Sept 2008	
Customer Job Representative PATRICK MONTALBAN		Customer Office Representative		

Material	Description	Quantity	UOM	Unit Price	Amount
811101053	SET-8 - ND Service Charge SWPT PS	1.00			
6XFLATCHL	Service Flat Charge - Land	1.00	EA	441.96	990.00
6XSERCHGD	Service Depth Charge	3,544.00	FT	0.18	1,250.00
	Gross Price				2,240.00
	Discount/Surcharge				-1,240.00
	Total				1,000.00
61050801	CMTB - Cement Mapping Tool (1-11/16)	1.00			
6XDEPCHG	Depth Charge	3,544.00	FT	0.24	3,189.80
6XOPECHG	Operation Charge	866.00	FT	0.28	900.00
6XGRDEPH-1	GR in Combo-Depth Charge (descent=1)	3,544.00	FT	0.07	956.88
6XGROPE-1	GR in Combo Ope Charge (descent = 1)	866.00	FT	0.07	233.82
6XOPECHMAP	CMT Mapping Mode	866.00	FT	0.36	1,180.44
	Gross Price				6,440.74
	Discount/Surcharge				-4,690.74
	Total				1,750.00
61HW338PJ3406HMX6	HSD-WL-DP 3.38In,3406 PJ,HMX,6epf	1.00			
6XDEPCHG	Depth Charge	3,544.00	FT	0.07	1,189.52
6XCARLEN	Perforating Carrier Length Charge	4.00	FT	50.30	896.00
6XELECDDET	Perforating Electric Detonation	1.00	EA	43.57	194.00
6XSHOTCHG	Charge Per Shot	17.00	EA	88.39	4,420.00
	Gross Price				6,679.52
	Discount/Surcharge				-5,179.51
	Total				1,500.01
81110300	MAST - ND Crane and Mast Charges	1.00			
6XBLUMAST	Daily Charge - Blue Streak Mast	1.00	DAY	350.00	350.00
	Gross Price				350.00
	Total				350.00
81110200PR	PO-RSR Pack Off and Riser	1.00			
6XPRES0-1	Flat Charge per Day, P<1KPsi	1.00	DAY	415.00	830.00
	Gross Price				830.00
	Discount/Surcharge				-415.00
	Total				418.00

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JAN 07 2008

MOUNTAINVIEW ENERGY LTD

Plant: 6627 Chinook Depot

Manager: Dacey McManus (307) 234-8981

Customer: 10020717

31Dec07:1413

Page 1 of 2

Sales Order

Sales Order	Sales Order Date	Field Service Order	Service Date	Terms		
1663988	12/31/2007	11911890	12/01/2007	Net Payable upon Receipt		
Material	Description	Quantity	UOM	Unit Price	Amount	
61110200MC	WHE-MISC Misc Pressure Related Charges	1.00				
6XWHCON	Flat Charge -Wellhead Connection/Trip	1.00	EA	272.50	545.00	
	Gross Price				545.00	
	Discount/Surcharge				-272.50	
	Total				272.50	
61110500CR	CREW - Crew Miscellaneous Charges	1.00				
6XMILECH	Mileage Charges	906.00	MEI		6,350.43	
	Gross Price				6,350.43	
	Discount/Surcharge				-6,350.43	
	Total				0.00	
61110500CR	CREW - Crew Miscellaneous Charges	1.00				
6XMILECH	Mileage Charges	252.00	MEI		856.80	
	Gross Price				856.80	
	Discount/Surcharge				-856.80	
	Total				0.00	
61110105F	BET-FUEL Fuel SurCharge	1.00				
6XFS3	Fuel Surcharge #2 Diesel \$2.50-3.00 3%	1.00	EA	212.49	212.49	
	Gross Price				212.49	
	Total				212.49	
Service total before tax					5,500.00	
Service total					5,500.00	

RECEIVED
 JAN 07 2008
 MOUNTAINVIEW ENERGY LTD

Sun... (A) Inc.
 200, 505 - 2nd Street, SW
 Calgary, Alberta, Canada
 T2P 1N8
 Telephone: (403) 269-1420

JUN 16 2009



SERVICE TICKET
 9139027

This service ticket is not an invoice; pricing is subject to review and change without notice.

Client Name Altament Oil & Gas			Well Name Field 4-1A			Job Date 10 June 09		
Address Box 482			Location Sec 4 T8N R6W			Service Point Chinook		
			Client Representative Joe Montalban			Pricing Area A		State MT
City Cut Bank	Province/State MT	Postal/Zip Code 59427	Job Type Acid	State MT	County Ponderosa	AFE/PO #		

JUN 16 2009

District	Service, Equipment & Material Type	Code	Quantity	Unit Price	Amount
	Travel Charge				
	Service Charge				
	AS Per Bid				
A2	Sanjel Pumping Charge (includes Travel, 500 gal Acid, delivery & Pumping)		1 ea	3800	3800
A2	Pumping Time	1392	min 1 hr	450 ⁰⁰ /hr	N/C
A2	Standby Time Pump Unit	1390	3 hr	285 ⁰⁰ /hr	
			1 hr N/C	2 hr @ 285	570 ⁰⁰

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JUL - 6 2009

MONTANA BOARD OF OIL & GAS COMB. BILLING

<p>Not Completion work for Altament Field 4-1A</p>	FIELD ESTIMATE		4370 ⁰⁰
	<input type="checkbox"/> Cementing - Prim.	<input checked="" type="checkbox"/> Cementing - Rem.	
	<input type="checkbox"/> Coiled Tubing	<input type="checkbox"/> Nitrogen	
	<input type="checkbox"/> Stimulation	<input type="checkbox"/> Fracturing	
	<input type="checkbox"/> MPCTU	<input type="checkbox"/> Other	
<p>This space is reserved for the Client Coding Stamp.</p>		Sales 1	Sales 2

Comments: Excellent Job! Excellent Hand. Very Good Job!

This signature confirms that I have read and comply with the terms and conditions as noted on the reverse of this document.

x

Stimulation and Remedial Cementing Service Report



SERVICE TICKET

9139027

Client Name <i>Altament Oil & Gas</i>	Well Name <i>Fields 4-1a</i>	Job Date <i>10 June 09</i>
Client Representative <i>Joe Mantalban</i>	Location <i>Sec 4 T23N R26W</i>	Job Type <i>Acid Spore</i>

Description	Size (in)	Weight (lb/ft)	Grade	Max. Press. (psi)	True Measured Depth (TMD)		Capacity (bbls)	Packers and Workover Tools	
					Start (ft)	End (ft)		Type	TMD (ft)
Tubing	2 3/8	4.7	J55		0	3432		Production Packer	
Casing	4 1/2				0	3442		Retrievable Packer	2940
Perforations/OH	6 1/4				3442	3460		Cement Retainer	
								Bridge Plug	
								Selective Injection Packer	

Name	Type	Well Type	Temp (°F)	Pressure (psi)	Height (ft)		Permeability (mD)	Porosity (%)
					Gross	Net		
<i>Madison</i>		<i>Oil</i>						

Wellbore Fluid:				Type:	Density: (lb/gal)	Temp: (°F)	Water:	Bulk:	Slurry:
#	Sacks	Volume (bbls)	Density (lb/gal)	Description	% - Additive	% - Additive	% - Additive	% - Additive	% - Additive
		12	8.4	15% HCl	1.5 gal A1-4	2 gal ASA-3	1 gal D-2	25# ISA-1	

Fluid Compatibility Testing:

Acid Titration: _____ (% HCl Equivalent)

Stability: Pass: Fail: N/A Mesh Size: _____ Time at BHT: _____ min.

Iron Control (Live Acid): Pass: Fail: N/A Live Acid: Pass: Fail: N/A

Emulsion Break Time: Live: _____ min. Spent Acid: Pass: Fail: N/A

Testing Witnessed by: _____ Signature: _____
(Oil Company Representative)

Event #	Time	Pressure (psi)		Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks
		Tubular	Annular					
1	0800							Arrive on Location - Time Requested: 0900
2	1115							Safety Meeting Held
3	1140	1750						Pressure Test 2000 PSI
4	1000	500		3	49			Hole fill
5	1144	250		2	12	61		Pump HCl
6	1150	250		2	11	72		Spot HCl
7	1230	1300		0.35	9.5	81.5	9.5	DSP HCl into formation
								SAM Card #: _____ Start: _____ Finish: _____

Personnel & Equipment:			
Employee	<i>Math Paulsen</i>	<i>Broncha Melchior</i>	Bin # <i>Mile Crty</i>
Employee	<i>Deek Roselrop</i>	<i>Jeremy Becker</i>	Bin #
Unit #	<i>740061</i>	<i>746901 446901</i>	<i>1116</i> MATERIAL
Arrive	<i>0800</i>	<i>0800</i>	TRANSFER
Depart	<i>1700</i>	<i>1300</i>	NUMBERS

Service Comments: Final shut in PSI 1150# @ 5 min 450# - @ 10 min 225# - @ 15 min 175#

* Detailed protocols for Sanjel's compatibility tests are available on request.

ALTAMONT OIL & GAS, INC

PO BOX 488

CUT BANK, MONTANA 59427

FACSIMILE TRANSMITTAL SHEET

TO: Steve Sasaki	FROM: Carla Barringer
COMPANY: Board of Oil & Gas Conservation	DATE: TUESDAY, FEBRUARY 17, 2009
FAX NUMBER: (406) 655-6015	TOTAL NO. OF PAGES INCLUDING COVER: 2
PHONE NUMBER:	SENDER'S PHONE NUMBER: (406) 873-5580
Re: Schlumberger Ticket Perforating of Jody Fields #4-1	YOUR REFERENCE NUMBER: (406) 873-2835

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Hello Steve:

Following is the ticket from Schlumberger for the Jody Fields #4-1. Maybe you can tell that they perforated and what the interval was?

Thank you,

ALTAMONT OIL & GAS, INC

Carla Barringer

Date 1-23-08 (406)652-4400

COMPETITION
WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 13206 LEASE/LOCATION Jody Field #4-1

STATE Montana COUNTY Pondera LEGAL NE NE 4-28N-6W

ELEVATION 4070' KB ELEVATION 4075' DRILLER TD 3545 FIELD W. Jody

COMPETITION PERSONNEL J Seifert, J Brown, A Brown UNIT # 1151/Cut Bank Mt

COMPANY Attament Oil & Gas Inc BY [Signature]

ADDRESS _____

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
		Casing	Lb/Ft	From	To
4501 SERVICE CHARGE: <u>Truck</u>		7"	17#	Surface	894'
4502 SERVICE CHARGE:		4.5"	9.5#	Surface	3545
Mileage Logging unit @ _____ per mile					
Pickup @ _____ per mile					
Mast/crane @ _____ per mile					

Service	4600	Set Plugwell CIBP for 4 1/2 ccs
Depth		3463'
Oper.		min operation chg J
Service	4602	Plug Well 3.50" CIBP
Service	4630	Perforate W 3/4 HP Slick
Depth		3450'
Oper.		17 shots
Service	4645	Gun Barrel 4

Fluid 1100/850 Level (surf) _____
 Competition measurements are from (check One):
 KB GL _____ Prev. Logs _____
 CWS TD NR Driller TD 3545
 Plug model Plugwell Size 3.50" Depth 3463'
 Packer 110PP Size _____ Depth _____

Service	Depth	Oper.	PERFORATIONS			
			Intervals	SPF	Total #	
			3446 - 3450	(4)	4	17

RECEIVED
FEB 6 2008

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

TOTAL PERFORATIONS: 17 titan 19 gram pro perfor

AFE #: APIA 25-073-21824

Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

4600	Power Charge for CIBP	
4502	Pressure Control/Pack Off	
	Subtotal	
	250.00	
	MATERIALS Discount 2	
	Subtotal	
4504	Mileage 80 miles	
4518	F.H.S Charge	
	field total	

Pat. Completion lists
Attament / Jody Field #4-1
set 4th Jody plug
Perforate (3446' - 3450')

Sub total
Other
TOTAL CHARGES
Sales Tax
TOTAL CHARGES

Witnessed by: Patrick Montalman
 Competition WS Starbuck Seifert
 (Please Print)

LIQUID GOLD WELL SERVICE, INC.

RECEIVED

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

MAR - 6 2009

P.O. Box 757
 Cut Bank, MT 59427

MONTANA BOARD OF OIL
 & GAS CONS. BILLINGS

Invoice # 2347

Company Allamorent
 Address _____
 City/State _____
 Lease Sady Field Well #4-1
 Long String _____ Surface Pipe _____ P & A X

Date 2-19-09
 Sec. 4 Twn. 28N Rng. 6W
 County Yondera
 Field Wildcat
 Camera _____

API 25-073-21824

Hole Size _____	Casing <u>4 1/2"</u>	Plug #1 <u>3450'</u>	to <u>3325'</u>	Sacs <u>10 ex</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing <u>2 3/4"</u>	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>3463</u> PBTD _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP _____	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Traveled to location, rig up, takes on water, fill hole with 25 bbls, pump 10 ex cement @ 3% cacl to 1/4" per ex cellophane, displace cement with 12.5 bbls water, wash up and rig down

Quantity	Description
<u>01</u>	Cement Pump Truck
<u>40</u>	Pump Truck Mileage
<u>01</u>	Bulk Cement Truck
<u>40</u>	Bulk Truck Mileage
<u>10 ex</u>	Bulk Cement
	Cellophane
	Polymer
<u>30 #</u>	CaCl
<u>01</u>	Pick Up Charge <u>x 40 miles</u>
<u>01</u>	<u>water truck x 6 hrs</u>
<u>01</u>	<u>fuel surcharges 6% (Pt, Wt, BT)</u>

Cementer

Todd Mohrman, Butch, Leonard

Agent of Owner or Contractor

Date _____

LIQUID GOLD WELL SERVICE, INC.

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

RECEIVED

P.O. Box 757
 Cut Bank, MT 59427

MAR - 6 2009

C.W.O. # **2657**

Company Altamont Date 2-24-09
 Address _____ Sec. 4 Twn. 28N Rng. 6W
 City/State _____ County Poplar
 Lease Fields Well #4-1 Field wildcat
 Long String _____ Surface Pipe _____ P&A X API 25-073-21824

Perfs #1	Casing <u>4 1/2" x 6 1/4"</u>	Plug #1	980 <u>980</u> ' to <u>850</u> '	Sacs <u>25 SX</u>
Perfs #2	Casing <u>4 1/2" x 6 1/4"</u>	Plug #2	<u>1120</u> ' to <u>990</u> '	Sacs <u>25 SX</u>
Tubing	Casing <u>7"</u>	Plug #3	<u>70</u> ' to <u>0</u> '	Sacs <u>20 SX</u>
TD	Casing _____	Plug #4	_____ to _____	Sacs _____
ECP	Casing _____	Plug #5	_____ to _____	Sacs _____

Comments: Traveled to location, rig up, took 100 lbs on water, tried to
rip and pull casing at 1700' couldn't get circulation or pull casing,
try to rip and pull from 900', casing came free thought to be from
900', pumped 25 SX cement and displaced with 13,85 bbls, trip casing out
of hole and found out was pulled casing from 1700', trip taking back
into 1120', pump 25 SX cement, top out of hole, pump 20 SX cement
from surface 70 to 0, wash up and rig down.

Quantity	Description	Unit	Total
01	Cement Pump Truck		
40	Pump Truck Mileage		
01	Bulk Cement Truck		
40	Bulk Truck Mileage <u>x 3.29 hr</u>		
70	Bulk Cement		
	Cellophane		
	Polymer		
141 #	CaCl		
01	Pick Up Charge <u>x 40 miles</u>		
01	Fuel surcharge <u>3%</u>		

Todd Meland, Bretch, Leonard, Bill _____ Date _____
 Cementer
 _____ Date _____
 Agent of Owner or Contractor

LIQUID GOLD WELL SERVICE, INC.

RECEIVED

Cement Work Order

Phone 406-873-2966

Fax 406-873-2997

P.O. Box 757

Cut Bank, MT 59427

DEC 12 2007

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

Invoice # 1743

Company Altamont oil + Gas, inc.
 Address _____
 City/State _____
 Lease _____ Well Jody Feild 4-1
 Long String _____ Surface Pipe P & A _____ Camera _____

Date 11-7-07
 Sec. 4 Twn. 28N Rng. 6W
 County Pendora ND NE NE
 Field _____

35.11 Disp 853 Baffle 1:40 PM Plus clean -

Hole Size _____	Casing <u>7" X 8 3/4</u>	Plug #1 <u>896.91'</u>	to <u>0'</u>	Sacs <u>180 SX</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing _____	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>897'</u> PBTB _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP _____	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Move to, Rig up. Pump 50 Bbls polymer ahead. Pump 180 SX 3 1/2" (coll) 1 1/2" (coll). Prop Plug Displace w/ 35.11 Bbls shut in. Wash up. Rig down.
(7.5 Bbls Returns -)

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>50</u>	Pump Truck Mileage			
<u>01</u>	Bulk Cement Truck			
<u>50</u>	Bulk Truck Mileage			
<u>180</u>	Bulk Cement			
<u>90 #</u>	Calophane			
<u>5901</u>	Polymer			
<u>50</u>	Pick Up Charge			
<u>500 #</u>	<u>COCL</u>			
<u>15%</u>	<u>Exc / Surcharge on pump + Bulk</u>			

Cementer Shane Elms Bill, John Date 11-7-07
 Agent of Owner or Contractor _____
 _____ Date _____

LIQUID GOLD WELL SERVICE, INC.

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

RECEIVED

P.O. Box 757
 Cut Bank, MT 59427

DEC 12 2007

Invoice # 1952

Company AltaMont

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS

Date 11-18-07

Address _____

Sec. 4 Twn. 28N Rng. (6E)

City/State _____

County pondera

Lease Soly Field Well 4-1

Field wild cat

Long String X Surface Pipe _____ P & A _____

Camera _____

API # 25-073-21819

Hole Size	Casing	Plug #1	to	Sacs
<u>6 1/4"</u>	<u>4 1/2"</u>	<u>3546'</u>	<u>2814</u>	<u>100 SX</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing _____	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>3545'</u> PBDT _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP _____	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Travel to location, take on water, pump 10 bbls fresh water ahead, pump 100 SX cement, displace with 57.8 bbls. water, plug down @ 6100 wash up and rig down.

Job location costs
AltaMont / Soly Field 4-1

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>35</u>	Pump Truck Mileage <u>X 35 miles</u>			
<u>01</u>	Bulk Cement Truck			
<u>35</u>	Bulk Truck Mileage <u>X 35 miles</u>			
<u>100 SX</u>	Bulk Cement			
<u>25 #</u>	Cellophane			
<u>01</u>	<u>Polymer float shoe (cement 4 1/2")</u>			
<u>05</u>	<u>4 1/2 centralizers</u>			
<u>0</u>	Pick Up Charge <u>X 35 miles</u>			
<u>950 #</u>	NaCl (salt)			
<u>950 #</u>	Mica			
	Fuel Surcharge 15% (P+BT)			

Cementer

Todd Johnson
 Agent of Owner or Contractor

Date 11-18-07

Date _____

DRILLSTEM TESTS

DST#1:

3,422-33' in Madison (Sun River Dolomite). GTS during initial shut-in, final flow period. Gas flowed @ rate of 9-5 MCFD, decreasing at end.

Preflow:	15 min.
Initial shut-in:	33 min.
Final flow:	60 min.
Final shut-in	95 min.

<u>PRESSURES:</u>	First Period	3,402' Top	3,429' Bottom	
		IHP	1635.3	1648.2
		IFP	107.2	723.6
		FFP	111.5	455.4
		SIP	1061.8	1075.0
	Second Period	IFP	151.9	440.5
		FFP	297.6	730.7
		FSI	1063.6	1075.9
		FHP	1606.1	1617.6

RECOVERY:

Total fluid - 950' - 60' of ammonia cut oil and 890' of gas cut oil.

DST #2:

3,422-33' in Madison (Sun River Dolomite). GTS in 6 min. Flowed @ rate of 21-34 MCFD. Oil to surface during final flow period. Pipe partially unloaded during surge in final flow.

Preflow:	60 min.
Initial shut-in:	60 min.
Final flow:	132 min.
Final shut-in:	45 min.

<u>PRESSURES:</u>	First Period	3,402' Top	3,429' Bottom	
		IHP	1673.7	1694.6
		IFP	75.0	101.2
		FFP	270.1	276.2
		SIP	1061.8	1078.2
	Second Period	IFP	318.6	343.9
		FFP	241.1	262.4
		FSI	1061.0	1074.7
		FHP	1673.7	1694.6

RECOVERY:

Total fluid - 1,010' - 890' of highly gas cut oil and 120' of gas cut water.

CORE DATA

One core was cut in Mississippian Madison (Sun River dolomite) from 3,430-35'. There was no recovery. Penetration rate for the core was 1 to 5 minutes/ft.

DAILY ACTIVITY SUMMARY

(Calendar Days)

- 3/8/82 Moved in and rigged up General Well Service Rig #21. Drilled rat hole.
- 3/9/82 Spudded at 1:30 a.m. Drilled 12-1/4" surface hole to 180'. Set 8-5/8" surface casing with 175 sx. cement plus 3% CaCl at 113'.
- 3/10/82 Nipping up. Tested BOP's to 900#. Held for 15 minutes. Rigged up air equipment.
- 3/11/82 Blew hole dry and drilled with air to 415'. Changed over to mud and water and drilled to 747'.
- 3/12/82 Drilled 747-1,373'. Had tight hole at 778'.
- 3/13/82 Drilled 1,373-1,780'. Tripped for new bit at 1,560'.
- 3/14/82 Drilled 1,780-2,003'. Tripped for new bit at 1,928'.
- 3/15/82 Drilled 2,003-104'.
- 3/16/82 Drilled 2,104-360'.
- 3/17/82 Drilled 2,360-782'.
- 3/18/82 Drilled 2,782-968'.
- 3/19/82 Drilled 2,968-3,065'. Tripped for new bit at 3,009'. Tight hole.
- 3/20/82 Drilled 3,065-254'.
- 3/21/82 Drilled 3,254-419'.
- 3/22/82 Drilled to 3,433'. Conditioned mud. Made short trip to pull out for DST #1.
- 3/23/82 Completed DST #1. Tripped in and conditioned hole for Core #1. Cut core and tripped out.
- 3/24/82 Tripped out with Core #1. Tripped in for DST #2.
- 3/25/82 Ran DST #2. Tripped in. Drilled to 3,482' and conditioned hole.
- 3/26/82 Tripped out to run Schlumberger logs.
- 3/27/82 Set 5-1/2" casing at 3,480'. Tagged plug with 2-7/8" tubing at 3,455'.
- 3/28/82 Rig was released at 10:00 a.m.

L I T H O L O G Y

Sample descriptions begin at 170' in Cretaceous Montana Group beds. Drilling time lag was used to adjust lithology. Formation tops were determined from electrical logs. Samples were examined both wet and dry and described wet. For lithology descriptions, see the enclosed lithologic log.

073-21561

MAX'S TESTING

P. O. BOX 818

CUT BANK, MONTANA 59427



CUSTOMER Occidental Exploration & Production Co.
 WELL NO. #1-34 Field
 WELL LOCATION Sec.34-T29N-R6W
 INTERVAL 3420-3435 T.D. 3435
 COUNTY Pondera

DATE 25-03-82
 TICKET # 863 DST.# Two
 FORMATION Madison
 TYPE OF TEST Bottom Hole
 KB ELV. 4045
 GR ELV. 4035
 Ft NET PAY
 STATE Montana

Occidental Exploration & Production Co.
 #1-34
 Wildcat
 863
 Two
 3420-3435

RECORDER DATA ALL MEASUREMENTS ARE IMPERIAL TIME DATA [CONVENTIONAL]

PF 60	REC.#	10981	10982
SI 60	DEPTH	3402	3431
SF 132	CLOCK	21132	21134
FS 45	BLANKED OFF	No	Yes
		PSI	PSI
A. Init. Hyd.		1670.2	1673.7
B. First Flow		75.9	75.0
Bl. Final Flow		273.6	270.1
C. In Shut-in		1065.3	1061.8
D. Init. Flow		321.3	318.6
E. Final Flow		247.2	241.1
F. Fi Shut-in		1065.3	1061.0
G. Final Hyd.		1670.2	1673.7
		Field	Computed

PF fr.	08:58 to	09:58	HR.
IS fr.	09:58 to	10:58	HR.
SF fr.	10:58 to	13:10	HR.
FS fr.	13:10 to	13:55	HR.
TIME STARTED		12:05	HR.
TIME ON BTM		08:45	HR.
TIME OPEN		08:58	HR.
TIME PULLED		13:55	HR.
TIME OUT		17:30	HR.

MUD DATA

MUD TYPE	Gel
MUD WEIGHT	9.3
VISCOSITY	75
WATER LOSS	5.4
FILTER CAKE	2/32
MUD DROP	-

SAMPLER DATA

SURFACE PRESSURE	245
CUBIC FT. GAS	.6
C. C. OIL	1050
C. C. Mud	300
TOTAL C.C. LIQUID	1350
GRAVITY @ 60°F	33.4
GAS/OIL RATIO	90.7

GENERAL DATA

SURFACE CHOKE	1/4-2-1/4
BTM. CHOKE	.75
HOLE SIZE	Nil
AMT. OF FILL	Nil
BTM.H.TEMP	77
POROSITY I	-
HOLE COND	Good
CUSHION AMT	Nil
CUSHION TYPE	Nil
BACK PRESS. VAL.	Nil
TESTER	DeKaye
WITNESS	Warner
CONTRACTOR	General Well Service
RIG #	#21 co/26

RECOVERY
 TOTAL FLUID 1010 ft of 505 ft in D.C. and 505 ft in D.P.
 890 ft of Highly gas cut with trace of
 - ft of mud Oil after unloading.
 120 ft of Gas cut water
 - ft of -

FLUID	RESISTIVITY	TEMP	Cl. CONTENT
MUD PIT	2.40	52	2900
MUD PIT FILTRATE	1.95	52	3700
RECOVERED WATER	-	-	-
RECOVERED MUD	-	-	-
RECOVERED MUD FILTRATE	-	-	-

REMARKS:
 Opened Tool at 08.58 hrs with strong blow off bottom of 5 gallon bucket of water. Turned to 2 inch line. Gas to surface at 09.04 hrs. Turned to 1/4 inch orifice-1 1/2 lbs (21 MCF) Peaking at 3 lbs (24.0 MCF) then decreasing to 2 1/2 pounds.
 Closed Tool at 09.58 hrs.
 Opened Tool at 10.58 hrs with strong blow-turned to 1/4 inch orifice-(1 1/2 lbs-21 MCF) Peaked at 10 lbs (34.0 MCF) Sursing-Sursed for remainder of flow period. Mud and Oil to surface at 12.25 hrs.
 Closed Tool at 13.10 hrs.
 Pulled off bottom at 13.55 hrs.

TEST SUCCESSFUL

#2

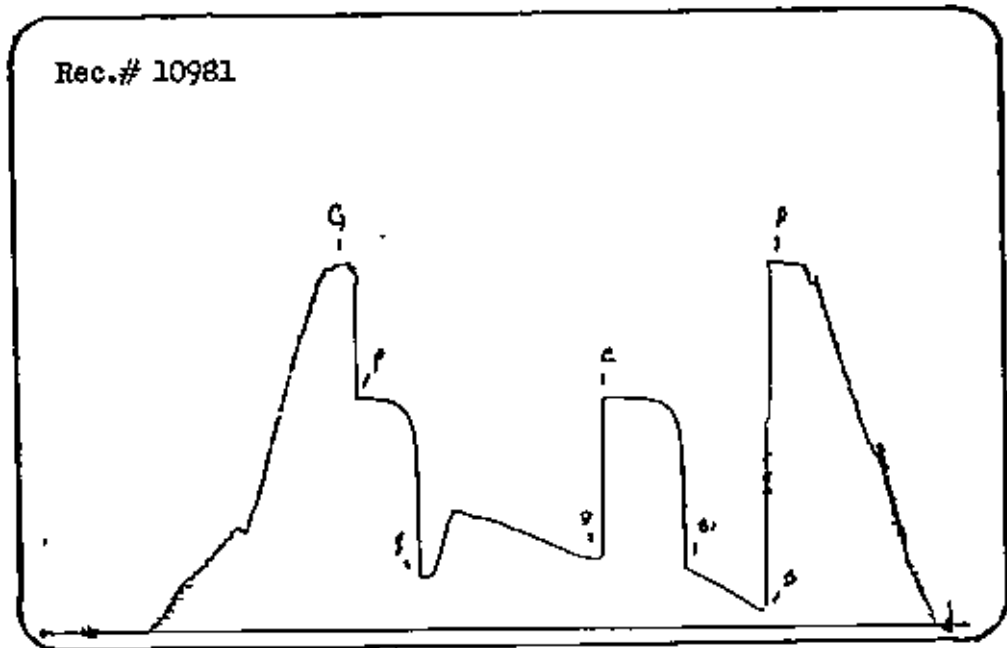
NAME: Field #1-34 DATE: 25-03-82
 LOCATION: Sec.34-T29N-R6W TK#: 863 DST#: Two

TIME	CHOKE SIZE in.	SURFACE PRESSURE lbs.	FLOW RATE MCF/D	LIGUID	REMARKS
09:04 00:00					Gas to surface.
09:14 00:00	1/4	2 1/2	23.0	None	Increasing slightly.
09:24 00:00	1/4	2 1/2	23.0	None	As above.
09:34 00:00	1/4	3	24.0	None	Peaked.
09:44 00:00	1/4	2 1/2	23.0	None	Holding steady.
09:54 00:00	1/4	2 1/2	23.0	None	As above
09:58 00:00					Closed tool
10:58 00:00					Open tool
11:08 00:00	1/4	2 1/2	23.0	None	Starting to surge.
11:18 00:00	1/4	2.0	22.0	None	As above
11:28 00:00	1/4	1	21.0	None	As above
11:38 00:00	1/4	5 1/2	27.0	None	Surging at moderate rate.
11:48 00:00	1/4	6 1/2	29.0	None	As above
11:58 00:00	1/4	7 1/2	30.0	None	Surging between 7 1/2 & 1
12:08 00:00	1/4	1	21.0	None	As above
12:18 00:00	1/4	1/2			
12:25 00:00					Mud & Oil to surface—took out chokes unloading hole—very highly gas cut.
13:10 00:00					Closed tool
13:55					Pulled off bottom.

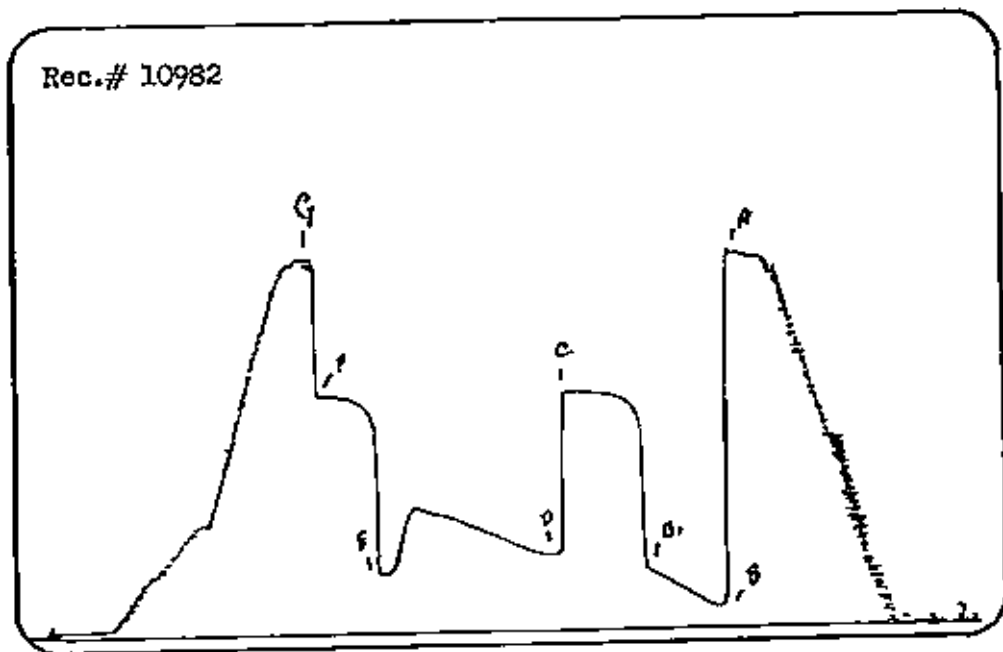
2

Field # 1-34 Sec.34-T29N-R6W T.# 863 DST.# 2

Rec.# 10981



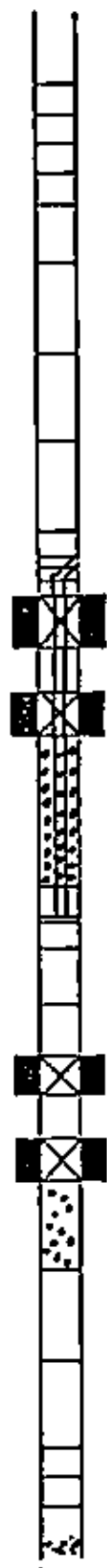
Rec.# 10982



2

NAME: Field #1-34 DATE: 25-03-82
 LOCATION: Sec.34-T29N-R6W TK#: 863 DST#: Two

	O.D. INCHES	I.D. INCHES	LENGTH FEET	DEPTH FEET
Drill Pipe	3.50	2.76	2881.00	
Reverse sub	5.75	2.50	1.00	
Water Cushion Valve				
Drill Collars	2.50	2.25	505.00	
Double Pin	6.00	2.25	.90	
Sampler	5.00	.75	81.00	3395.00
Shut-in Tool				
Hydraulic Valve	5.00	.75	5.00	3400.00
BT Case	5.00	2.69	5.00	3402.00
Jars	5.00	1.00	5.00	
Safety Joint	4.75	2.69	1.75	
Equalization Adapter				
PACKER ASSEMBLY XL 1	6.75	1.50	8.56	3420.00
PACKER ASSEMBLY 2				
Equalization Pipe				
Perforated Anchor Adapter	5.00	2.50	10.00	
Blacked off BT Gauge				
PACKER ASSEMBLY 3				
PACKER ASSEMBLY 4				
Perforated Anchor				
Side Wall Anchor				
Drill Collars				
Drill Pipe				
Blacked OFF BT Case	5.00	0.00	4.23	3431.00
T.D.				3435.00



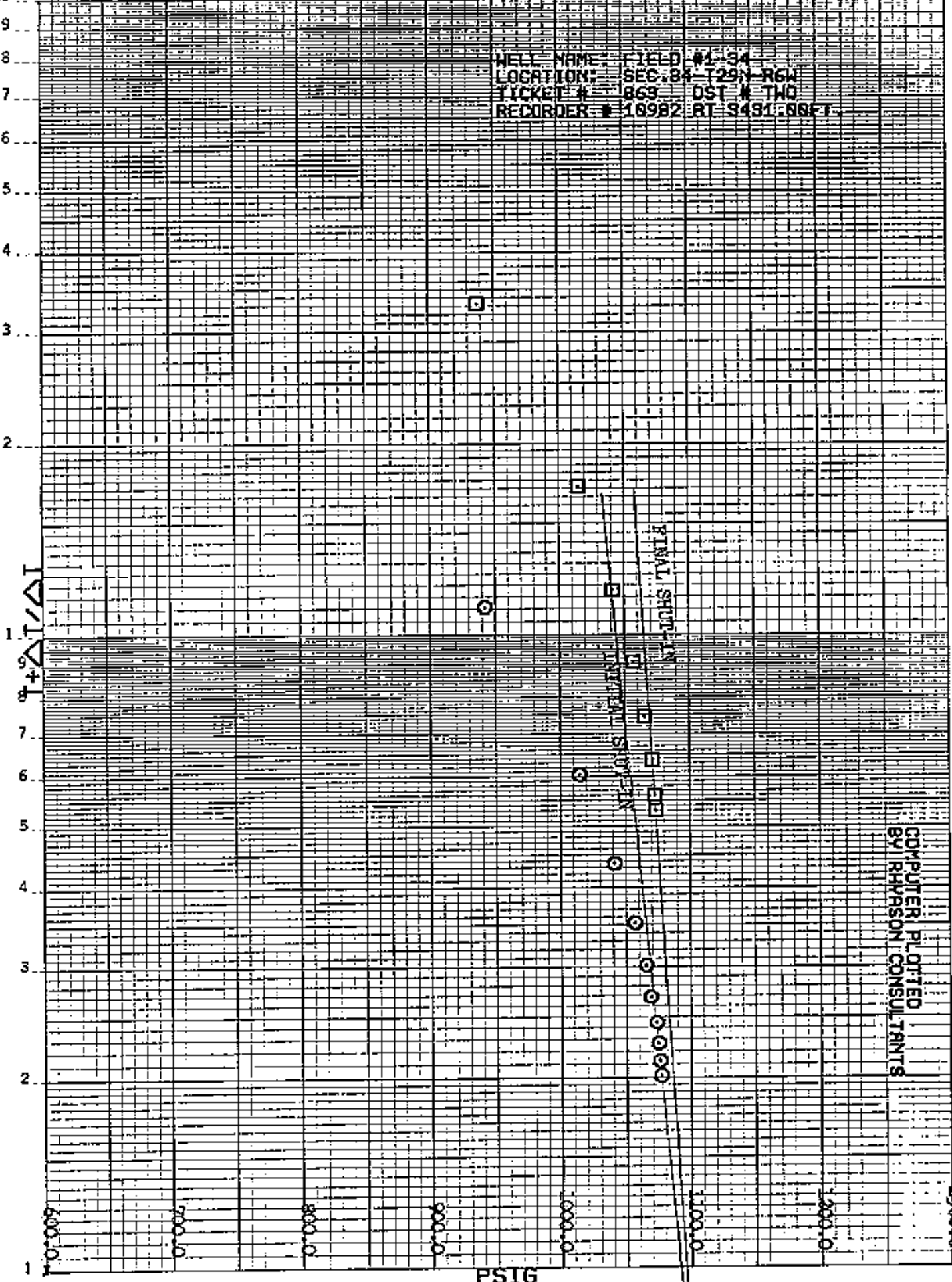
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K&E SEMI-LOGARITHMIC #2 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 4970

HORNER

WELL NAME: FIELD #1-34
LOCATION: SEC. 84 T29N R6W
TICKET # 869 DST # TWO
RECORDER # 18982 RT 9491-8851



COMPUTER PLOTTED
BY RHYSON CONSULTANTS

PSIG

#2

WELL NAME & LOCATION : FIELD #1-34 SEC.34-T29N-R6W
 TICKET# 863 DST# TWO
 RECORDER #: 10982 AT 3431.00 FT.

TO = : 60

T = : 192

INITIAL SHUT-IN TIME	$\frac{T_0 + \Delta T}{\Delta T}$	PSIG	KPA	$\frac{PSIG^2}{10^6}$	*	FINAL SHUT-IN TIME	$\frac{T + \Delta T}{\Delta T}$	PSIG	KPA	$\frac{PSIG^2}{10^6}$
0	-	276.2	1904	.076	*	0	-	262.4	1809	.069
6	11.00	843.2	6503	.890	*	6	33.00	838.0	6467	.880
12	6.00	1016.3	7007	1.033	*	12	17.00	1016.3	7007	1.033
18	4.33	1043.0	7191	1.088	*	18	11.67	1042.1	7185	1.086
24	3.50	1058.3	7288	1.120	*	24	9.00	1058.3	7288	1.120
30	3.00	1067.0	7356	1.138	*	30	7.40	1066.2	7351	1.137
36	2.67	1070.4	7380	1.146	*	36	6.33	1072.1	7391	1.149
42	2.43	1074.7	7409	1.153	*	42	5.57	1073.9	7404	1.153
48	2.25	1076.5	7422	1.159	*	45	5.27	1074.7	7409	1.153
54	2.11	1077.3	7427	1.161	*					
60	2.00	1078.2	7433	1.163	*					

DATA

	INITIAL SHUT-IN	FINAL SHUT-IN
NO. OF INCREMENTS-----	10	8
NO. OF POINTS EXTRAPOLATED-----	4	3
SLOPE OF EXTRAPOLATED LINE-----	48	31
EXTRAPOLATED PRESSURE-----	1092.00 PSI	1096.00 PSI

RESERVOIR PROPERTIES

INTERVAL-----	15	FEET
RESEVOIR TEMPERATURE-----	77	F
TOTAL FLOW TIME-----	192	MIN.
FINAL FLOW PRESSURE-----	262.40	PSI
GROUND ELEVATION-----	4035	FT.
RECORDER#10982 DEPTH-----	3431	FT.
POROSITY-----	-	%
D.C. RECOVERY-----	505	FT. OF GAS CUT OIL
D.P. RECOVERY-----	365	FT. OF GAS CUT OIL

CALCULATION RESULTS

DAMAGE RATIO = 5.45 ** IMPERIAL

--OIL RECOVERY--

TRANSMISSIBILITY-----	165.42	MD-FT/CP
AVERAGE PERMABILITY-----	11.03	MD
INSITU CAPACITY-----	165.45	MD-FT
RADIUS OF INVESTIGATION-----	46.02	FT.
POTENTIOMETRIC SURFACE-----	1926.66	FT.
PRODUCTIVITY INDEX-----	.06	BBL/DAY-PSI
TEST PRODUCTION OIL-----	48.52	BBL/DAY

EST'D RECOVERY DAMAGE REMOVED-- 264.43 BBL/DAY

COMPUTATIONS BY RHYASON CONSULTANTS
 PH: 265-6788

MONTANA OIL WELL CEMENTERS, INC.

RADIO DISPATCHED UNITS

P.O. Box 226, Cut Bank, Montana 59427
(406) 873-4211 & Havre: (406) 265-4402

PHONES: 873-4211
Cut Bank 873-2628
Havre 265-4402
Mobile 873-4702

12 376

ACIDIZING WORK ORDER & INVOICE

Remit to P.O. Box 226, Cut Bank, Montana 59427

HFE # 282-304-1223

District C.B. Date 4-29-82 P.O. No. _____ Treatment Log. No. 265

Company Oxy. Petroleum Inc.

Mail Invoice To 999 17th 1st Denver Place

Address Denver Colo 80202

Lease & Well No. Field 1-34 Job Started 8:00 P.M. Job Completed 10:00 P.M.

County Denver State MT Field W.C. Section 34 Township 29 Range 6W

Type of Well: Workover Exploratory Development Other: (write in) _____

Treatment No. 1 Zone Madison

Hole Data: Bore Size _____ Total Depth _____ Rotary Cable Tool Air

Casing: New Used Size 5 1/2 Weight 17 Depth 3480 Type _____

Perforations: From 3424 - 3428 to _____

Treated Perfs.: From 3424 3428 to _____

Tubing or Drill Pipe: Size 2 7/8 Weight 6.5 Total Depth 3377

Packer Baker Full Bore Retractable Packer Set at 3377

Previous Treatment None

Reg. Acid—Gals. 1000 gal 15% HCL

Pressure 1500

Truck # 9 Mileage 40 Transport _____

Treater Ben Driver(s) Fred

Additives Inhibitor 100

Non-Emission

Iron Sequestering



TERMS: Cash at time of sale—Net 30 days to approved credit accounts. After 30 days accounts will be charged 1 1/2% per month service charge on unpaid balance. If necessary, to resort to legal action to collect any account such account will be charged with all collection costs—including reasonable attorneys fees.

CONDITIONS, WARRANTY AND RESPONSIBILITY: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor.

It is expressly understood that Montana Oil Well Cementers, Inc. shall not be responsible for damages or losses, direct, indirect, special, consequential, or of any kind whatsoever, occasioned by or incident to the use of Montana Oil Well Cementers, Inc. products and accessory equipment, or part thereof, whether resulting from the negligence of Montana Oil Well Cementers, Inc. or any of its agents, servants or employees.

The entire warranty or guarantee and responsibility, either expressed or implied, by Montana Oil Well Cementers, Inc. is expressed above and no agent, dealer or representative, connected with or employed directly or indirectly by Montana Oil Well Cementers, Inc. has authority to verbally or in written form alter, extend or exceed the warranties or guarantees and responsibilities expressed herein.

I have read, understand and accept the foregoing conditions, warranty or guarantee and responsibility and represent that I am authorized to sign this order as agent of the owner or contractor. I certify that the above material has been used; that the basis for charges are correctly stated; and that I am authorized to sign this memorandum as agent of owner or contractor.

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED
Owner or Contractor Oxy. Petroleum By [Signature]

Phones: 873-4211
873-2628
265-4402
Mobile: 873-4702

MONTANA OIL WELL CEMENTERS, INC.

P. O. Box 226 Cut Bank, Montana 59427

No. 10007

WORK ORDER & INVOICE

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED

District Cut Bank Date 3/27/82 Order No. _____ Req. No. _____
 Company Oxy Petroleum
 Contractor GENERAL WELL SERVICE RIG #21
 Lease and Well No. Field 1-34 Job Started: 1:00 P.M. Job Compl: 4:00 P.M.
 County and State ROCKWELL, MONT. Field W/C Section 34 Township 29N Range 2W
 Mail Invoice To Oxy Petro.
 Address 123 W 1st St SE 2209 Casper, Wyo

Type of Well: Workover Exploratory Development Other
 Type of Job: Sur. Inter. Prod. Squeeze Pumping P & A
 P. B. Other (Write In) _____
 Casing: New Used Size 5 1/2" Weight 17.10 Depth 3487' Type _____
 Hole Data: Bore Size: 7 7/8" Total Depth 3485' Rotary Cable Tool
 Tubing or Drill Pipe: Size _____ Type _____ Weight _____ Total Depth _____
 Cementing Packer: Size _____ Type _____ Weight _____ Depth Set _____
 Type Float Equipment: GUIDE SHOE, DOPP FILL COLLAR, 1 LOK RING, 17 CENT.

P & A Data: _____ No. Sacks _____
 Plug No. 1 - From _____ To _____ Plug No. 5 - From _____ To _____
 Plug No. 2 - From _____ To _____ Plug No. 6 - From _____ To _____
 Plug No. 3 - From _____ To _____ Plug No. 7 - From _____ To _____
 Plug No. 4 - From _____ To _____ Plug No. 8 - From _____ To _____
 Others _____
 Cement Data: Bulk Sacked Mixed Wt. Per Gal. _____ Sacks _____ Type _____
 Admix 130sx mont. lite cement 70sx CLASS C 14.5 PPG
 Plugs & Heads: Top Plug 5 1/2" Type POWER; Bottom Plug _____ Type _____ Type Head _____
 Pressure: Circulating _____ Minimum _____ Maximum 200

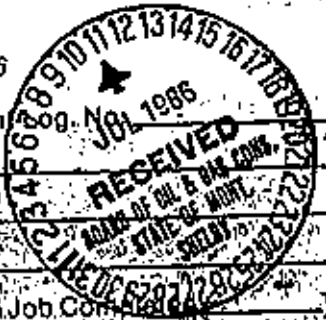


Displacement Data: Displaced with _____ Barrels Plug back at _____
 Remarks: Pump 10 BBS and flush 10 BBS HD ahead of 130 SX MONT. LIGHT CEMENT followed by 70 SX TYPE C. which mixes & DISAPPEARS with 80 BBS HOT WATER. Pump plug with 800 PSI. float did hold.

WORK ORDER & INVOICE

Remit to P.O. Box 226, Cut Bank, Montana 59427-0226

District _____ Date 5-18-82 P.O. No. _____ Treatment _____
 Company Frank's Oil Co
 Mail Invoice To IT FEMIN
 Address Cut Bank MT
 Lease & Well No. Field 1-34 Job Started _____
 County Carbon State MT Field W/C Section _____ Township _____ Range _____



Type of Well: Workover Exploratory Development Zone Production Line
 Hole Data: Bore Size _____ Total Depth _____ Rotary Cable Tool Air
 Casing: New Used Size _____ Weight _____ Depth _____ Type _____
 Perforations: From _____ To _____ From _____ To _____ From _____ To _____
 Treated Perfs: From _____ To _____ From _____ To _____ From _____ To _____
 Tubing or Drill Pipe: Size 2 7/8 Weight 6.7 Total Depth 3443'
 Packer SIC Set at 3383
 Previous Treatment _____
 Reg. Acid - Gals 500 yellow 200 HCL
 Pressure 1000
 Truck ATV Mileage 37 Transport Mileage _____
 Treater BEN Driver(s) JUD
 Additives Tubing - SURETREAT

Phones: 873-4211
873-2628
265-4402
Mobile: 873-4702

MONTANA OIL WELL CEMENTERS, INC

P. O. Box 226 Cut Bank, Montana 59427

WORK ORDER & INVOICE

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED



District: Cut Bank Date: 3/19/82 Order No. _____
Company: ROY PETROLEUM INC.
Contractor: GENERAL VIEW SERVICE Rig #21
Lease and Well No.: Field 1234 Job Started: 3:45 P.M. Job Comp: 4:15 P.M.
County and State: POUNDERA, MONT. Field: WIC Section: 24 Twp: 24N Range: 6W
Mail Invoice To: ROY PETROLEUM INC. GENERAL VIEW SERVICE
Address: PO BOX 300 - CUT BANK, MONTANA

Type of Well: Workover, Exploratory, Development, Other
Type of Job: Sur., Inter. Prod. Squeeze Pumping P & A
P. B. Other (Write In) _____

Casing: New Used Size: 8 5/8" Weight: 211 lb Depth: 178' Type: RL
Hole Data: Bore Size: 10 1/4" Total Depth: 175' Rotary Cable Tool
Tubing Or Drill Pipe: Size _____ Type _____ Weight _____ Total Depth _____
Cementing Packer: Size _____ Type _____ Weight _____ Depth Set _____
Type Float Equipment: GUIDE SHOE, INSERT FLOAT, 3 CENTRALIZERS, 1 LOCK-RING

P & A Date:	No. Sacks	No. Sacks
Plug No. 1 - From _____ To _____		Plug No. 5 - From _____ To _____
Plug No. 2 - From _____ To _____		Plug No. 6 - From _____ To _____
Plug No. 3 - From _____ To _____		Plug No. 7 - From _____ To _____
Plug No. 4 - From _____ To _____		Plug No. 8 - From _____ To _____

Others _____
Cement Data: Bulk Sacked Mixed Wt. Per Gal. 14.5 Sacks 100 Type C Brand DEEM
Admix: 3% CAC
Plugs & Heads: Top Plug 8 5/8" Type RUBBER; Bottom Plug _____ Type _____ Type Head _____
Pressure: Circulating _____ Minimum _____ Maximum _____

Displacement Data: Displaced with _____ cu. ft. 8.5 Barrels Plug back at _____
Remarks: Pump 10 BBL H₂O ahead of Cement. Displace with 8.5 BBL H₂O. Pump plug with 1500 PSI. Blank did hold.

Thankyou

CHECK SHEET

Date February 18, 1982

Company *Western Reserve, Inc.* Oxy Petroleum Inc. Box 40 Mills, Wyoming 82644

Well Name Field No. 1-34

County Pondera Field Wildcat

Location 1700 FSL 1300 FWL SE NW SW Sec. 34 Twp. 29N Rge. 6W

Permit No. N-9655

Receipt No _____

Drilling Fee 75.00

Intention to Drill 2-18-82

API No. 013-21609

Permit Expiration Date ~~2-18-82~~ 5-19-82

Permit Extended 90 days From _____ To _____

\$ 5,000 one well bond _____

\$10,000 blanket bond X

\$20,000 blanket bond _____

Government well _____

Sundry Notices *Chg of Operator 7-7-87*

" " *Intent to Abandon 1-24-89*

" " _____

" " _____

Log of Well 3-8-82 / 3-28-82 / 3485 / 23

Subsequent Report of Abandonment ¹²⁻²⁹⁻⁸⁹ 6-1-90 Bo7D

Electric Log _____

Radioactive Log _____



Form No. Rule 204.3 and 210

LOCATE WELL CORRECTLY

(SUBMIT IN TRIPLICATE) TO BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA BILLINGS OR SHELBY

COMPLETION REPORT

Company OXY PETROLEUM, INC. Lease C. FIELD Well No. 1-34

Address 5000 Stockdale Hwy., Bakersfield CA. Field (or Area) Wildcat

The well is located 1,700' ft. from (S) line and 1,300' ft. from (W) line of Sec. 34 4049' K.B.

Sec. 34; T. 29 N; R. 6 W; County PONDERA; Elevation 4037' G.L. (D.F., R.B. or G.L.)

Commenced drilling 3 - 8, 1982; Completed 3 - 28, 1982

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL (oil well, gas well, dry hole)

Signed T.D. Blacklock T.D. BLACKLOCK

Title Division Operations Superintendent

Date JUNE 28, 1982

IMPORTANT ZONES OF POROSITY (denote oil by O, gas by G, water by W; state formation if known)

From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sacks of Cement	Cut and Pulled from
16"	--	Conductor		40'	40'	surface	cmt'd to	surface
8 5/8"	24 #	K-55	ST&C	175'	175'	surface	100	--
5 1/2"	17 #	J-55	LT&C	3480'	3480'	surface	200	2120'

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2 7/8"	6.5	J - 55	8 rd		

COMPLETION RECORD

Rotary tools were used from Surface to 3485'
Cable tools were used from _____ to _____
Total depth 3485 ft.; Plugged back to 3480 T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3430'	3424'	2 1/2" J.H.P.F.	3430'	3424'	1000 gals of 15% HCL	

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Madison - Sun River (pool) formation.
I. P. 23 barrels of oil per Day 3300 Pumping (pumping or flowing)
47 Mcf of gas per _____ hours.
47 barrels of water per day hours, or _____ % W.C. (OVER)

ELECTRICAL LOG FORMATION TOPS

CRETACEOUS

	<u>DEPTH</u>	<u>DATUM</u>
Base Two Medicine	743'	(+3,302')
Colorado	823'	(+3,222')
Blackleaf	1,767'	(+2,278')
Dakota	2,530'	(+1,515')
Sunburst	3,042'	(+1,003')

JURASSIC

Morrison	3,102'	(+943')
Swift	3,177'	(+868')
Rierdon	3,307'	(+738')
Sawtooth	3,403'	(+642')

MISSISSIPPIAN

Madison (Sun River)	3,423'	(+622')
---------------------	--------	---------

DRILLER'S TD	3,485'	(+560')
--------------	--------	---------

LOGGER'S TD (Schlumberger)	3,482'	(+563')
----------------------------	--------	---------

073-21609

(SUBMIT IN QUADRUPPLICATE)

TO

- MAC 36-3.18(10)-S18020
- MAC 36-3.18(10)-S18030
- MAC 36-3.18(10)-S18140
- MAC 36-3.18(10)-S18170
- MAC 36-3.18(10)-S18200
- MAC 36-3.18(10)-S18310
- MAC 36-3.18(10)-S18330
- MAC 36-3.18(14)-S18380

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.



**BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA**

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill	XXX	Subsequent Report of	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	AMOUNT RECEIVED <u>75.00</u>
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	CHECK NO. <u>819</u>
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	DRILLING PERMIT NO. <u>N-9655</u>
Notice of Intention to Pull or Alter Casing		Supplementary Well History	EXPIR. DATE <u>5-19-82</u>
Notice of Intention to Abandon Well		Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

February 10, 1982

Following is a notice of intention to do work on land owned described as follows:

LEASE Field WILDCAT
 Pondera (County)
 MONTANA (State)

Well No. 1-34 SE N W SW 34 29N 6W MPM
 (m. sec.) (Township) (Range) (Meridian)

The well is located 1700 ft. from S line and 1300 ft. from W line of Sec. 34

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or XB. above the sea level is 4031

READ CAREFULLY
CORES AND CUTTINGS TO BE DELIVERED TO BOARD OF OIL & GAS CONSERVATION, 2635 ST. JOHNS AVE., BILLINGS MONTANA IN ACCORDANCE WITH MAC 36-3.18(10)-S18300

FILING WITH THE COMMISSION ALL LOGS, REPORTS, SURVEYS AND ANALYSES MADE OR RUN IS REQUIRED IN ACCORDANCE WITH RULE NO. 230.

DETAILS OF WORK RESULT

This well will be a test of the Madison zone for oil. Estimated total depth is 3600'. Surface pipe will be set at 500' with 250sx. Pipe will be 9 5/8"/40" ex. Production pipe will be 5 1/2"/17# set at total depth with 250 sx. Production zones will be treated with acid. Estimated tops include Dakota 2492'; Morrison 3077'; Swift 3127'; and Madison 3405'.

Approved for Gas only

Approved subject to conditions on reverse of form

Date FEB 18 1982
 By Floyd W. Podall, field supervisor
 District Office Agent Title

Maurice L. Hatcher
 Company Oxy Petroleum Inc
 By Hatcher Petro-Land Inc
 Title Box 40, Mills, Wyoming 82644
 Address Agent

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL
<u>25</u>	<u>0173</u>	<u>21/16/09</u>

NOTE:—Reports on this form to be submitted to the appropriate District for approval
 WHEN USED AS PERMIT TO DRILL, PERMIT EXPIRES 90 DAYS FROM DATE OF APPROVAL IF WELL NOT SPUDED OR EXTENSION REQUESTED.

OVER

**Locate well by footage measurement from legal subdivision (Section) line
and nearest drilling or producible well, if any.**

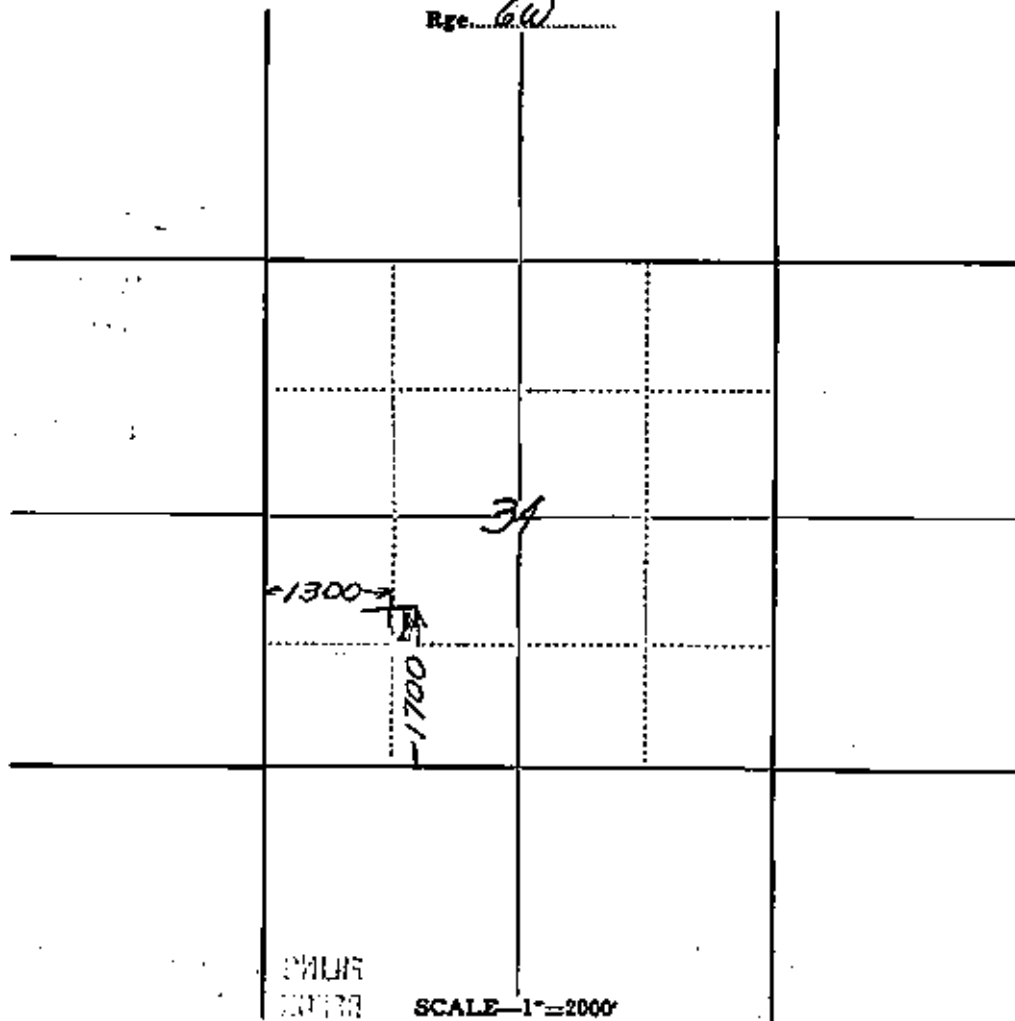
Form No. 2
File at
Billings
or Shelby

Form No. 2
File at
Billings
or Shelby

Rge. 6W

Locate
Well
Correctly

Twp. 29N



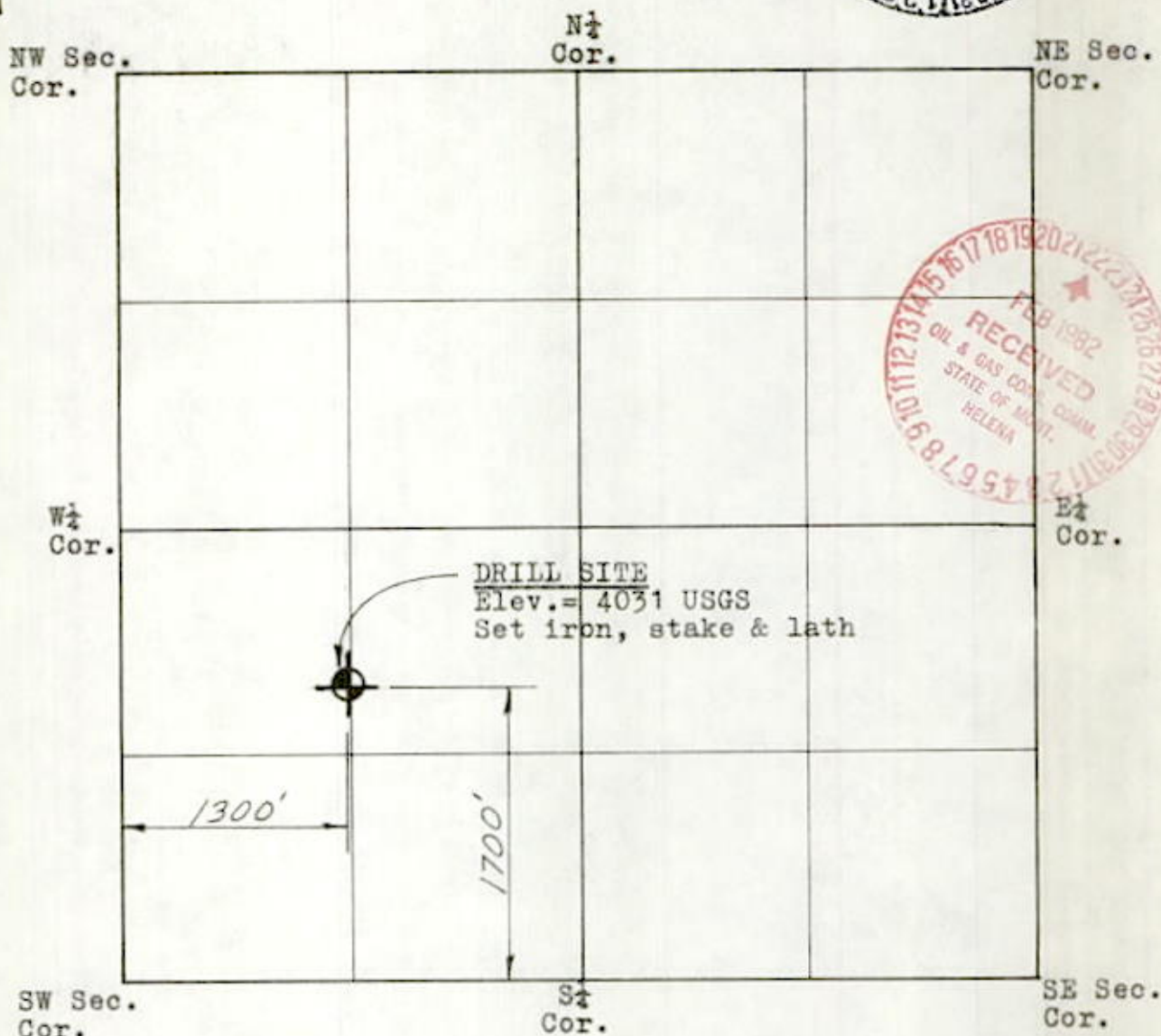
THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana.
3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 3 for approval by the Board prior to commencement of work.
8. A satisfactory drilling record must be kept for each tour, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 230 and one copy of all cementing records as furnished by the cementing company and described in Rule 234.
11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

DRILLING SITE SURVEY

SECTION 34

T29N, R6W, P.M.M.,
PONDERA COUNTY, MONTANA



SURVEY FOR: Oxy Petroleum Company
c/o Mr. Dennis Lopez
410 17th Street, Suite 850
Denver, Colorado 80202

PURPOSE OF SURVEY: To locate a drill site in the NW 1/4 of the SW 1/4, Sec. 34, T29N, R6W, PMM, Pondera County, Montana.

WELL NO.: Field 1-34

SURVEYORS CERTIFICATE

I, Robert E. Findorff of Choteau, Montana do hereby certify that this is a correct and true survey as hereon delineated and is located in the NW 1/4 of the SW 1/4, Sec. 34 T29N, R6W, PMM, Pondera County, Montana.

Feb. 19, 1992
Dated *Robert E. Findorff*
Robert E. Findorff
Registration No. 3976ES
Box 490
Choteau, Montana 59422

HATCHER PETRO-LAND, INC.

"Let Marv Handle Your Permit Requirements"

P.O. Box 38 • Mills, Wyoming 82644

Marvin L. Hatcher, Boss
Bus. Phone 307 - 237-8201
Home Phone 307 - 234-6718

Oxy Petroleum Inc. #1-34
SE NE SW 34-29N-6W, Pondera County, Montana

Estimated Geological Tops

Cretaceous	
Colorado Shale	818'
Blackleaf	1808'
Bow Island	2238'
Dakota	2492'
Kootenai	2542'
Sunburst	3032'
Jurassic	
Morrison	3077'
Swift	3127'
Rierdon	3290'
Sawtooth	3393'
Mississippian	
Madison	3405'
Proposed Total Depth	3600'



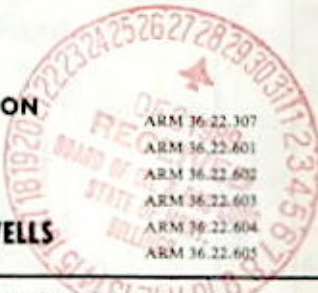
(SUBMIT IN QUADRUPLICATE)

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.



TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY
SUNDRY NOTICES AND REPORT OF WELLS



ARM 36.22.307
ARM 36.22.601
ARM 36.22.602
ARM 36.22.603
ARM 36.22.604
ARM 36.22.605

ARM 36.22.1003
ARM 36.22.1004
ARM 36.22.1013
ARM 36.22.1301
ARM 36.22.1306
ARM 36.22.1309

Notice of Intention to Drill*	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment	X
Notice of Intention to Pull or Alter Casing	Supplementary Well History	
Notice of Intention to Abandon Well	Report of Fracturing	

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

12/28, 1989

Following is a notice of intention to do work on land owned leased described as follows:

LEASE FIELD

MONTANA (State)

PONARRA (County)

EAST CROCKER SPRINGS (Field)

Well No. 1-34 FIELD 34 (m. sec.) 29N (Township) 6W (Range) (Meridian)

The well is located 1700 ft. from N S line and 1300 ft. from E W line of Sec. 34

* For notice of intention to drill, write the API* or the well name of another well on this lease if one exists.

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4031

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing.)

DETAILS OF WORK
RESULT

WELL WAS PLUGGED WITH 20 SX PLACED AT BOTTOM OF CASING AND 10 SX AT SURFACE. WELL SERVICING BY JR BACON AND CEMENT PROVIDED AND PUMPED BY HALLIBURTON

(LOCATION INSPECTED & APPROVED, 5-31-90 G.L.)

Approved subject to conditions on reverse of form

Date

JUN 01 1990

By Steve P. Sinski District Office Agent

Title

Company ARCHEAN MINING FOR WESTERN RESERVES
By GLEN M. LANARY

Title PRESIDENT OF ARCHEAN

Address P.O. Box 3502, BILLINGS, MT 59103

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL
MT	0713	2116109

NOTE:—Reports on this form to be submitted to the appropriate District for approval.
DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

**Locate well by footage measurement from legal subdivision (Section) line
and nearest drilling or producible well, if any.**

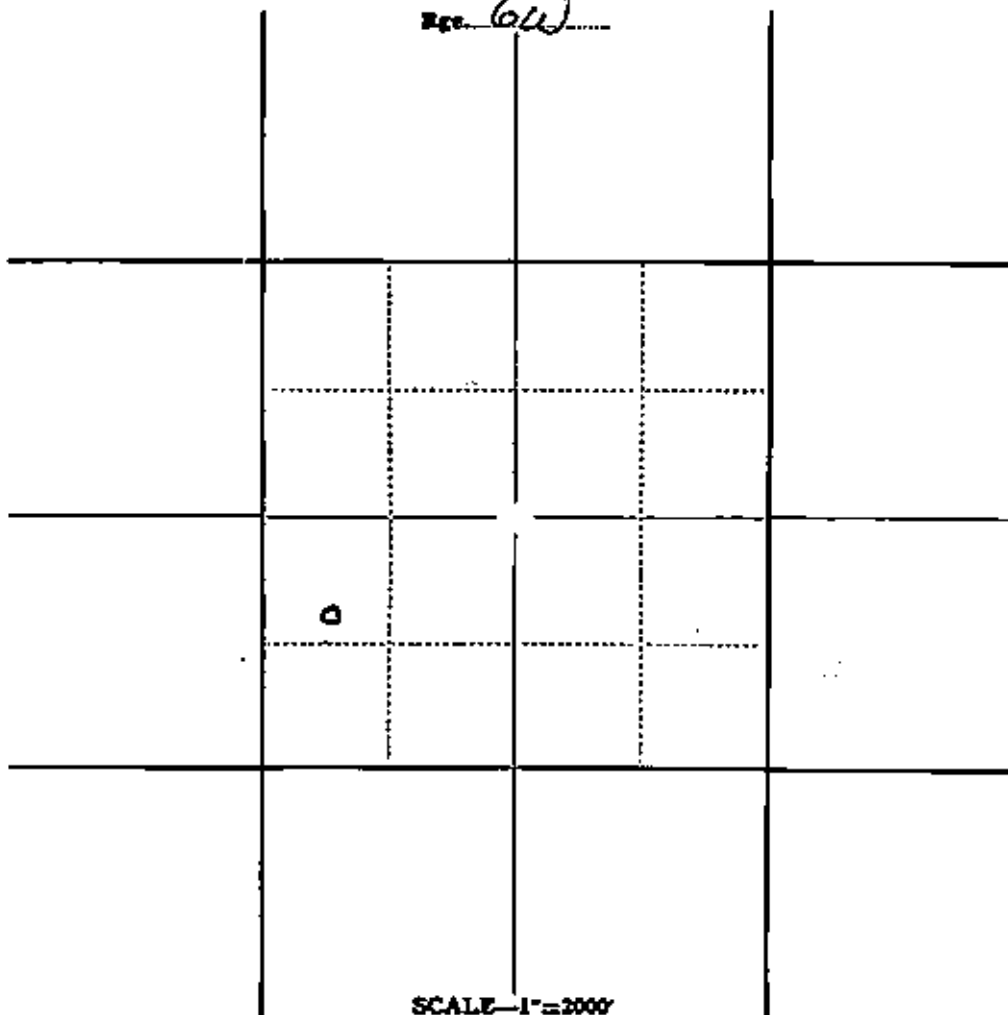
Form No. 2
File at
Billings
or Shelby

Form No. 2
File at
Billings
or Shelby

Egs. 6W

Locate
Well
Correctly

Twp. 29N



SCALE-1"=2000'

THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana. Date of spudding must be reported to the Board verbally or in writing within 72 hours of commencing drilling.
3. Cable tool operators must construct an adequate sump to contain all mud and water bailed from the hole.
4. Surface or conductor casing must be properly cemented by an approved method and pressure tested to determine a tight bond with the surrounding formations in case an unexpected flow of oil, gas or water should be encountered, unless special permission has been granted for formation shut-off.
5. Any production casing must be cemented unless a formation shut-off or packer is approved by the Board. Sufficient cement must be used to protect the casing and all possible productive and fresh water bearing formations exposed in the process of drilling and not otherwise protected.
6. All production casing must be tested by bailing or pressure to determine if there is a tight bond with the surrounding formations or possible leaks in the casing. The results of the test must be reported on Form No. 2, said report to include the size, weight, thread and length of casing, amount of cement used, and date work is done. If test shows failure, the defect must be corrected before any drilling operations are resumed.
7. Any contemplated change in status of a well such as to plug and abandon, deepen, plug back, redrill, alter casing, etc. must be presented on Form No. 2 for approval by the Board prior to commencement of work.
8. A satisfactory drilling record must be kept for each well, showing top and thickness of each and all formations drilled and all other information of value, one copy of which is to be kept at the rig while drilling is in progress for examination by any authorized agent of the Board.
9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 36.22.1013 and one copy of all cementing records as furnished by the cementing company and described in Rule 36.22.1241.
11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

(SUBMIT IN QUADRUPPLICATE)

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

TO

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

NOTICE
THIS FORM BECOMES A PERMIT WHEN STAMPED APPROVED BY AN AGENT OF THE BOARD.



Notice of Intention to Drill*		Subsequent Report of Water Shut-off
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing		Supplementary Well History
Notice of Intention to Abandon Well	X	Report of Fracturing

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

JANUARY 9, 1989

Following is a notice of intention to do work on land ~~owned~~ leased described as follows:

LEASE FIELD

MONTANA (State)

SENUSU

PONDREA (County)

E. CROCKER (Field)

Well No. 1-34 FIELD 34 (m. sec.) 29N (Township) 6W (Range) (Meridian)

The well is located 1700 ft. from S line and 1300 ft. from W line of Sec. 34

* For notice of intention to drill, write the API* or the well name of another well on this lease if one exists.

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4037 GL

READ CAREFULLY

DETAILS OF PLAN OF WORK

READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing)

DETAILS OF WORK

RESULT

INTRUD ON TAGGING BOTTOM @ APPROXIMATELY 3455' AND PLACE A 20 SACK PLUG OF REGULAR CEMENT ACROSS PERFORATIONS AT 3424 TO 3430. WILL PLACE ADDITIONAL 5 SACK PLUG AT SURFACE AND CUT CASING OFF BELOW PLOW DEPTH

VERBAL APPROVAL: 1/11/89 BY FLOYD ROLL

Approved subject to conditions on reverse of form

Company WESTERN RESERVES

Date JAN 21 1989

By GLEN M. LAUDRY

By Steven P. Shank, District Office Agent, Title Field Supervisor

Title (Signature)

Address P.O. Box 397

Somos, MT 59932

BOARD USE ONLY API WELL NUMBER



NOTE—Reports on this form to be submitted to the appropriate District for approval. DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

A-104

1
**Locate well by footage measurement from legal subdivision (Section) line
 and nearest drilling or producible well, if any.**

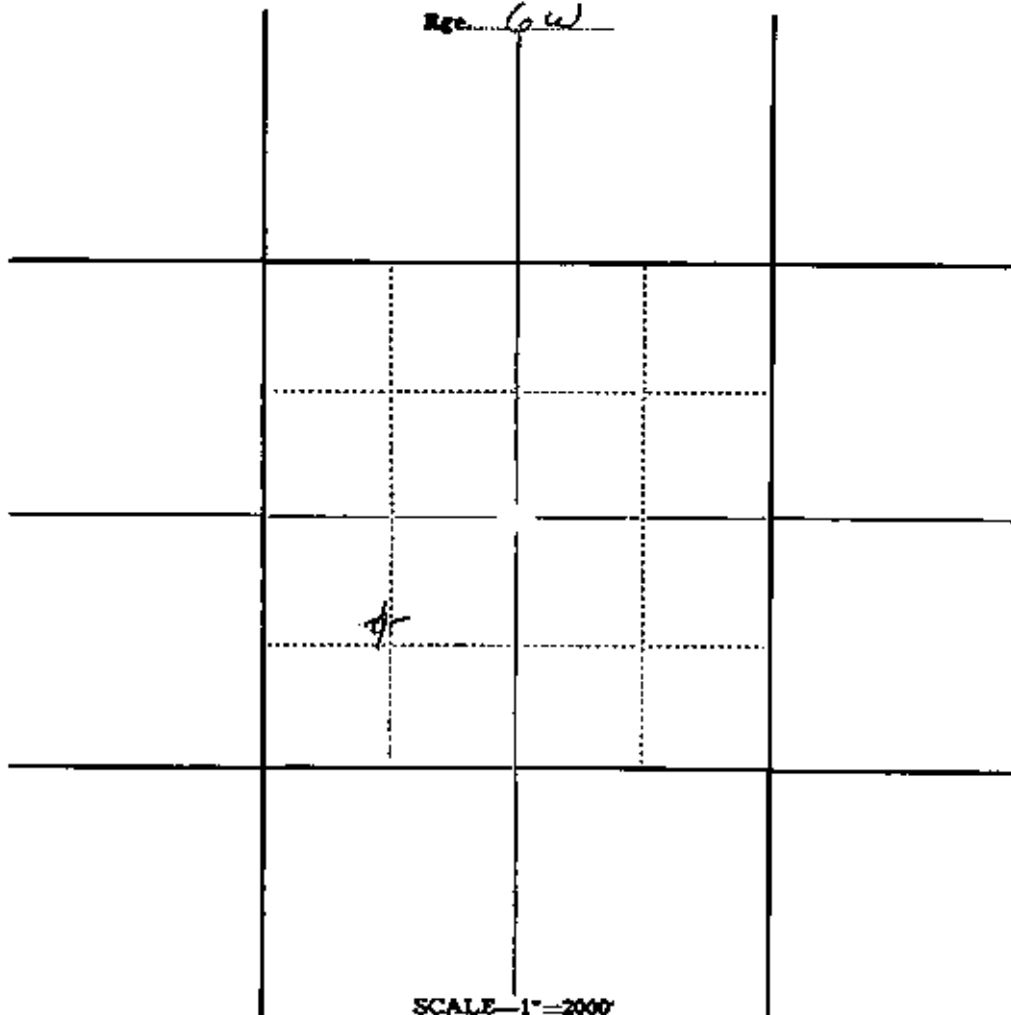
Form No. 1
File at
Billings
or Shelby

Form No. 2
File at
Billings
or Shelby

Age *6 W*

Locate
Well
Correctly

Twp. *29 N*



THE NOTICE OF INTENTION TO DRILL THIS WELL IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

1. Any person, before commencing the drilling of any oil or gas well or water source or injection well shall secure from the Board a drilling permit and shall pay to the Board the following amounts: for each well whose estimated depth is thirty-five hundred (3,500) feet or less, twenty-five dollars (\$25.00); from thirty-five hundred and one (3,501) feet to seven thousand (7,000) feet, seventy-five dollars (\$75.00); seven thousand and one (7,001) feet and deeper, one hundred fifty dollars (\$150.00).
2. No well is to be spudded in unless the proper surety drilling bond has been posted and approved by the Board of Oil and Gas Conservation of the State of Montana. Date of spudding must be reported to the Board verbally or in writing within 72 hours of commencing drilling.
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9. All producing wells must be marked with name of the operator, number of the well and location, using reasonable precautions to preserve these markings at all times.
10. Delivery to the Board of two copies of all surveys, reports, analyses, logs, tests, samples and core descriptions, etc., as described in Rule 36.22.1013 and one copy of all cementing records as furnished by the cementing company and described in Rule 36.22.1241.
11. All work must be done in conformity with the regulations of the Board of Oil and Gas Conservation of the State of Montana, as contained in "General Rules and Regulations," and amendments thereto, as well as regulations prescribed in lieu thereof.

Blaze

(SUBMIT IN QUADRUPPLICATE)
TO

NOTICE
THIS FORM BECOMES A
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

RECEIVED
OIL & GAS CONSERVATION
STATE OF MONT.
BILLINGS

RECEIVED
JUN 1987
BOARD OF OIL & GAS CONSERVATION
STATE OF MONT.
BILLINGS

ARM 36.22.1003
ARM 36.22.1004
ARM 36.22.1013
ARM 36.22.1301
ARM 36.22.1306
ARM 36.22.1309

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHEI.BY

SUNDRY NOTICES AND REPORT OF WELLS

Notice of Intention to Drill *		Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Shooting, Acidizing, Cementing	
Notice of Intention to Test Water Shut-off		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair Well		Subsequent Report of Redrilling or Repair	
Notice of Intention to Shoot, Acidize, or Cement		Subsequent Report of Abandonment	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well		Report of Fracturing	
change of operator	X		

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

May 12, 1987

19

Following is a notice of intention to do work { on land } owned { described as follows:
report of work done { leased

LEASE TYPE private LEASE Fields
(Private, State, Federal, Indian)
MONTANA Pondera East Crocker Springs
(State) (County) (Field)

Well No. 1-34 Field 34 29N 6W
(m. sec.) (Township) (Range) (Meridian)

The well is located 1700 ft. from N line and 1300 ft. from W line of Sec. 34

* For notice of intention to drill, write the API* or the well name of another well on this lease if one exists

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4031 ground

READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFULLY

(State names of and expected depths to objective sands; show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing)

DETAILS OF WORK
RESULT

A change of operator is hereby submitted. The new operator is Western Reserves, Inc.

Western Reserves hereby accepts this change:

Charles J. Shelton

Approved subject to conditions on reverse of form

Date JUL 07 1987
By Dee Nickman, Executive Secretary
District Office Agent Title

Company CITIES SERVICE OIL AND GAS CORPORATION
By Charles J. Shelton
Title Attorney-in-Fact
Address P. O. Box 300, Tulsa, OK 74102

BOARD USE ONLY
API WELL NUMBER
STATE COUNTY WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval.
DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

ARM 36.22.307	ARM 36.22.1003
ARM 36.22.601	ARM 36.22.1004
ARM 36.22.602	ARM 36.22.1013
ARM 36.22.603	ARM 36.22.1301
ARM 36.22.604	ARM 36.22.1306
ARM 36.22.605	ARM 36.22.1309

TO

NOTICE
THIS FORM BECOMES
PERMIT WHEN STAMPED
APPROVED BY AN AGENT
OF THE BOARD.

RECEIVED
JUL 1984
OIL & GAS CONS. COMM.
STATE OF MONTANA
BILLINGS

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

SUNDRY NOTICES AND REPORT OF WELLS

RECEIVED
1984

OF OIL
& GAS
CONS
NT - HELENA

Notice of Intention to Drill *	Subsequent Report of Water Shut-off
Notice of Intention to Change Plans	Subsequent Report of Shooting, Acidizing, Cementing
Notice of Intention to Test Water Shut-off	Subsequent Report of Altering Casing
Notice of Intention to Redrill or Repair Well	Subsequent Report of Redrilling or Repair
Notice of Intention to Shoot, Acidize, or Cement	Subsequent Report of Abandonment
Notice of Intention to Pull or Alter Casing	Supplementary Well History
Notice of Intention to Abandon Well	Report of Fracturing
	Change of Operator

(Indicate Above by Check Mark Nature of Report, Notice, or Other Data)

July 12, 1984

Following is a notice of intention to do work on land owned described as follows:
report of work done leased

LEASE Carl Field
Carl Field

MONTANA
(State)

Pondera
(County)

(Field)

Well No. 1-34 (m. sec.) 34 29N (Township) 6W (Range) (Meridian)

The well is located 1700 ft. from $\frac{X}{S}$ line and 1300 ft from $\frac{X}{W}$ line of Sec. 34

* For notice of intention to drill, write the API* or the well name of another well on this lease if one exists.

LOCATE WELL SITE ACCURATELY ON PLAT ON BACK OF THIS FORM.

The elevation of the ground or K.B. above the sea level is 4049' KB

READ CAREFULLY DETAILS OF PLAN OF WORK READ CAREFULLY

(State names of and expected depths to objective sands, show size, weights, and lengths of proposed casings, cementing points, and all other important proposed work, particularly all details of Shooting, Acidizing, Fracturing)

DETAILS OF WORK
RESULT

Although Occidental Petroleum is still the lessee of record, Cities Service Oil & Gas Corporation now operates the above mentioned well.

Posted on bond
Carls 7-17-84

Transferred from Occy Petroleum, Inc. bond to Cities Service Oil and Gas Corp. bond.

Approved subject to conditions on reverse of form

Company Cities Service Oil & Gas Corporation

Date 7/12/84

By Timothy L. Cook

By Rickman, District Office Agent Title

Title Engineer

Address 1600 Broadway, Suite 900

Denver, Colorado 80202

BOARD USE ONLY
API WELL NUMBER

STATE	COUNTY	WELL

NOTE:—Reports on this form to be submitted to the appropriate District for approval
DRILLING PERMIT EXPIRES SIX MONTHS FROM DATE OF APPROVAL.

Check
permit
date

5
R

073-21561

OPERATIONAL SUMMARY AND
GEOLOGICAL WELL HISTORY



OXY PETROLEUM, INC.

#1-34 CHARLES W. FIELD

SECTION 34, T29N-R6W

PONDERA COUNTY, MONTANA

by S. S. WARNER, GEOLOGIST,

OXY PETROLEUM, INC.

R E S U M E :

SPUD DATE: March 9, 1982 @ 1:30 a.m.

RIG RELEASED: March 28, 1982 @ 10:00 a.m.

STATUS: Shut in - Waiting on completion.

ELEVATION: G.L. - 4,033'
D.F. - 4,044'
K.B. - 4,045'

TOTAL DEPTH: 3,485' (Driller's)
3,482' (Logger's)

CONTRACTOR: General Well Service, Inc. Rig #21

TYPE RIG: Cooper LTO Double Drum, 104' derrick,
powered by GMC 8V-71N derrick engine

MUD PUMP: Continental Emsco Type D-375, strock
length - 14"

MUD PROGRAM: Surface hole, 0-180', gel-lime slurry

Air drilling, 180-415', watered out at
415'

Drilled w/mud, 415'-TD, a nondispersed
ligno-sulfonate mud system

HOLE SIZE: 0-180' - 12-1/4"
180'-TD - 7-7/8"

SIZE DRILL PIPE: 3-1/2", 13.30 lbs./ft., Grade E, IF Thread

SIZE DRILL COLLARS: 5-1/2" OD; 4" ID

NO. DRILL COLLARS: 18 (517.41')

SAMPLE INTERVALS: 30', 15' and 10' samples from 180' to TD

SAMPLE QUALITY: Fair to excellent

CORES: (1) 3,430-35' - no recovery

DRILLSTEM TESTS: #1, 3,422-33', Madison (Sun River)
#2, 3,420-35', Madison (Sun River)

MUD AND AIR DRILING SUMMARY

SURFACE HOLE:	Gel-lime slurry	
MATERIALS USED:	Hydrogel	26 sx
	Lime	4 sx
	Caustic sodn	1 sack
BELOW SURFACE:	Air drilling to 415'	
	415'-TD - Nondispersed ligno-sulfonate mud system	
MATERIALS USED:	Hydrogel	365 sx
	Driscose (Low)	26 sx
	Raychrome (CLS)	49 sx
	Causticized lignite	5 sx
	Soda ash	4 sx
	Caustic soda	18 sx
	Defoamer	5 gals
	Mica (Fine)	27 sx
	Ironite sponge	10 sx
	Ammonium nitrate	13 sx

MATERIAL DESCRIPTION

HYDROGEL:	High yield Wyoming bentonite (100# bag) - Used as viscosity builder.
LIME:	Calcium hydroxide (50# bag) - Used as viscosity builder.
CAUSTIC SODA:	Sodium hydroxide (50# bag) - Used to control pH.
DRISCOSE:	Sodium carboxymethyl cellulose (50# bag) - Used to help control water loss.
RAYCHROME (CLS):	Chrome lignosulfonate (50# bag) - Used to help control water loss and as deflocculent.
CAUSTICIZED LIGNITE:	Lignite thinner - causticized (50# bag) - Used to help control water loss and as deflocculent.
SODA ASH:	Sodium carbonate (100# bag).
MICA:	Mica flakes (50# bag) - Used as a hole lubricant.
IRONITE SPONGE:	Iron oxide H ₂ S scavenger (50# bag) - Used as an H ₂ S scavenger.
AMMONIUM NITRATE:	Ammonium nitrate (50# bag) - Used as a formation water tracer.

BIT RECORD

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Feet</u>	<u>Hours</u>	<u>Wt. on Bit</u>	<u>RPM's</u>	<u>Pump Pres.</u>
1A	12-1/4	STC	DJ	180'	11.00	15,000	120	100
1	7-7/8	Hughes	OSC-3	235'	7.25	20,000	60	500
2	7-7/8	Reed	FP-12	1,145'	30.50	20,000	120	800
3	7-7/8	Reed	4-12	220'	6.25	20,000	120	800
4	7-7/8	STC	DTJ	148'	7.00	15,000	120	800
5	7-7/8	Hughes	J-22	1,081'	100.50	20,000	50/80	1,000
6	7-7/8	Hughes	J-22	424'	52.25	20,000/ 25,000	60/80	1,000
7	7-7/8	Chris	MC-23	5'	.50	3,000/ 8,000	50/55	210

LOGGING PROGRAM - SCHLUMBERGER

128-3,476'	Dual Induction - SFL
102-3,480'	Compensated Neutron Density - Gamma Ray
50-3,470'	Bore Hole Compensated Sonic - Gamma Ray

A Schlumberger Cyberlook Computer Processed Log was made over the interval 1,750-3,480'.

VERTICAL HOLE DEVIATION SURVEYS

<u>DEPTH</u>	<u>DEGREES</u>
560'	0
1,560'	1
1,780'	4-1/4
1,923'	4-1/4
2,811'	4
3,009'	4
3,254'	3-3/4
3,433'	3-3/4

For detailed deviation, see enclosed report by AMF Scientific Drilling (a magnetic directional survey).

SAMPLE DISTRIBUTION

Washed, wet samples were caught and shipped to American Stratigraphic Company's sample library in Denver, CO. These are to be cut and shipped to the following:

- 1) MT Oil & Gas Conservation Comm.
2535 St. Johns Avenue
Billings, MT 59101

- 2) OXY Petroleum, Inc.
Attention Mr. S. S. Warner
One Denver Place, Tower II
999-18th Street, Suite 1501
Denver, CO 80202

- 3) Hunt Energy Corporation
Attention Ms. Linda Ehlers
2500 First National Bank Bldg.
Dallas, TX 75202

- 4) Sun Exploration Company
Attention Mr. Chris Clear
Trinity Place
1801 Broadway, Suite 1000
Denver, CO 80202

ELECTRICAL LOG FORMATION TOPS

CRETACEOUS

	<u>DEPTH</u>	<u>DATUM</u>
Base Two Medicine	743'	(+3,302')
Colorado	823'	(+3,222')
Blackleaf	1,767'	(+2,278')
Dakota	2,530'	(+1,515')
Sunburst	3,042'	(+1,003')

JURASSIC

Morrison	3,102'	(+943')
Swift	3,177'	(+868')
Rierdon	3,307'	(+738')
Sawtooth	3,403'	(+642')

MISSISSIPPIAN

Madison (Sun River)	3,423'	(+622')
---------------------	--------	---------

DRILLER'S TD 3,485' (+560')

LOGGER'S TD (Schlumberger) 3,482' (+563')

DRILLSTEM TESTS

DST#1:

3,422-33' in Madison (Sun River Dolomite). GTS during initial shut-in, final flow period. Gas flowed @ rate of 9-5 MCFD, decreasing at end.

Preflow:	15 min.
Initial shut-in:	33 min.
Final flow:	60 min.
Final shut-in	95 min.

<u>PRESSURES:</u>	First Period	3,402' Top	3,429' Bottom	
		IHP	1635.3	1648.2
		IFP	107.2	723.6
		FFP	111.5	455.4
		SIP	1061.8	1075.0
	Second Period	IFP	151.9	440.5
		FFP	297.6	730.7
		FSI	1063.6	1075.9
		FHP	1606.1	1617.6

RECOVERY:

Total fluid - 950' - 60' of ammonia cut oil and 890' of gas cut oil.

DST #2:

3,422-33' in Madison (Sun River Dolomite). GTS in 6 min. Flowed @ rate of 21-34 MCFD. Oil to surface during final flow period. Pipe partially unloaded during surge in final flow.

Preflow:	60 min.
Initial shut-in:	60 min.
Final flow:	132 min.
Final shut-in:	45 min.

<u>PRESSURES:</u>	First Period	3,402' Top	3,429' Bottom	
		IHP	1673.7	1694.6
		IFP	75.0	101.2
		FFP	270.1	276.2
		SIP	1061.8	1078.2
	Second Period	IFP	318.6	343.9
		FFP	241.1	262.4
		FSI	1061.0	1074.7
		FHP	1673.7	1694.6

RECOVERY:

Total fluid - 1,010' - 890' of highly gas cut oil and 120' of gas cut water.

CORE DATA

One core was cut in Mississippian Madison (Sun River dolomite) from 3,430-35'. There was no recovery. Penetration rate for the core was 1 to 5 minutes/ft.

DAILY ACTIVITY SUMMARY

(Calendar Days)

- 3/8/82 Moved in and rigged up General Well Service Rig #21. Drilled rat hole.
- 3/9/82 Spudded at 1:30 a.m. Drilled 12-1/4" surface hole to 180'. Set 8-5/8" surface casing with 175 sx. cement plus 3% CaCl at 113'.
- 3/10/82 Nipping up. Tested BOP's to 900#. Held for 15 minutes. Rigged up air equipment.
- 3/11/82 Blew hole dry and drilled with air to 415'. Changed over to mud and water and drilled to 747'.
- 3/12/82 Drilled 747-1,373'. Had tight hole at 778'.
- 3/13/82 Drilled 1,373-1,780'. Tripped for new bit at 1,560'.
- 3/14/82 Drilled 1,780-2,003'. Tripped for new bit at 1,928'.
- 3/15/82 Drilled 2,003-104'.
- 3/16/82 Drilled 2,104-360'.
- 3/17/82 Drilled 2,360-782'.
- 3/18/82 Drilled 2,782-968'.
- 3/19/82 Drilled 2,968-3,065'. Tripped for new bit at 3,009'. Tight hole.
- 3/20/82 Drilled 3,065-254'.
- 3/21/82 Drilled 3,254-419'.
- 3/22/82 Drilled to 3,433'. Conditioned mud. Made short trip to pull out for DST #1.
- 3/23/82 Completed DST #1. Tripped in and conditioned hole for Core #1. Cut core and tripped out.
- 3/24/82 Tripped out with Core #1. Tripped in for DST #2.
- 3/25/82 Ran DST #2. Tripped in. Drilled to 3,482' and conditioned hole.
- 3/26/82 Tripped out to run Schlumberger logs.
- 3/27/82 Set 5-1/2" casing at 3,480'. Tagged plug with 2-7/8" tubing at 3,455'.
- 3/28/82 Rig was released at 10:00 a.m.

L I T H O L O G Y

Sample descriptions begin at 170' in Cretaceous Montana Group beds. Drilling time lag was used to adjust lithology. Formation tops were determined from electrical logs. Samples were examined both wet and dry and described wet. For lithology descriptions, see the enclosed lithologic log.

073-21561

MAX'S TESTING

P. O. BOX 818

CUT BANK, MONTANA 59427



CUSTOMER Occidental Exploration & Production Co.
 WELL NO. #1-34 Field
 WELL LOCATION Sec.34-T29N-R6W
 INTERVAL 3420-3435 T.D. 3435
 COUNTY Pondera

DATE 25-03-82
 TICKET # 863 DST.# Two
 FORMATION Madison
 TYPE OF TEST Bottom Hole
 KB ELV. 4045
 GR ELV. 4035
 Ft NET PAY -
 STATE Montana

Occidental Exploration & Production Co.
 #1-34
 Wildcat
 863
 Two
 3420-3435

RECORDER DATA ALL MEASUREMENTS ARE IMPERIAL TIME DATA [CONVENTIONAL]

	PSI	PSI	PSI	PSI
PF 60 REC.#	10981	10981	10982	10982
SI 60 DEPTH	3402	3402	3431	3431
SF132 CLOCK	21132	21132	21134	21134
FS 45 BLANKED OFF	No	No	Yes	Yes
A. Init. Hyd.	1670.2	1673.7	1692.1	1694.6
B. First Flow	75.9	75.0	102.9	101.2
Bl.Final Flow	273.6	270.1	274.4	276.2
C. In Shut-in	1065.3	1061.8	1081.6	1078.2
D. Init. Flow	321.3	318.6	351.6	343.9
E. Final Flow	247.2	241.1	265.8	262.4
F. Fi Shut-in	1065.3	1061.0	1073.0	1074.7
G. Final Hrd.	1670.2	1673.7	1700.7	1694.6
	Field	Computed	Field	Computed

PF fr.	08:58 to	09:58	HR.
IS fr.	09:58 to	10:58	HR.
SF fr.	10:58 to	13:10	HR.
FS fr.	13:10 to	13:55	HR.
TIME STARTED	12:05		HR.
TIME ON BTM	08:45		HR.
TIME OPEN	08:58		HR.
TIME PULLED	13:55		HR.
TIME OUT	17:30		HR.

MUD DATA

MUD TYPE	Gel
MUD WEIGHT	9.3
VISCOSITY	75
WATER LOSS	5.4
FILTER CAKE	2/32
MUD DROP	-

SAMPLER DATA

SURFACE PRESSURE	245
CUBIC FT. GAS	.6
C. C. OIL	1050
C. C. Mud	300
TOTAL C.C. LIQUID	1350
GRAVITY @ 60'f	33.4
GAS/OIL RATIO	90.7

GENERAL DATA

SURFACE CHOKE	1/4-2-1/4
BTM. CHOKE	.75
HOLE SIZE	Nil
AMT.OF FILL	Nil
BTM.H.TEMP	77
POROSITY I	-
HOLE COND	Good
CUSHION AMT	Nil
CUSHION TYPE	Nil
BACK PRESS. VAL.	Nil
TESTER	DeKaye
WITNESS	Warner
CONTRACTOR	General Well Service
RIG #	#21 co/26

RECOVERY
 TOTAL FLUID 1010 ft of 505 ft in D.C. and 505 ft in D.P.
 890 ft of Highly gas cut with trace of
 - ft of mud Oil after unloading.
 120 ft of Gas cut water
 - ft of -

FLUID	RESISTIVITY	TEMP	Cl. CONTENT
MUD PIT	2.40	52	2900
MUD PIT FILTRATE	1.95	52	3700
RECOVERED WATER	-	-	-
RECOVERED MUD	-	-	-
RECOVERED MUD FILTRATE	-	-	-

REMARKS:
 Opened Tool at 08.58 hrs with strong blow off bottom of 5 gallon bucket of water. Turned to 2 inch line. Gas to surface at 09.04 hrs. Turned to 1/4 inch orifice-1 1/2 lbs (21 MCF) Peaking at 3 lbs (24.0 MCF) then decreasing to 2 1/2 pounds.
 Closed Tool at 09.58 hrs.
 Opened Tool at 10.58 hrs with strong blow-turned to 1/4 inch orifice-(1 1/2 lbs-21 MCF) Peaked at 10 lbs (34.0 MCF) Sursing-Sursed for remainder of flow period. Mud and Oil to surface at 12.25 hrs.
 Closed Tool at 13.10 hrs.
 Pulled off bottom at 13.55 hrs.

TEST SUCCESSFUL

#2

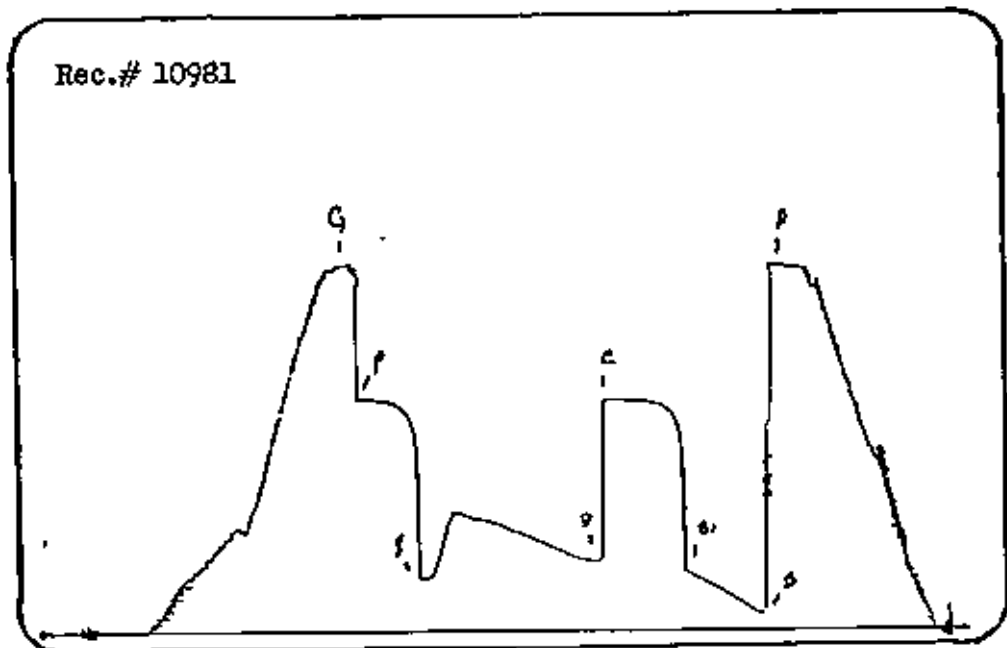
NAME: Field #1-34 DATE: 25-03-82
 LOCATION: Sec.34-T29N-R6W TK#: 863 DST#: Two

TIME	CHOKE SIZE in.	SURFACE PRESSURE lbs.	FLOW RATE MCF/D	LIGUID	REMARKS
09:04 00:00					Gas to surface.
09:14 00:00	1/4	2 1/2	23.0	None	Increasing slightly.
09:24 00:00	1/4	2 1/2	23.0	None	As above.
09:34 00:00	1/4	3	24.0	None	Peaked.
09:44 00:00	1/4	2 1/2	23.0	None	Holding steady.
09:54 00:00	1/4	2 1/2	23.0	None	As above
09:58 00:00					Closed tool
10:58 00:00					Open tool
11:08 00:00	1/4	2 1/2	23.0	None	Starting to surge.
11:18 00:00	1/4	2.0	22.0	None	As above
11:28 00:00	1/4	1	21.0	None	As above
11:38 00:00	1/4	5 1/2	27.0	None	Surging at moderate rate.
11:48 00:00	1/4	6 1/2	29.0	None	As above
11:58 00:00	1/4	7 1/2	30.0	None	Surging between 7 1/2 & 1
12:08 00:00	1/4	1	21.0	None	As above
12:18 00:00	1/4	1/2			
12:25 00:00					Mud & Oil to surface—took out chokes unloading hole—very highly gas cut.
13:10 00:00					Closed tool
13:55					Pulled off bottom.

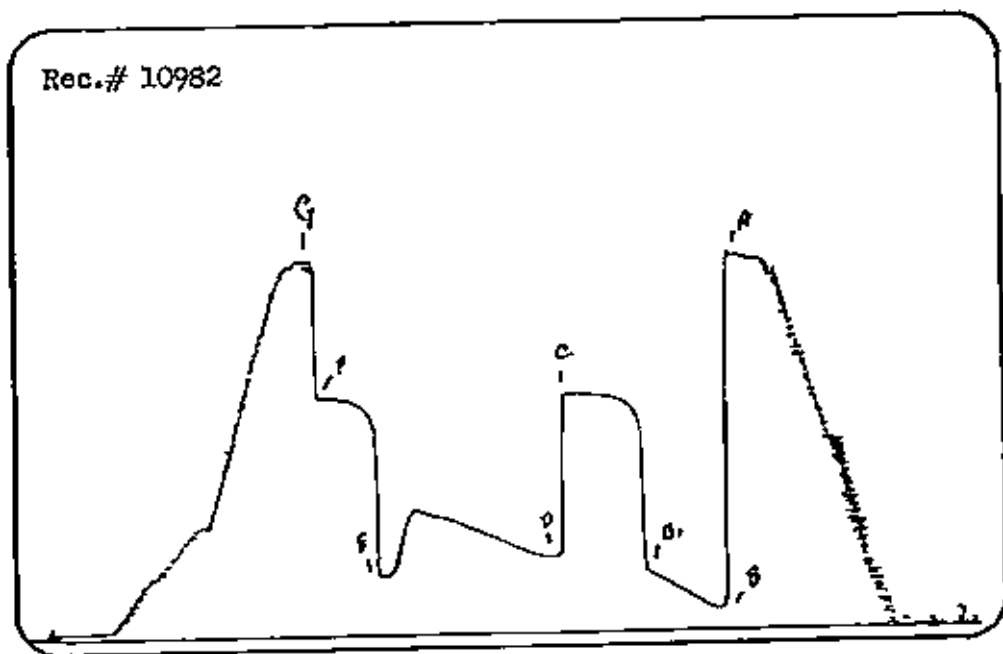
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Field # 1-34 Sec.34-T29N-R6W T.# 863 DST.# 2

Rec.# 10981



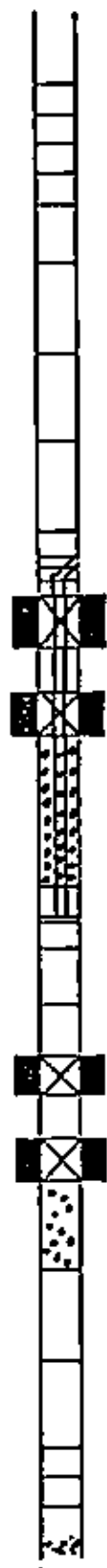
Rec.# 10982



2

NAME: Field #1-34 DATE: 25-03-82
 LOCATION: Sec.34-T29N-R6W TK#: 863 DST#: Two

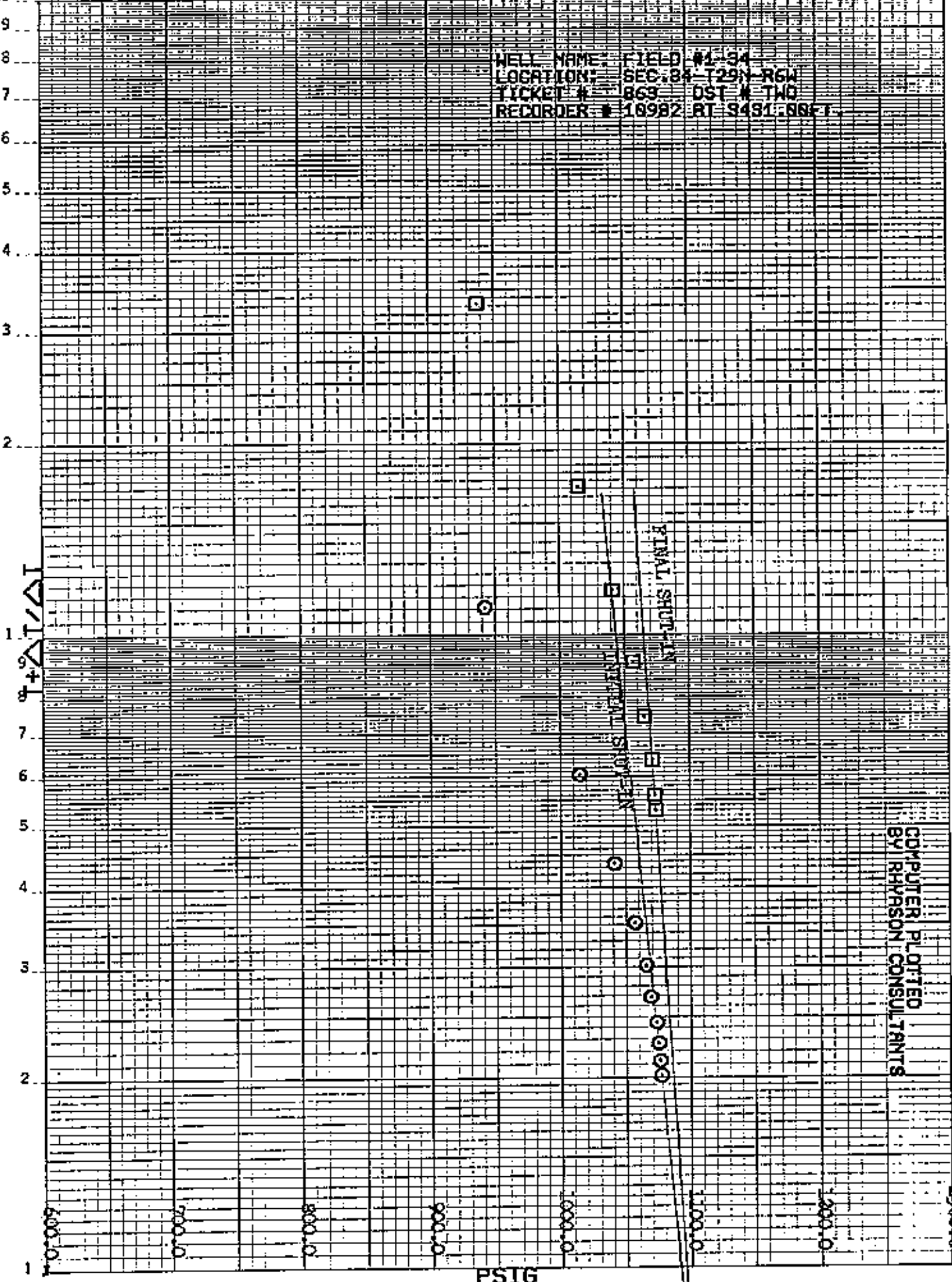
	O.D. INCHES	I.D. INCHES	LENGTH FEET	DEPTH FEET
Drill Pipe	3.50	2.76	2881.00	
Reverse sub	5.75	2.50	1.00	
Water Cushion Valve				
Drill Collars	2.50	2.25	505.00	
Double Pin	6.00	2.25	.90	
Sampler	5.00	.75	81.00	3395.00
Shut-in Tool				
Hydraulic Valve	5.00	.75	5.00	3400.00
BT Case	5.00	2.69	5.00	3402.00
Jars	5.00	1.00	5.00	
Safety Joint	4.75	2.69	1.75	
Equalization Adapter				
PACKER ASSEMBLY XL 1	6.75	1.50	8.56	3420.00
PACKER ASSEMBLY 2				
Equalization Pipe				
Perforated Anchor Adapter	5.00	2.50	10.00	
Blanked off BT Gauge				
PACKER ASSEMBLY 3				
PACKER ASSEMBLY 4				
Perforated Anchor				
Side Wall Anchor				
Drill Collars				
Drill Pipe				
Blanked OFF BT Case	5.00	0.00	4.23	3431.00
T.D.				3435.00



2

HORNER

WELL NAME: FIELD #1-34
 LOCATION: SEC. 84 T29N R6W
 TICKET # 869 DST # TWO
 RECORDER # 18982 RT 9491-8851



COMPUTER PLOTTED
 BY RHYSON CONSULTANTS

PSIG
 #2

WELL NAME & LOCATION : FIELD #1-34 SEC.34-T29N-R6W
 TICKET# 863 DST# TWO
 RECORDER #: 10982 AT 3431.00 FT.

TO = : 60

T = : 192

INITIAL SHUT-IN TIME	$\frac{10+\Delta T}{\Delta T}$	PSIG	KPA	PSIG ² 10 ⁶	*	FINAL SHUT-IN TIME	$\frac{T+\Delta T}{\Delta T}$	PSIG	KPA	PSIG ² 10 ⁶
0	-	276.2	1904	.076	*	0	-	262.4	1809	.069
6	11.00	843.2	6503	.890	*	6	33.00	838.0	6467	.880
12	6.00	1016.3	7007	1.033	*	12	17.00	1016.3	7007	1.033
18	4.33	1043.0	7191	1.088	*	18	11.67	1042.1	7185	1.086
24	3.50	1058.3	7288	1.120	*	24	9.00	1058.3	7288	1.120
30	3.00	1067.0	7356	1.138	*	30	7.40	1066.2	7351	1.137
36	2.67	1070.4	7380	1.146	*	36	6.33	1072.1	7391	1.149
42	2.43	1074.7	7409	1.153	*	42	5.57	1073.9	7404	1.153
48	2.25	1076.5	7422	1.159	*	45	5.27	1074.7	7409	1.153
54	2.11	1077.3	7427	1.161	*					
60	2.00	1078.2	7433	1.163	*					

DATA

	INITIAL SHUT-IN	FINAL SHUT-IN
NO. OF INCREMENTS-----	10	8
NO. OF POINTS EXTRAPOLATED-----	4	3
SLOPE OF EXTRAPOLATED LINE-----	48	31
EXTRAPOLATED PRESSURE-----	1092.00 PSI	1096.00 PSI

RESERVOIR PROPERTIES

INTERVAL-----	15	FEET
RESEVOIR TEMPERATURE-----	77	F
TOTAL FLOW TIME-----	192	MIN.
FINAL FLOW PRESSURE-----	262.40	PSI
GROUND ELEVATION-----	4035	FT.
RECORDER#10982 DEPTH-----	3431	FT.
POROSITY-----	-	%
D.C. RECOVERY-----	505	FT. OF GAS CUT OIL
D.P. RECOVERY-----	365	FT. OF GAS CUT OIL

CALCULATION RESULTS

DAMAGE RATIO = 5.45 ** IMPERIAL

--OIL RECOVERY--

TRANSMISSIBILITY-----	165.42	MD-FT/CP
AVERAGE PERMABILITY-----	11.03	MD
INSITU CAPACITY-----	165.45	MD-FT
RADIUS OF INVESTIGATION-----	46.02	FT.
POTENTIOMETRIC SURFACE-----	1926.66	FT.
PRODUCTIVITY INDEX-----	.06	BBL/DAY-PSI
TEST PRODUCTION OIL-----	48.52	BBL/DAY

EST'D RECOVERY DAMAGE REMOVED-- 264.43 BBL/DAY

COMPUTATIONS BY RHYASON CONSULTANTS
 PH: 265-6788

MONTANA OIL WELL CEMENTERS, INC.

RADIO DISPATCHED UNITS

P.O. Box 226, Cut Bank, Montana 59427
(406) 873-4211 & Havre: (406) 265-4402

PHONES: 873-4211
Cut Bank 873-2628
Havre 265-4402
Mobile 873-4702

12 376

ACIDIZING WORK ORDER & INVOICE

Remit to P.O. Box 226, Cut Bank, Montana 59427

HFE # 282-304-1223

District C.B. Date 4-29-82 P.O. No. _____ Treatment Log. No. 265

Company Oxy. Petroleum Inc.

Mail Invoice To 999 17th 1st Denver Place

Address Denver Colo 80202

Lease & Well No. Field 1-34 Job Started 8:00 P.M. Job Completed 10:00 P.M.

County Denver State MT Field W.C. Section 34 Township 29 Range 6W

Type of Well: Workover Exploratory Development Other: (write in) _____

Treatment No. 1 Zone Madison

Hole Data: Bore Size _____ Total Depth _____ Rotary Cable Tool Air

Casing: New Used Size 5 1/2 Weight 17 Depth 3480 Type _____

Perforations: From 3424 - 3428 to _____

Treated Perfs.: From 3424 3428 to _____

Tubing or Drill Pipe: Size 2 7/8 Weight 6.5 Total Depth 3377

Packer Baker Full Bore Retractable Packer Set at 3377

Previous Treatment None

Reg. Acid—Gals. 1000 gal 15% HCL

Pressure 1500

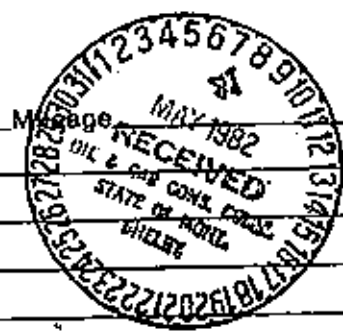
Truck #79 Mileage 40 Transport _____

Treater Ben Driver(s) Fred

Additives Inhibitor 100

Non-Emission

Iron Sequestering



TERMS: Cash at time of sale—Net 30 days to approved credit accounts. After 30 days accounts will be charged 1 1/2% per month service charge on unpaid balance. If necessary to resort to legal action to collect any account such account will be charged with all collection costs—including reasonable attorneys fees.

CONDITIONS, WARRANTY AND RESPONSIBILITY: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor.

It is expressly understood that Montana Oil Well Cementers, Inc. shall not be responsible for damages or losses, direct, indirect, special, consequential, or of any kind whatsoever, occasioned by or incident to the use of Montana Oil Well Cementers, Inc. products and accessory equipment, or part thereof, whether resulting from the negligence of Montana Oil Well Cementers, Inc. or any of its agents, servants or employees.

The entire warranty or guarantee and responsibility, either expressed or implied, by Montana Oil Well Cementers, Inc. is expressed above and no agent, dealer or representative, connected with or employed directly or indirectly by Montana Oil Well Cementers, Inc. has authority to verbally or in written form alter, extend or exceed the warranties or guarantees and responsibilities expressed herein.

I have read, understand and accept the foregoing conditions, warranty or guarantee and responsibility and represent that I am authorized to sign this order as agent of the owner or contractor. I certify that the above material has been used; that the basis for charges are correctly stated; and that I am authorized to sign this memorandum as agent of owner or contractor.

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED
Owner or Contractor Oxy. Petroleum By [Signature]

Phones: 873-4211
873-2628
265-4402
Mobile: 873-4702

MONTANA OIL WELL CEMENTERS, INC.

P. O. Box 226 Cut Bank, Montana 59427

No. 10007

WORK ORDER & INVOICE

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED

District Cut Bank Date 3/27/82 Order No. _____ Req. No. _____
 Company Oxy Petroleum
 Contractor GENERAL WELL SERVICE RIG #21
 Lease and Well No. Field 1-34 Job Started: 1:00 P.M. Job Compl: 4:00 P.M.
 County and State POUDER, MONT. Field W/C Section 34 Township 29 N Range 2 W
 Mail Invoice To Oxy Petro
 Address 123 W 1st St SE 2209 Casper, Wyo

Type of Well: Workover Exploratory Development Other
 Type of Job: Sur. Inter. Prod. Squeeze Pumping P & A
 P. B. Other (Write In) _____
 Casing: New Used Size 5 1/2" Weight 17.10 Depth 3487' Type _____
 Hole Data: Bore Size: 7 7/8" Total Depth 3485' Rotary Cable Tool
 Tubing Or Drill Pipe: Size _____ Type _____ Weight _____ Total Depth _____
 Cementing Packer: Size _____ Type _____ Weight _____ Depth Set _____
 Type Float Equipment: GUIDE SHOE, DIPP FILL COLLAR, 1 LOK RING, 17 CENT.

P & A Data: _____ No. Sacks _____
 Plug No. 1 - From _____ To _____ Plug No. 5 - From _____ To _____
 Plug No. 2 - From _____ To _____ Plug No. 6 - From _____ To _____
 Plug No. 3 - From _____ To _____ Plug No. 7 - From _____ To _____
 Plug No. 4 - From _____ To _____ Plug No. 8 - From _____ To _____
 Others _____
 Cement Data: Bulk Sacked Mixed Wt. Per Gal. _____ Sacks _____ Type _____
 Admix 130sx mont. lite cement 70sx CLASS C 14.5 PPG
 Plugs & Heads: Top Plug 5 1/2" Type POWER; Bottom Plug _____ Type _____ Type Head _____
 Pressure: Circulating _____ Minimum _____ Maximum 200



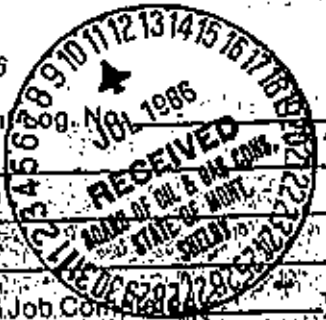
Displacement Data: Displaced with _____ Barrels Plug back at _____
 Remarks: Pump 10 BBS and flush 10 BBS HD ahead of 130 SX MONT. LIGHT CEMENT followed by 70 SX TYPE C. which mixes & DISAPPEARS with 80 BBS HOT WATER. Pump plug with 800 PSI. float did hold.

Phone (406) 873-4211 or (406) 873-2628

WORK ORDER & INVOICE

Remit to P.O. Box 226, Cut Bank, Montana 59427-0226

District _____ Date 5-18-82 P.O. No. _____ Treatment _____
 Company Frank's Oil Co
 Mail Invoice To IT F.M.H.I.N.
 Address Cut Bank Wyo
 Lease & Well No. Field 1-34 Job Started _____
 County Carbon State WY Field W/C Section _____ Township _____ Range _____



Type of Well: Workover Exploratory Development Zone 1st 5' Line
 Hole Data: Bore Size _____ Total Depth _____ Rotary Cable Tool Air
 Casing: New Used Size _____ Weight _____ Depth _____ Type _____
 Perforations: From _____ To _____ From _____ To _____ From _____ To _____
 Treated Perfs: From _____ To _____ From _____ To _____ From _____ To _____
 Tubing or Drill Pipe: Size 2 7/8 Weight 6.7 Total Depth 3443'
 Packer SIC Set at 3383
 Previous Treatment _____
 Reg. Acid - Gals 500 yellow 200 HCL
 Pressure 1000
 Truck ATV Mileage 37 Transport _____ Mileage _____
 Treater BEN Driver(s) JUD
 Additives Turbidizer - SURETREAT

Phones: 873-4211
873-2628
265-4402
Mobile: 873-4702

MONTANA OIL WELL CEMENTERS, INC

P. O. Box 226 Cut Bank, Montana 59427

WORK ORDER & INVOICE

BEFORE WORK IS COMMENCED THIS ORDER MUST BE SIGNED



District: Cut Bank Date: 3/19/82 Order No. _____
Company: ROY PETROLEUM INC.
Contractor: GENERAL VIEW SERVICE Rig #21
Lease and Well No.: Field 1234 Job Started: 3:45 P.M. Job Comp: 4:15 P.M.
County and State: POUNDERA, MONT. Field: WIC Section: 24 Twp: 24N Range: 6W
Mail Invoice To: ROY PETROLEUM INC. GENERAL VIEW SERVICE
Address: PO Box 300 - Cut Bank, Montana

Type of Well: Workover, Exploratory, Development, Other
Type of Job: Sur., Inter. Prod. Squeeze Pumping P & A
P. B. Other (Write In) _____

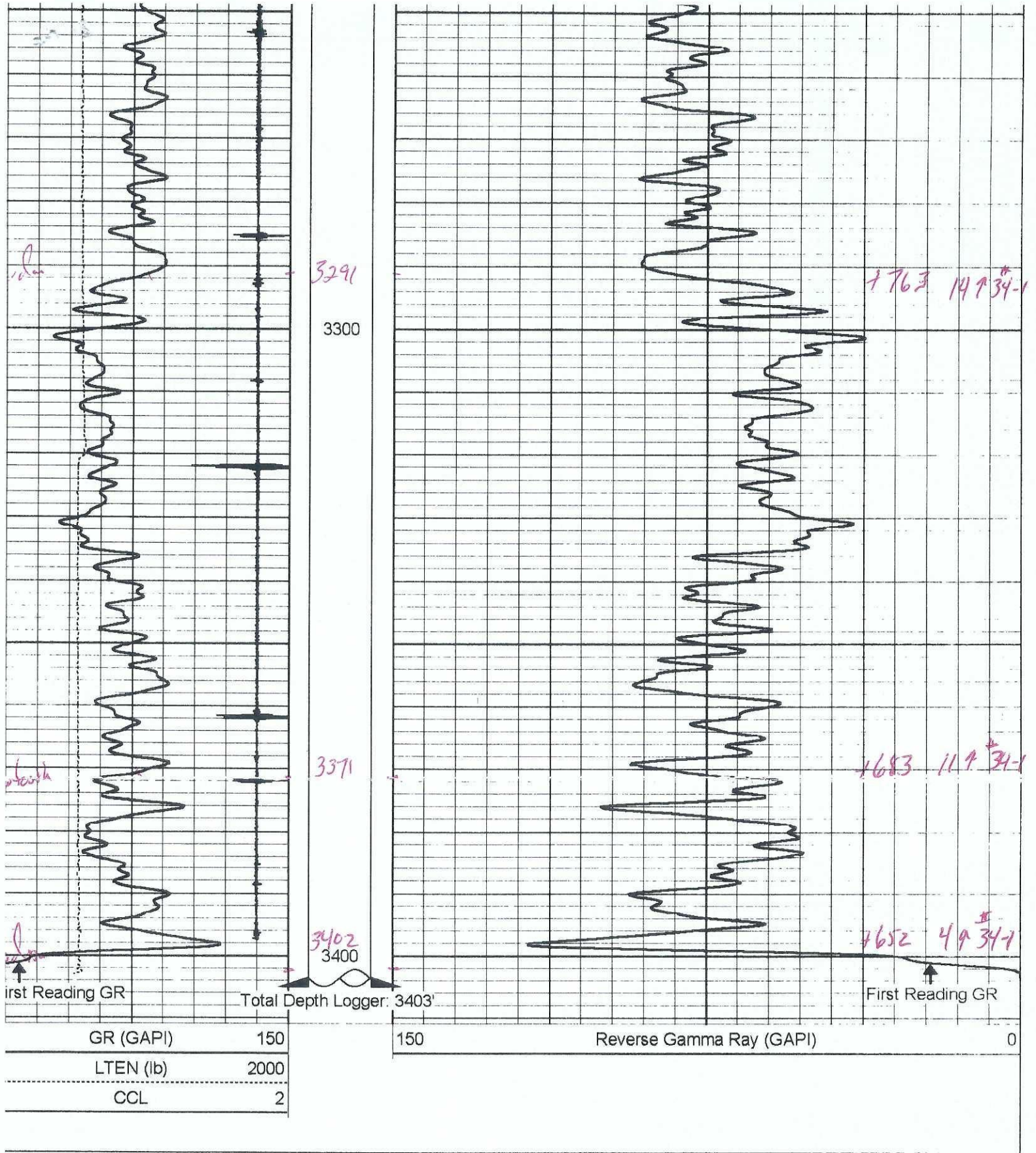
Casing: New Used Size: 8 5/8" Weight: 211 lb Depth: 178' Type: RL
Hole Data: Bore Size: 10 1/4" Total Depth: 175' Rotary Cable Tool
Tubing Or Drill Pipe: Size _____ Type _____ Weight _____ Total Depth _____
Cementing Packer: Size _____ Type _____ Weight _____ Depth Set _____
Type Float Equipment: GUIDE SHOE, INSERT FLOAT, 3 CENTRALIZERS, 1 LOCK-RING

P & A Date:	No. Sacks	No. Sacks
Plug No. 1 - From _____ To _____		Plug No. 5 - From _____ To _____
Plug No. 2 - From _____ To _____		Plug No. 6 - From _____ To _____
Plug No. 3 - From _____ To _____		Plug No. 7 - From _____ To _____
Plug No. 4 - From _____ To _____		Plug No. 8 - From _____ To _____

Others _____
Cement Data: Bulk Sacked Mixed Wt. Per Gal. 14.5 Sacks 100 Type C Brand DEEM
Admix: 3% CAC
Plugs & Heads: Top Plug 8 5/8" Type RUBBER; Bottom Plug _____ Type _____ Type Head _____
Pressure: Circulating _____ Minimum _____ Maximum _____

Displacement Data: Displaced with _____ cu. ft. 8.5 Barrels Plug back at _____
Remarks: Pump 10 BBL H₂O ahead of cement. Displace with 8.5 BBL H₂O. Pump plug with 1500 PSI. Blank did hold.

Thankyou



Repeat Section

Database File: 15637gr.db
 Dataset Pathname: pass1

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 14-34
SESW Section 34-T29N-R6W
(990' FSL – 1650'FWL)
Glacier County, Montana
API No. 25-073-21740

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: August 27, 2008
Completion Date: August 30, 2008
Status: Madison Sun River Dolomite "Wildcat Oil Well Discovery"
Elevation: 4049' GR. 4054' KB.
Total Depth: 3415' Driller
Casing: Ran 4 joints 7", 17#/ft, ltd, 8rd, ST&C, Rge 3 (164.0') set @ 161.0 KB cemented with 50sx Class G cement, 3% Calcium Chloride
Ran 83 joints 4 1/2", 9.5#/ft, 8rd, ST&C, Rge 3 (3412') set @ 3405' KB cemented with 50 sx Class G
Contractor: Sundance Exploration LLC Rig No.5
Type Rig: Ingersoll- Rand (Tophead Drive)
Mud Pump: Oilwell 214P (6" x 14")
Air Compressor: Ingersoll- Rand (1250mmcf 350psi)
Air Program: Surface to 3415'
Mud Program: None
Hole Size: 8 3/4" (0-165') 6 1/4" (165' - 3415')
Size Drill Pipe: 4 1/2" O.D. x 4" I.D. (16.60 #/ft.)
Size Drill Collars: 4 3/4" O.D. x 2 1/8" I.D. (121')
No. Drill Collars: 4 = 121'
Sample Intervals: None
Sample Quality: None
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 3 7/8" hole with air mist from surface to 3415'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

No Logs Run.

Mud Summary

None

Bit Record

No.	Size	Make	Type	Interval	Footage	Hours	Jet Size	Serial No.
1	6 1/4"	HTC	STX-20	0 - 77	77	3.00	open	ER8776
2	3 7/8"	HTC	ER-20	77-3415	3338	18.75	open	none

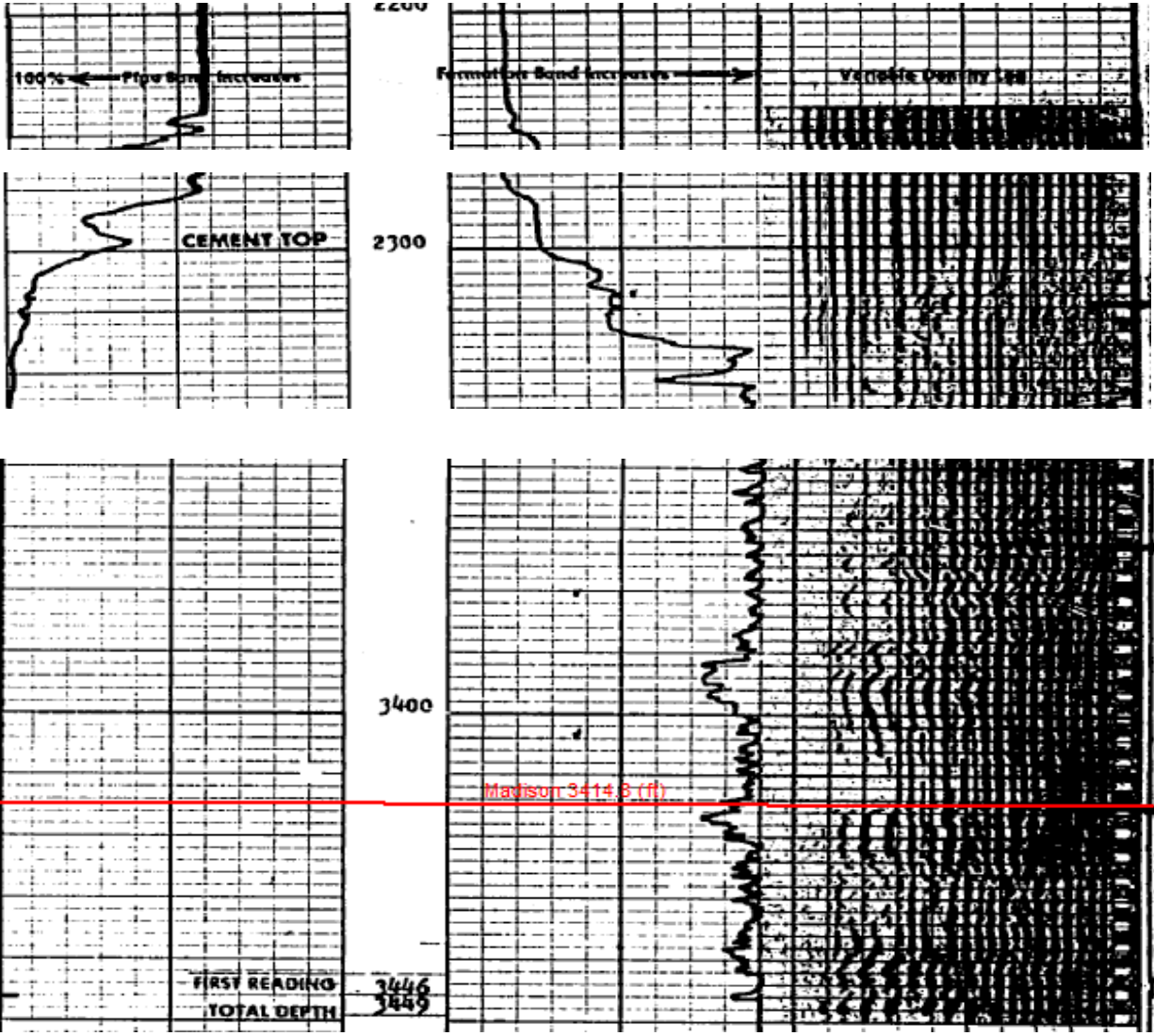
Daily Activity Summary (Calendar Days)

- August 27,2008 Moved in and Rigged up Sundance Exploration LLC Rig No. 2. Spud 6 ¼" hole at 11:45A.M. Drilled 6 ¼" hole with air mist from 0' to 77' inside 7" surface casing. Drilled 3 7/8" hole with air mist inside the 4 ½" casing. Lower camera inside 7" casing. Trip tubing into the hole and place 2 gallons of 28% Hel inside 4 ½" casing. Lower camera inside 7" casing and concluded 4 ½" casing to be clean.
- August 28,2008 T.D. 77'. Load 4 ½" casing. Unload and strap 4 ½" casing. unload 2 3/8" tubing. Rig up 7" x 4 ½" wellhead. Trip In 4 ½" casing and sting into casing. Pulled 5000#/s on 4 ½" casing and set in slips. Nipple up diverter head. Drilled 3 7/8" hole with air mist from 77' to 2400'.
- August 29,2008 Drilled 3 7/8" hole with air mist from 2400' to 3415'. Total Depth 3415' by operator. Repair rig.
- August 30,2008 T.D. 3415. Start and warm rig. Blow well down and recovered highly oil cut water. Set tubing in slips. Rigged down. Report Ends.

PRAIRIE

Seismogram Cement Bond Log

FILE NO.	COMPANY	OXY PETROLEUM, INC.	
WELL	#1-34 FIELD		
FIELD	Wildcat GROOKER SPRINGS		
COUNTY	PONDERA	STATE	MONTANA
LOCATION:	1700 FSL 1300 F.V.L. OTHER SERVICES SEC. 34 TWP. 29N R06. 6W PERFORATE, GAMMA RAY		
MEASUREMENT DATUM	C.O.L.	ELEV.	4033
LOG MEASURED FROM	WELDEYE	5 FT. ABOVE PERM. DATUM	
DRILLING MEASURED FROM	K.B.	ELEV.	K.B. 4035
DATE	APRIL 28, 1982	R.P.I. #	073-21609
RUN NO.	710	SHOT	No. of
TYPE LOG	CEMENT BOND/VDI	DENSITY	SHOT
DEPTH - DRILLER	3185		
DEPTH - LOGGER	3109		
LOGGED INTER.	3106		
TOP LOGGED INTER.	2160		
FLUID IN HOLE	WATER		
LEVEL	300		
TRUCK NO.	BYE		
OPER. RIG TIME	1 1/2 HOURS		
RECORDED BY	BROWN		
WITNESSED BY	PAYNE		



LOCATE WELL CORRECTLY

		34	
		o	

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease FIELD Well No. 14-34

Address PO BOX 488 - CUT BANK MT 59427 Field (or Area) WILDCAT

The well is located 990' ~~(N)~~ ft. from (S) line and 1650' ~~(E)~~ ft. from (W) line of Sec. 34

Sec. 34; T. 29N; R. 6W; County PONDERA; Elevation 4049' GL
(D.F., R.B. or G.L.)

Commenced drilling August 27, 2008, ~~(X)~~; Completed August 30, 2008, ~~(X)~~

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)

Signed *Patrick M. Montalban*
PATRICK M. MONTALBAN

API# 25-073-21740

Title PRESIDENT & CEO

Date SEPTEMBER 14, 2009

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From 3403 to 3415 - O & W From _____ to _____
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	161' KB	0	161'	50 Sacks	Class G Cement 3% CaCl
4-1/2"	9.5#/ft	API	ST&C	3405' KB	161'	3405'	50 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7#/ft	J55	ST&C	108 jts	None

COMPLETION RECORD

Rotary tools were used from 0 to 3,415'
 Cable tools were used from _____ to _____
 Total depth 3,415 ft.; Plugged back to _____ T.D.; Open hole from 3405 to 3,415'

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
		None			None	

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Madison/Sun River (pool) formation.

I.P. 5 barrels of oil per 24 hours (pumping or flowing)

5 Mcf of gas per 24 hours, or 5 barrels of water per 24 hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
		NONE						

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
GAMMA RAY CCL LOG		

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

Tops based on Kelly Busing Elevation 4054' KB:

Blackleaf	1764	+2290
Blackleaf Bentonite	1802	+2252
1st Bow Island	1862	+2192
2nd Bow Island	2011	+2043
3rd Bow Island	2119	+1935
4th Bow Island "A"	2354	+1700
4th Bow Island "B"	2398	+1656
Dakota	2521	+1533
Kootenai	2564	+1490
Sunburst Horizon	3079	+ 975
Morrison	3116	+ 938
Swift	3164	+ 890
Swift Shale	3237	+ 817
Rierdon	3291	+ 763
Sawtooth	3371	+ 683
Madison	3402	+ 652
Total Depth	3415	+ 639

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment B Geological and Geophysical Information

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- Figure 03. Geologic Cross Section Location
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EXHIBITS

- Exhibit A. Water Quality Analyses
- Exhibit B. Well Reports, Jody Field Wells 34-1 and 34-2

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1. GEOLOGY

The Madison Aquifer is part of the Northern Great Plains aquifer system, which extends across Montana, Wyoming, North Dakota, and South Dakota and lies beneath confining units in the proposed Underground Injection Control (UIC) area (**Figure 01**) (USGS, 1996). The Madison Aquifer in this area is comprised of the Mississippian Madison Limestone, which includes the Lodgepole Limestone, overlain by the Mission Canyon Limestone. The formations consist of marine carbonates and evaporites deposited in a shallow water environment (Downey, 1984). The Lodgepole Limestone consists mainly of fossiliferous to micritic dolomite and limestone units. The Mission Canyon Limestone consists of a coarsely crystalline limestone at its base, grading upward to finer crystalline limestone. The thickness of the Madison Limestone in northwestern Montana is mapped at approximately 1,000 to 1,200 feet as illustrated on **Figure 02** (Downey, 1984).

The Class II UIC wells (Jody Field wells 34-1 and 34-2) are completed within the Sun River Dolomite, the uppermost section of the Madison formation. The Sun River Dolomite ranges up to an average of approximately 200 feet thick in this area with the Mission Canyon and Lodgepole extending approximately 1,000 feet in thickness beneath that (Pasternack, 1988). A cross section was prepared based on well data gathered from BOGC records (**Figures 03 and 04**). As indicated in the cross section, the Sun River Dolomite, in close proximity to the proposed Class V UIC wells, is approximately 250 feet thick. The thickest injection interval in the existing Class II UIC wells is 90 feet thick.

The Sun River Dolomite has been studied extensively for its hydrocarbon production potential and has been determined to have an average porosity of 8 to 14% and average permeability of 10 to 82 millidarcy (md) with the highest values observed in the Pondera Field. **Figure 05** indicates the porosity values mapped in the Pondera field and surrounding areas. According to Pasternack (1988), two dominant porosity types are within the Sun River Dolomite: moldic porosity in discreet areas developed from dissolution of bioclastic debris and fracture porosity, which is evident throughout all areas of the Sun River Dolomite. Bioclastic debris is deposited as shallow marine bars oriented northwest-southeast. As indicated on **Figure 05**, the Jody Field wells are located within a bioclastic debris trend that intersects the Pondera and Highview Fields and have a bioclastic debris composition greater than 20%, inferring a high percentage of moldic porosity. The Class II Aquifer Exemptions established for this area by the Montana DOGC are based on a porosity in the range of 14% (Telephone conversation with George Hudak, July 2022) and confirmed in regional well logs.

2. UNDERGROUND SOURCES OF DRINKING WATER (USDWS) AND CONFINING ZONES

The Madison Aquifer is bounded by confining layers that separate it from the Lower Paleozoic and Lower Cretaceous aquifers (**Figure 06**).

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The Madison Limestone is overlain by the unconforming confining units of the Jurassic Ellis Group, which consists of the Swift, Rierdon and Sawtooth (Piper) formations. The Ellis Group forms a confining layer between the Mississippian and lower Cretaceous aquifers and is present above the Madison Sun River Dolomite as indicated in the UIC wellbore schematics for Jody Field Wells 34-1 and 34-2 (**Figures 07 and 08**).

According to USGS (2022), The Sawtooth formation in Western Montana consists of dark gray, platy to shaly, dense limestone with a local basal conglomerate. The Rierdon Formation includes gray, locally fossiliferous limestone that may contain quartz sand interbedded with greenish gray limy shale. The Swift Formation includes glauconitic, flaggy-bedded, commonly fossiliferous, fine-grained sandstone or sand coquina with dark gray shale interbeds. A dark gray, noncalcareous, micaceous shale forms the lower part of the formation, commonly with a basal chert pebble conglomerate or conglomeratic sandstone. Based on review of local well logs, the total thickness of the confining units within the Ellis group is over 220 feet.

Logs reviewed from oil and gas wells in the region indicate that the Sun River Dolomite ranges up to as much as 300 feet thick beneath the Ellis Group. Review of well logs from two nearby wells drilled deeper into the Madison indicate the presence of a dense, cherty unit with a minimum thickness of 108 feet to 147 feet directly beneath the Sun River Dolomite (API #25-073-05457 and API #25-073-05439). According to the well logs, this unit was documented to have low to no porosity.

The confining units beneath the Mississippian Madison Formation include Silurian and Devonian units consisting mainly of shaly carbonates, shale, and evaporites (**Figure 09**). Because of the fine-grained lithology and the presence of evaporites in the Silurian and Devonian units, these formations are considered to be confining beds between the Mississippian aquifer and the underlying Cambrian-Ordovician aquifer (Downey, 1984). Hydrologic modeling results of Downey (1984, 1986) indicate that vertical hydraulic conductivity between the Cambrian-Ordovician and Madison aquifers is less than 10⁻⁶ ft/d throughout the study area.

The Devonian Duperow formation, which is separated from the Madison Aquifer by the Three Forks, Potlatch and Nisku formations, has recently been classified as an underground source of drinking water (USDW) in central Montana due to intervals of total dissolved solids (TDS) concentrations less than 10,000 mg/L and greater than 3,000 mg/L. The thickness of the confining layer (Three Forks formation) in the proposed UIC area between the Madison and underlying Duperow aquifer is approximately 200 feet (Pasternack, 1988). Based on local well logs, the thickness of the Duperow Aquifer east of the UIC permit boundary is greater than 700 feet (**Figure 04**).

The proposed Class V UIC Wells are located in Pondera County, which measures 1,640 square miles and is located approximately 90 miles northwest of Great Falls, the third largest city in Montana with a population of 58,700 (**Figure 10**). The population of Pondera County has declined steadily over the past several decades and in 2022 had declined from 6,044 to 5,764 (Data USA, 2022). Agricultural production employed 45% of the County's labor force in 2017, and agricultural land accounted for 25% of the county's tax base (Montana State University, 2022). The median household income in 2020 was \$30,464 (Wikipedia, 2022).

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The local population is served by nine (9) small water systems that draw from shallow groundwater wells and local reservoirs, as well as privately owned shallow water wells. The Madison Aquifer is not currently used as a drinking water supply in the proposed UIC area. Most of the shallow Quaternary aquifers are comprised of unconsolidated alluvial deposits derived from the surrounding mountains (Noble, 1982b). According to Noble (1982b), these aquifers are primarily water-table aquifers and groundwater movement follows the topography in a downstream direction. Recharge to the shallow alluvial aquifers is primarily through rainfall and snowmelt. Deeper Tertiary aquifers in the area range from depths of 100 to 300 feet and include coarse grained interbedded sandstones, channel conglomerates, tuffs and siltstones (Noble, 1982b). Alluvial aquifers are the most used aquifers in the Great Plains region of Montana, due to their high yields and proximity to agricultural land (Noble, 1982a).

Details regarding the USDWs and Confining Units in the Area of Review (AoR) are provided in Table 1 below.

TABLE 1. USDWs in the AoR					
Formation	USDW or Confining Zone	Lithology	Thickness	Depth	TDS Concentrations
Quaternary and Tertiary Aquifers	USDW	Quaternary unconsolidated aquifers include alluvium, colluvium terrace deposits, eolian deposits, glacial deposits, high level gravels, and deeply weathered surface of some sandstone formations/Tertiary aquifers include coarse grained interbedded sandstones, channel conglomerates, tuffs and siltstones	Quaternary up to 200 ft/Tertiary <1,500 ft	Deeper Tertiary aquifers in the area range from depths of 100 to 300 feet	<3,000 mg/L in Quaternary Deposits and 500 mg/L to >5,000 mg/L in the lower Tertiary Deposits; The Fort Union Section has TDS concentrations ranging from <200 to >9,500 mg/L
Upper Cretaceous Aquifer -Hell Creek Formation and Montana Group (Fox Hills Sandstone)	USDW	Sandstone	Fox Hills approx. 300 ft, Hell Creek 500 to 1,100 ft	Approx. 300 ft to 1,800 ft	107 to 4,400 mg/L
Upper and Lower Cretaceous - Colorado Group (Colorado, Greenhorn, Blackleaf, Bow Island Formations)	Confining Zone	Mudstone-shale and Volcaniclastic	Approx. 750 ft	Approx. 1,800 ft	NA

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TABLE 1. USDWs in the AoR					
Formation	USDW or Confining Zone	Lithology	Thickness	Depth	TDS Concentrations
Lower Cretaceous Aquifer - Dakota Sandstone, Kootenai Formation (Sunburst)	USDW	Sandstone	Approx. 500-700 ft	Approx. 2500 ft	Ranges depending on location – observed at 7,000 to 12,000 mg/L (Well MT51141-07750)
Jurassic Ellis Group (Morrison, Swift, Rierdon, Sawtooth)	Confining Zone	Dense shale, silty shale and siltstone	>220 ft	Approx. 3200 ft	NA
Mississippian Madison Aquifer	USDW	Sun River Dolomite with good porosity underlain by dense, cherty upper section of Mission Canyon Limestone. Lower Mission Canyon and Lodgepole have intermittent dense, tight sections, interbedded with more transmissive units.	Sun River Dolomite: approx. 250 ft, underlain by a dense cherty unit of the Mission Canyon, approx. 108-147 ft thick	Approx. 3440 ft	5,440 mg/L (API # 25-073-21740)
Devonian Three Forks Formation (Devonian)	Confining Zone	Dense, tight limestone and shale (approx. 60 ft underlain by interbedded shale and anhydrite)	Up to 200 ft	Approx. 3800 ft to 4190 ft	NA
Devonian Duperow Aquifer	USDW	Dense, tight crypto to microcrystalline dolomite with poor to fair porosity	>700 ft	Approx. 4,500 ft	9,470 to 13,800 mg/L (API # 25-073-21523)
(Sources: Noble, 1982a; Flight, 2004; Fowler, 2020)					

3. WATER QUALITY

The primary minerals within the Madison Limestone include calcite, dolomite, and anhydrite, with dissolution of anhydrite and dolomite largely contributing to the water quality throughout the aquifer (Busby, 1991). The presence of hydrogen sulfide odor in the wells analyzed by the USGS was also noted during sampling and was determined to be due in part to a terrigenous source of sulfur, which has been noted in the proposed UIC area (Telephone conversation with George Hudak, July 2022).

Due to the presence of anhydrites, the TDS concentrations in the Madison Aquifer vary greatly from less than 1,000 mg/L to greater than 300,000 mg/L, depending on the location within the formation and groundwater flow characteristics (Downey, 1984). According to George Hudak, UIC

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Coordinator, Montana BOGC, the TDS concentration in the proposed UIC area ranges above 5,000 mg/L.

The Montana Bureau of Mines and Geology mapped TDS concentrations in the immediate surrounding areas. The data were collected from oil tests or production wells between 1920 and 1977 and indicated TDS concentrations in the Sun River Dolomite ranging from around 4,490 to 6,660 mg/L and TDS concentrations in the Madison Formation ranging from around 3,240 to 7,100 mg/L (Feltis, 1980b). A water sample collected from Well 14-34 (API #25-073-21740), which is centrally located within the UIC area, indicated a TDS concentration of 5,440 mg/L (Exhibit A). A water sample collected from Well 4-1 (API#25-073-21824) indicated a calculated TDS concentration of 5,109 mg/L (Exhibit A).

Details regarding water quality in the known USDWs in the AoR are summarized in Table 1. Regional groundwater flow direction through the southern and eastern portion of the Madison Aquifer is northeastward (USGS, 1996). A potentiometric surface map generated by the Montana Bureau of Mines and Geology based on local oil and gas well data indicates a northward groundwater flow direction in the vicinity of the UIC wells (Feltis, 1980a). The proposed UIC area is located on the western edge of the Great Plains, west of the Sweetgrass Arch and east of the Intermountain Seismic Belt. **Figure 11** indicates that the proposed UIC area is located several miles east of mapped faults in an area with low earthquake risk. No mapped or known faults lie within the AoR. Depth to basement from the base of the Sun River Dolomite is estimated to be over 2,000 feet (Figure 04).

4. FORMATION DATA

Well records for the Jody Field wells (Exhibit B) indicate that the bottom hole fluid pressure is 1,096 psi with a temperature of 77° F. Fracture pressures are included in the workover reports provided in Exhibit B.

Formation fluid water quality data was collected within the proposed area-wide UIC permit boundary during drilling of Well No. 4-1 in 2007. The formation fluid was reported to have a pH of 7.5, specific gravity of 1.007, a measured conductivity of 8,480 µmhos/cm and a calculated TDS concentration of 5,109 mg/L. The water analysis report for Well 4-1 is included in Exhibit A.

The injection zones are completed within the Sun River Dolomite, the uppermost section of the Mississippian Madison Formation. As discussed in Section 1 (Geology), the Sun River Dolomite within the area-wide UIC permit boundary appears to have a bioclastic debris composition greater than 20%, resulting in a porosity in the range of 14% which is consistent with field observations. The receiving formation is composed predominantly of a vugular dolomite (CaMg(CO₃)₂) with locally interbedded anhydrites (CaSO₄). The dolomite is typically associated with minor quantities of goethite (FeOOH), hematite (Fe₂O₃), and quartz (SiO₂) (Busby, 1991).

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5. REFERENCES

Busby John F, et al., Geochemical Evolution of Water in the Madison Aquifer in Parts of Montana, South Dakota, and Wyoming, U.S. Geological Survey Professional Paper 1273-F, 1991

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FIGURES

- Figure 01. Aquifers and Confining Units of the Northern Great Plains Aquifer System
- Figure 02. Northern Great Plains Aquifer System, Madison Formation Thickness
- Figure 03. Geologic Cross Section Location
- Figure 04. Geologic Cross Section
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- Figure 06. Northern Great Plains Aquifer System Stratigraphic Column
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- Figure 09. Thickness of underlying Devonian Confining Layer
- Figure 10. Map of Pondera County
- Figure 11. Seismic Map

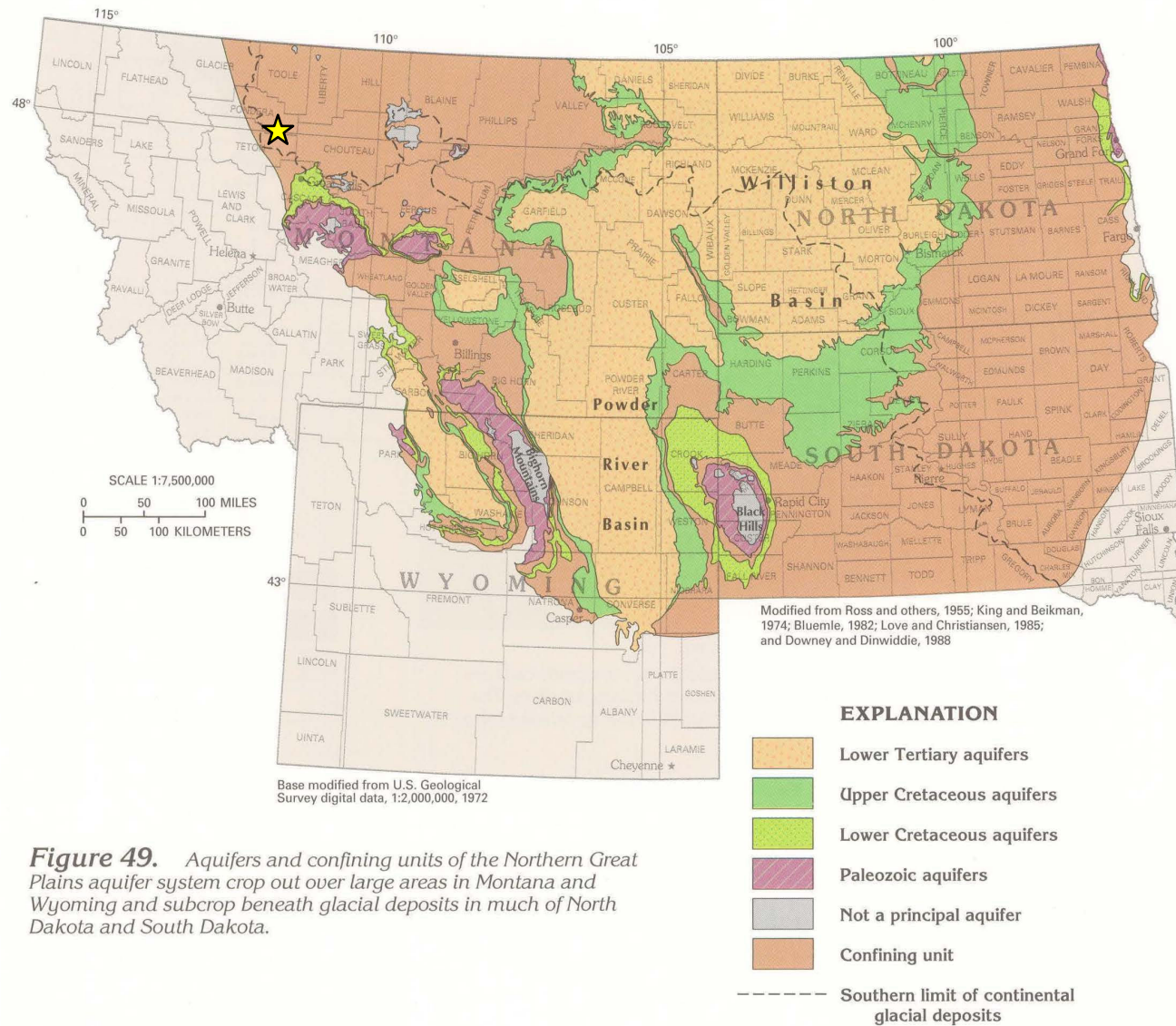


Figure 49. Aquifers and confining units of the Northern Great Plains aquifer system crop out over large areas in Montana and Wyoming and subcrop beneath glacial deposits in much of North Dakota and South Dakota.

Geohydrology of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 730-I; Figure 49

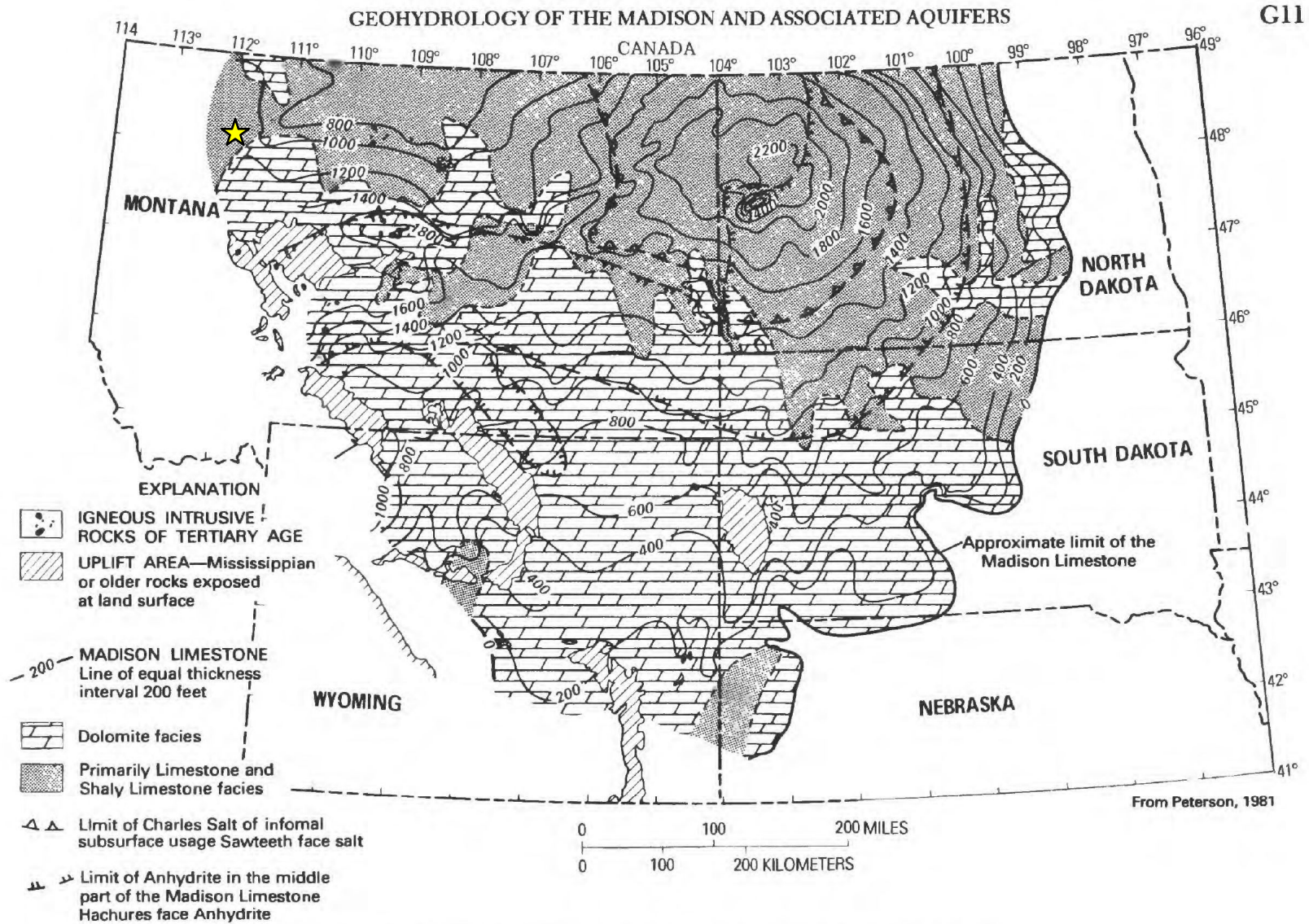
AQUIFERS AND CONFINING UNITS OF THE NORTHERN GREAT PLAINS AQUIFER SYSTEM

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS

Attachment B FIGURE 01

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





Geography of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 1273-G; Figure 11

**NORTHERN GREAT PLAINS
AQUIFER SYSTEM - MADISON FORMATION THICKNESS**

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE UIC
APPLICATION
JODY FIELD WELLS**

**Attachment B
FIGURE 02**

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





Service Layer Credits: Hybrid Reference Layer: Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, USDA

Well Location

- Active Injection
- P&A - Approved
- Shut In
- Dry Hole
- Oil

Cross Section

Area-Wide UIC

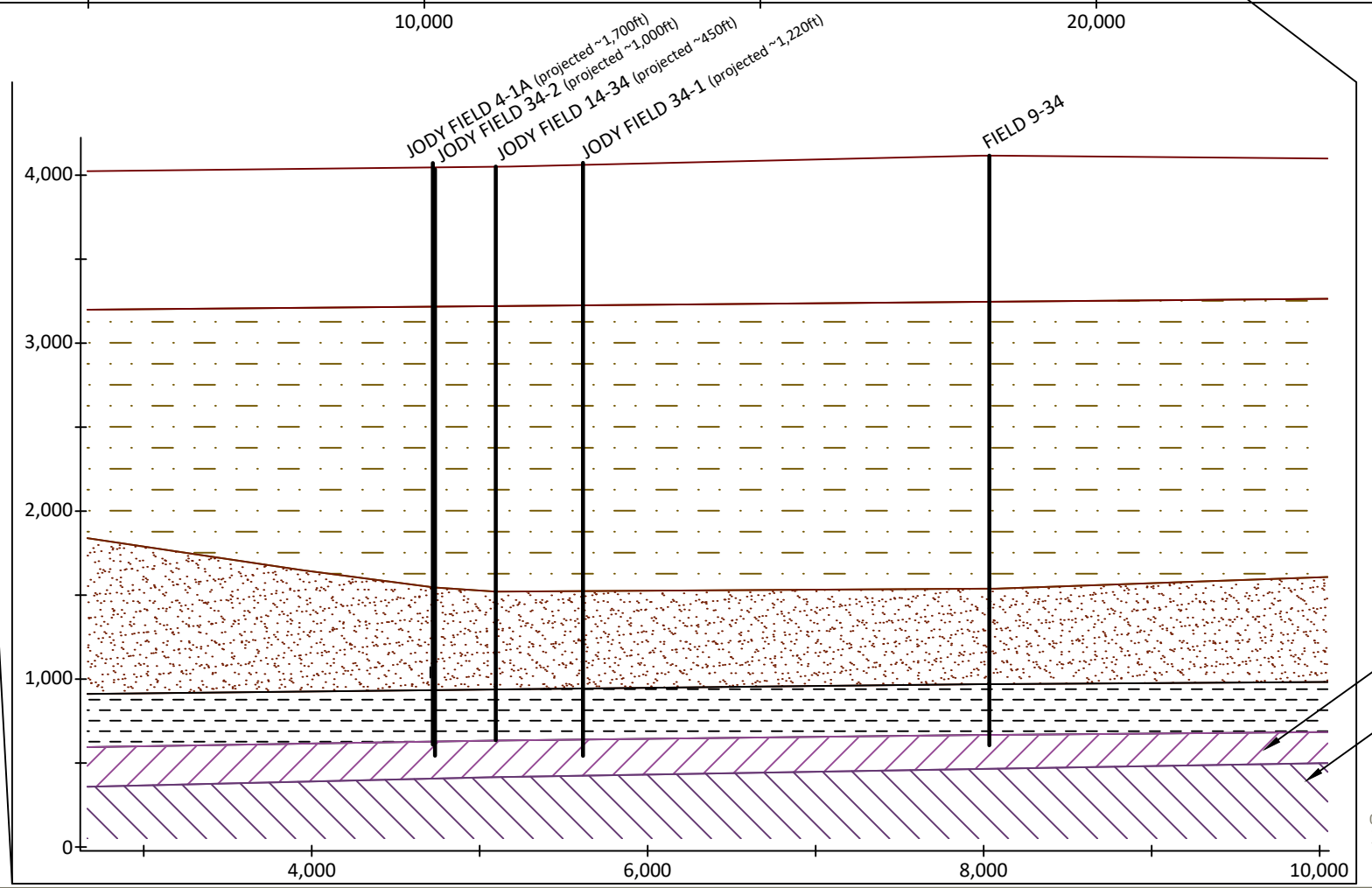
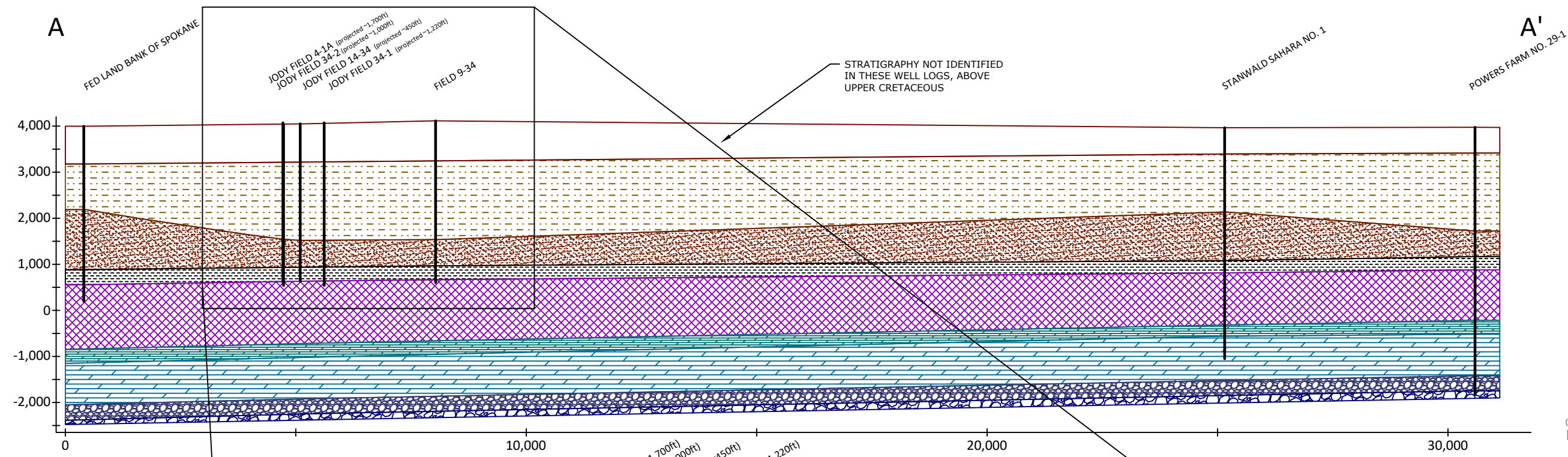
GEOLOGIC CROSS SECTION LOCATION

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment B
Figure 03**

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





GEOLOGIC MATERIALS:

- UPPER CRETACEOUS
- LOWER CRETACEOUS
- JURASSIC ELLIS GROUP
- MISSISSIPPIAN MADISON AQUIFER
- DEVONIAN - THREE FORKS FORMATION
- DEVONIAN - DUPELOW AQUIFER
- CAMBRIAN
- PRE-CAMBRIAN

Notes

1. 1X Vertical Exaggeration
2. Stratigraphy interpolated and extrapolated from well logs within ~2,000ft of cross section line A-A'; using 3D visualization software, Earth Volumetric Studio (EVS).
3. Some wells are projected to the cross section line, projection distance is as identified on this figure (behind well name).

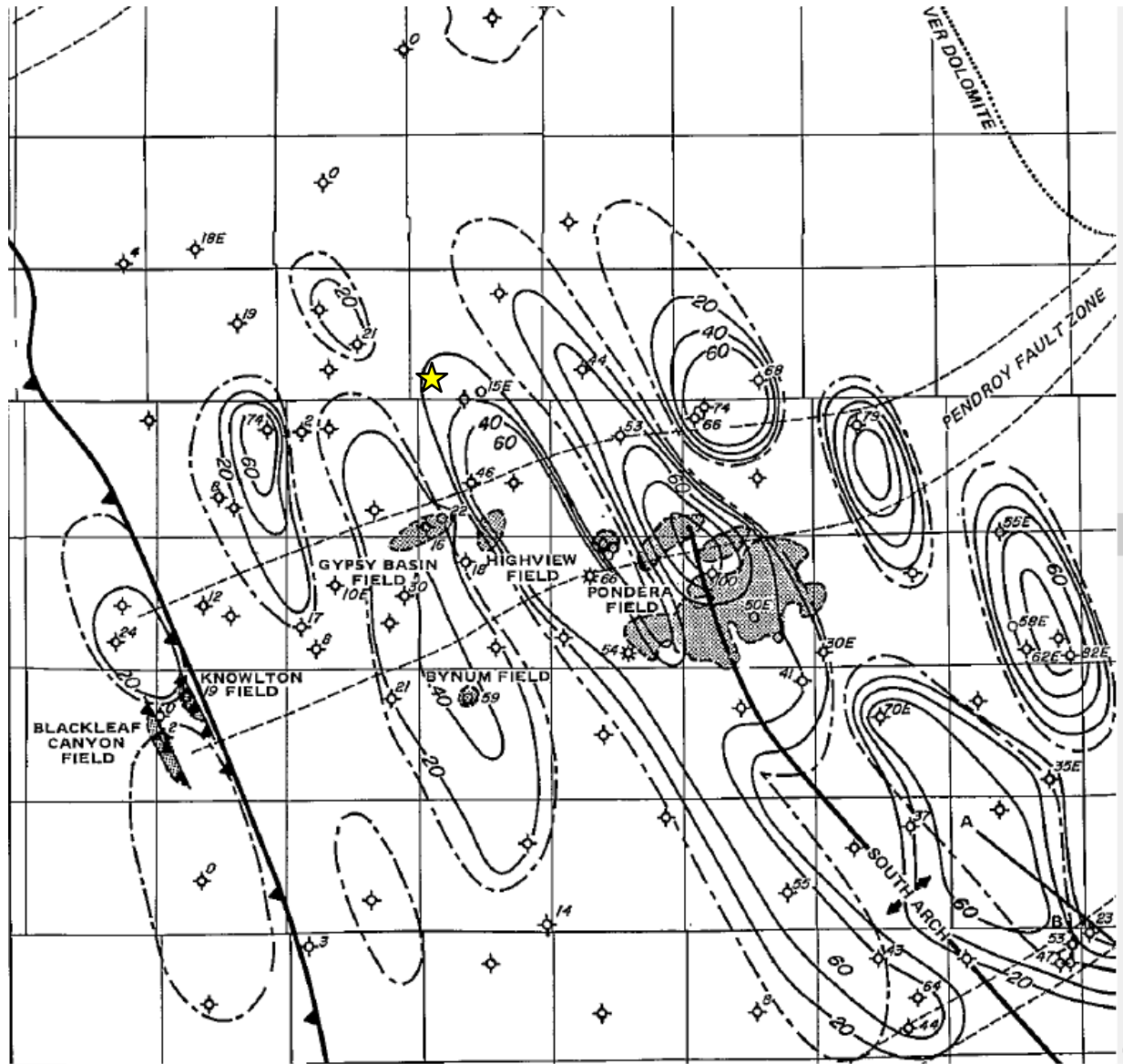
**GEOLOGIC CROSS SECTION
A-A'**

MONTALBAN OIL AND GAS OPERATIONS INC
AREA WIDE AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

**Attachment B
Figure 04**

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





Pasternack, Ira, Nature and Distribution of Mississippian Sun River Dolomite Porosity, West Flan of the Sweetgrass Arch, Northwestern Montana, August 16, 1988

★ Approximate Site Location

Figure 07

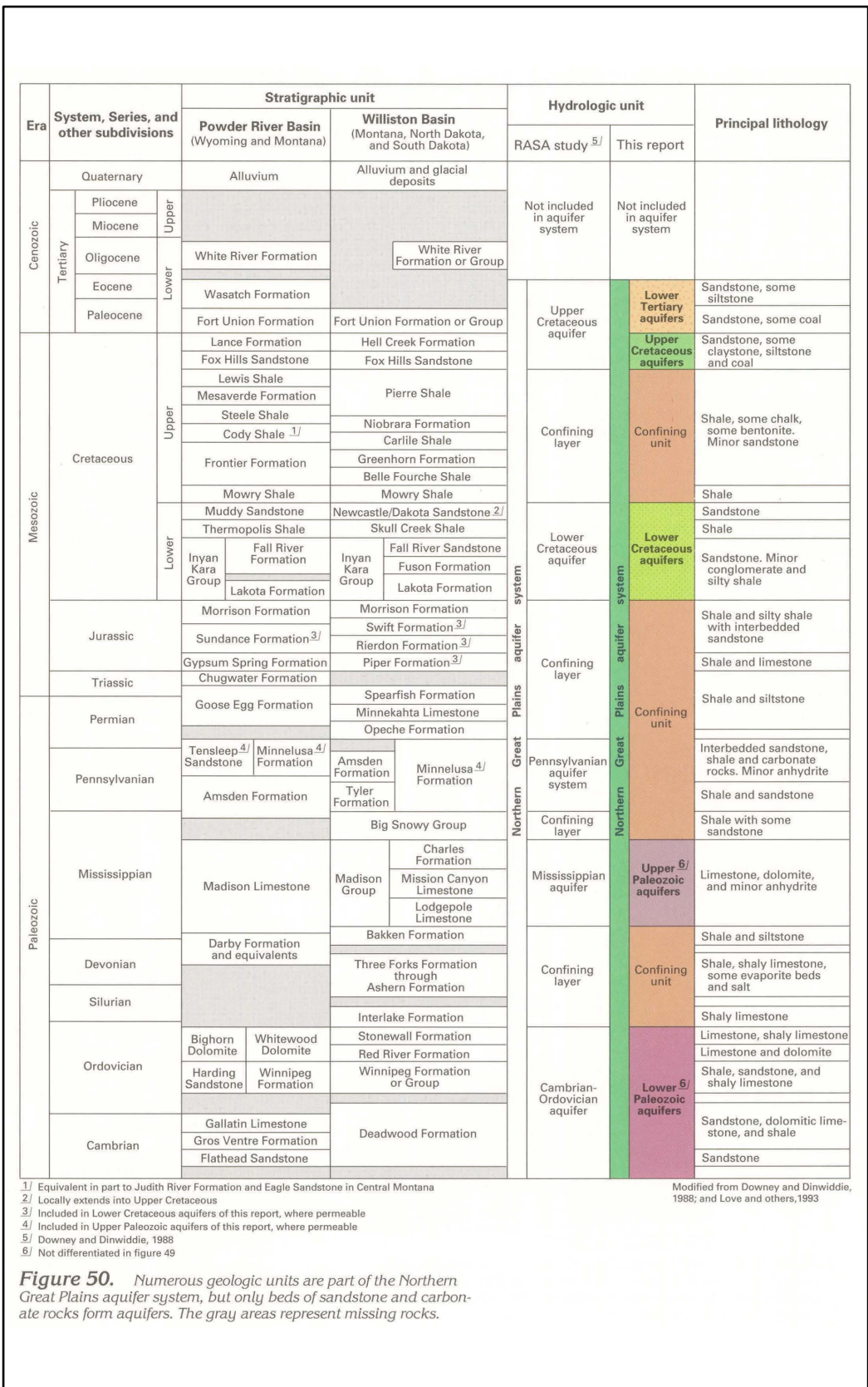
SUN RIVER DOLOMITE POROSITY ISOPACH MAP

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS

Attachment B FIGURE 05

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





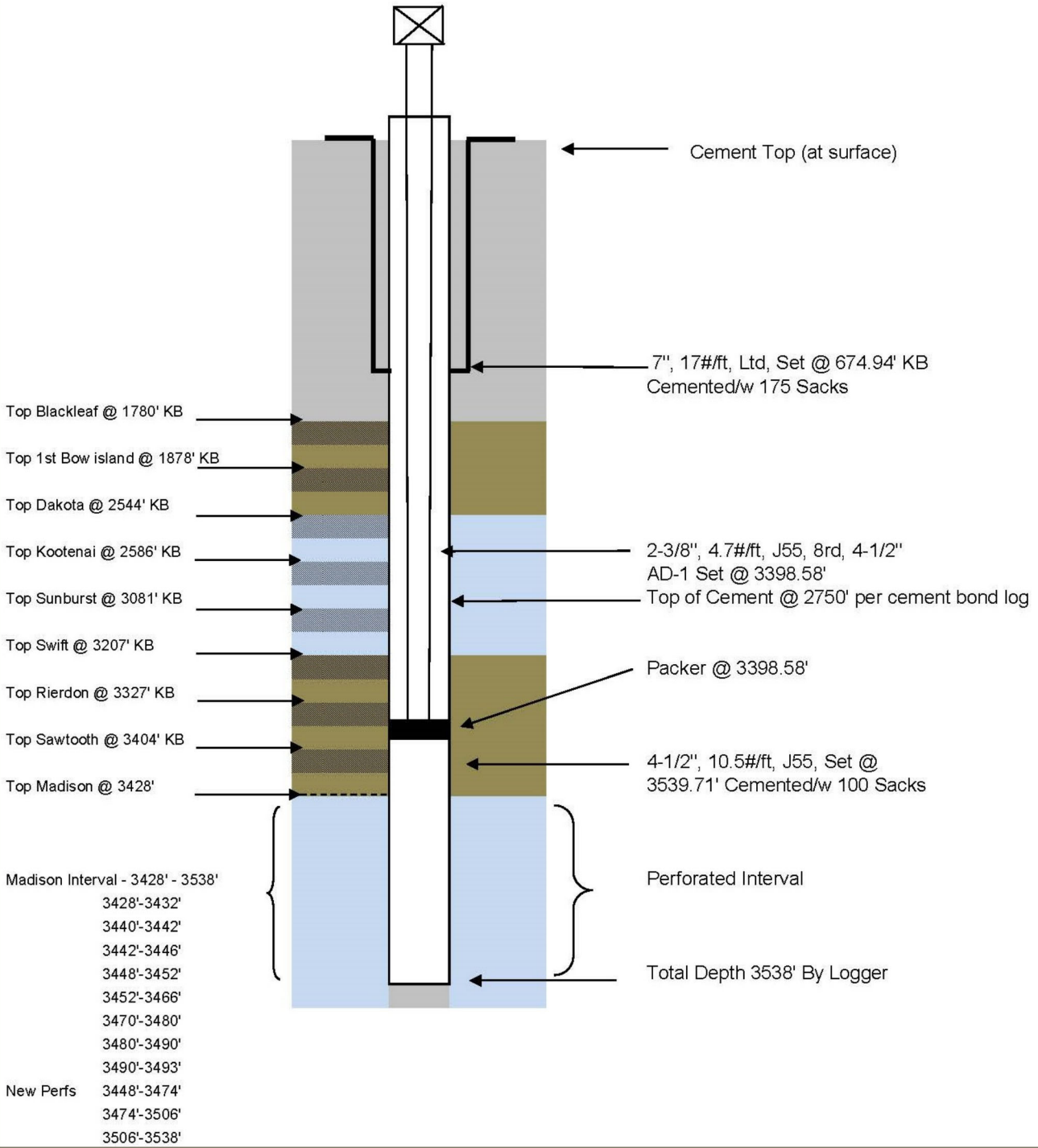
^{1/} Equivalent in part to Judith River Formation and Eagle Sandstone in Central Montana
^{2/} Locally extends into Upper Cretaceous
^{3/} Included in Lower Cretaceous aquifers of this report, where permeable
^{4/} Included in Upper Paleozoic aquifers of this report, where permeable
^{5/} Downey and Dinwiddie, 1988
^{6/} Not differentiated in figure 49
 Modified from Downey and Dinwiddie, 1988; and Love and others, 1993

Figure 50. Numerous geologic units are part of the Northern Great Plains aquifer system, but only beds of sandstone and carbonate rocks form aquifers. The gray areas represent missing rocks.

Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W (330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment B
Figure 07

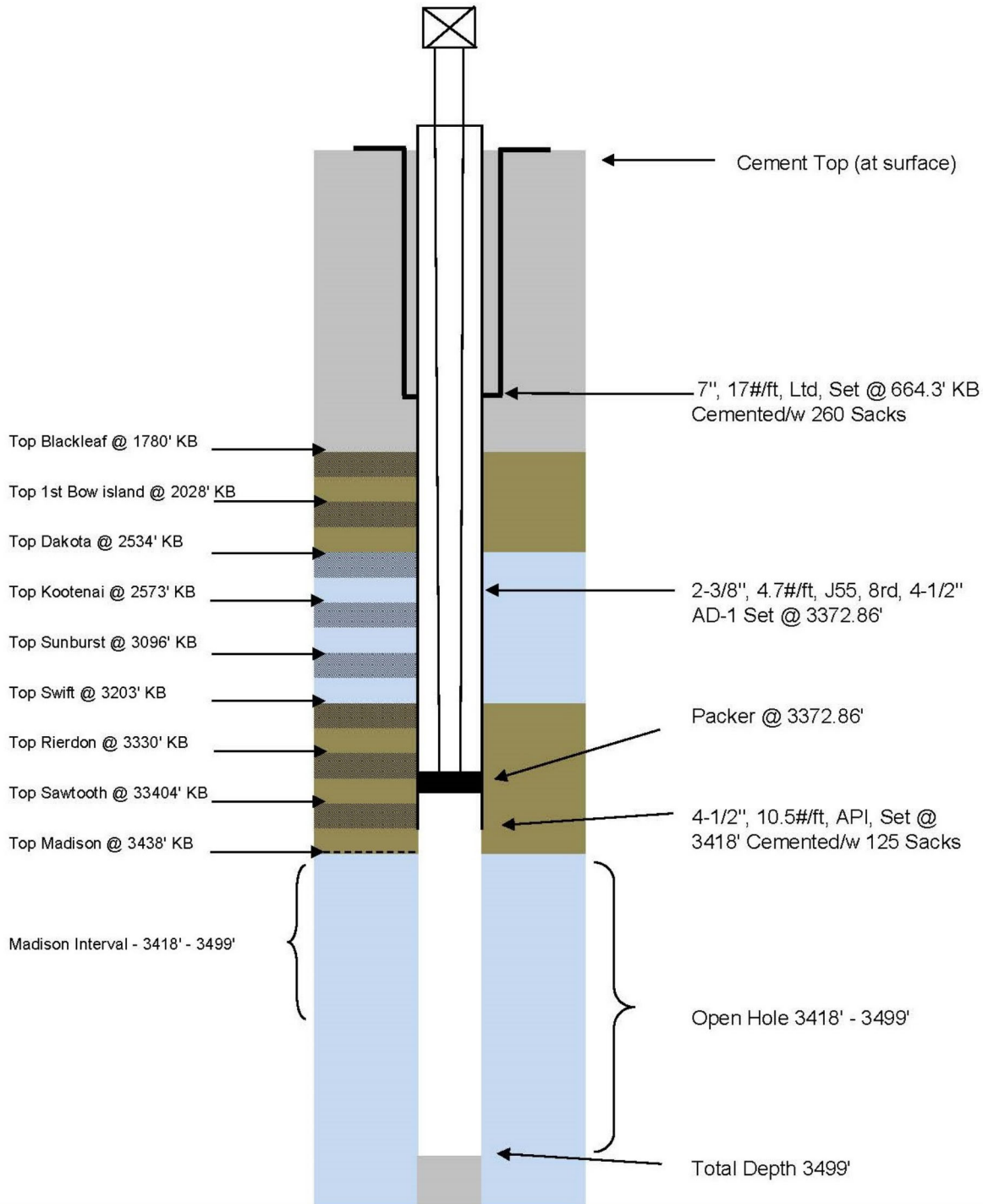
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment B
Figure 08

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



G10

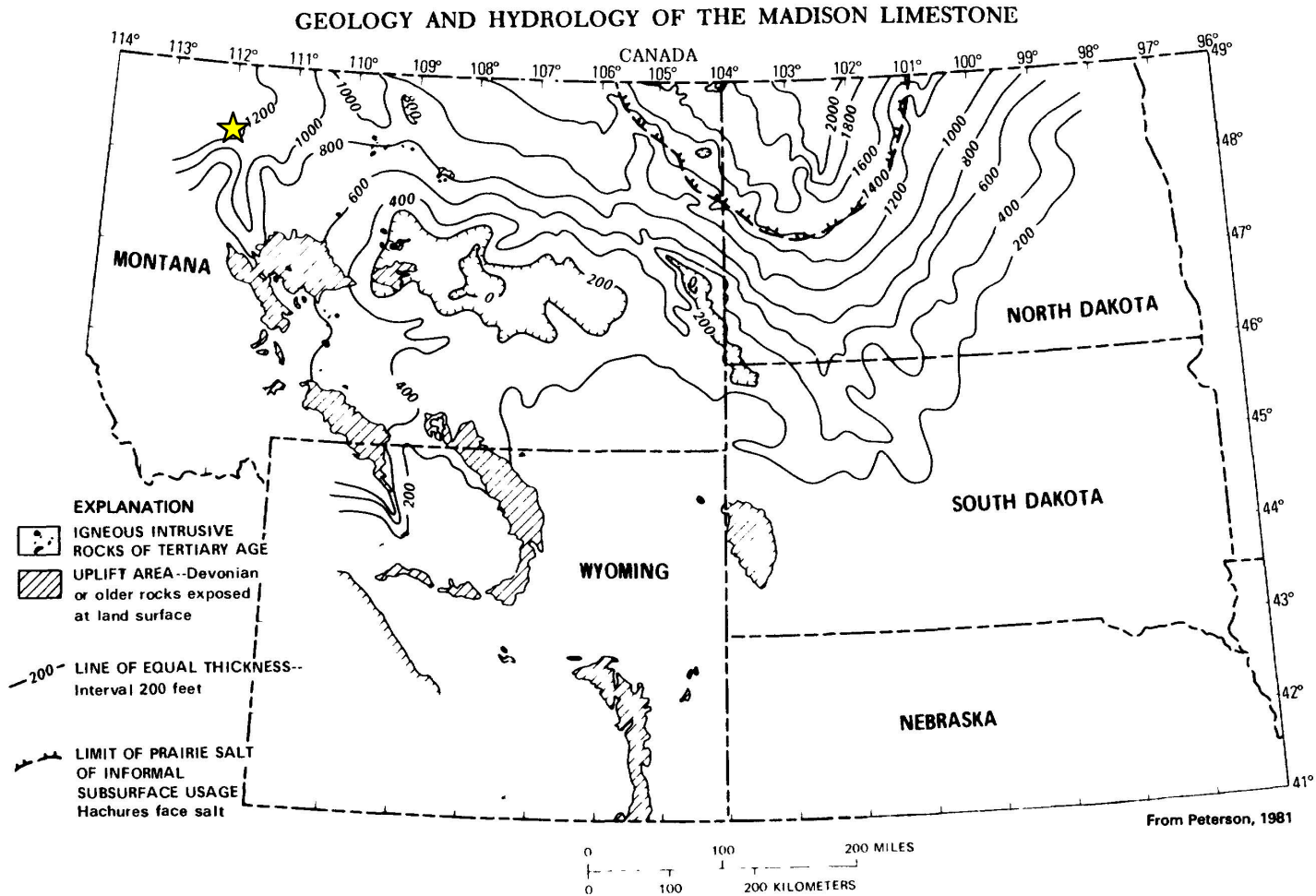


FIGURE 9. – Thickness of Devonian rocks.

Geohydrology of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 1273-G; Figure 9

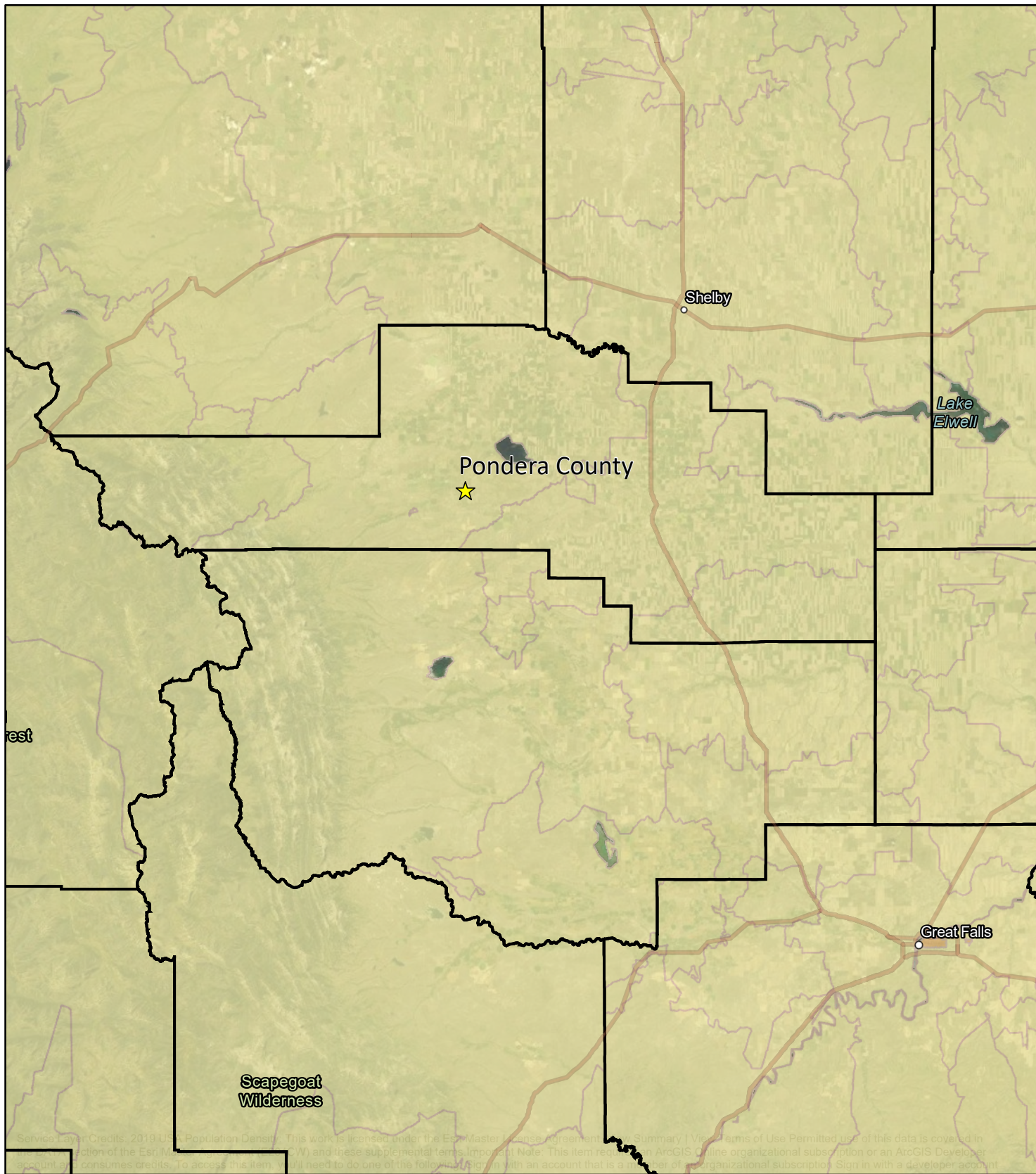
THICKNESS OF UNDERLYING DEVONIAN CONFINING LAYER

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS

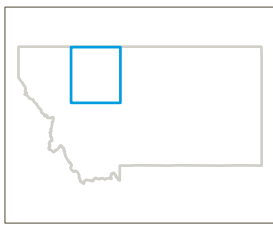
Attachment B
FIGURE 09

RAMBOLL US CONSULTING, INC.
 A RAMBOLL COMPANY












Service Layer Credits: 2019 US Population Density. This work is licensed under the Esri Master License Agreement. Summary | View Terms of Use Permitted use of this data is covered in the Esri Master License Agreement (MLA) and these supplemental terms. Important Note: This item requires an ArcGIS online organizational subscription or an ArcGIS Developer account. Consumes credits. To access this item, you will need to do one of the following: Log in with an account that is part of an organizational subscription. Sign in with a developer account.



KEY MAP (not to scale)

-  Site Location
-  County Lines
-  0 - 1,000 people per sq mi
-  1,000 - 8,400 people per sq mi
-  8,400 - 15,800 people per sq mi
-  15,800 - 24,000 people per sq mi
-  24,000 - 629,000 people per sq mi

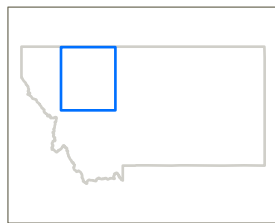
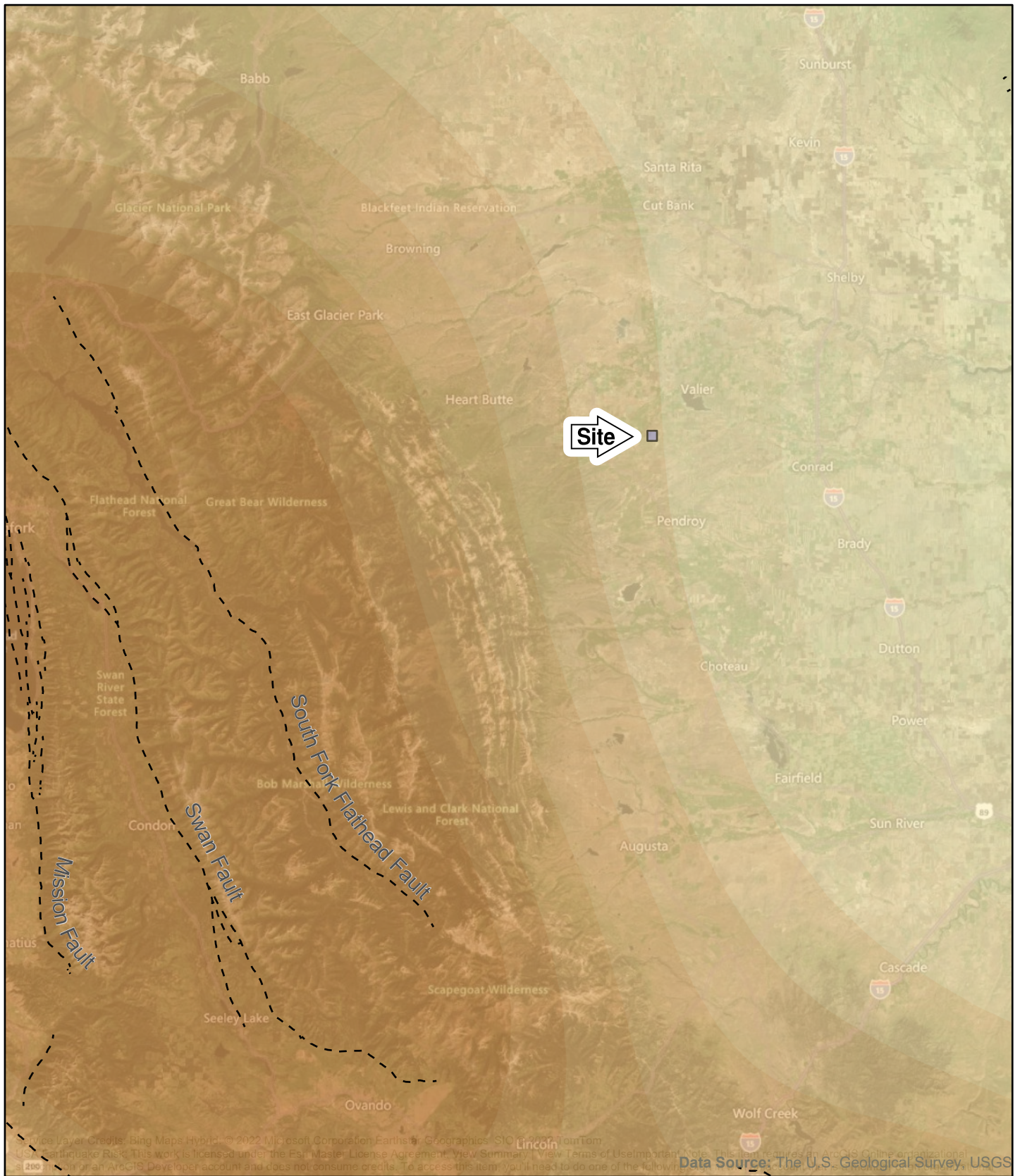
MAP OF PONDERA COUNTY
MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS



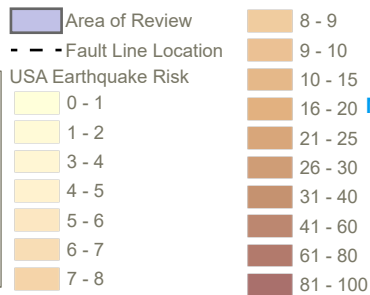
Attachment B
Figure 10

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





KEY MAP (not to scale)



SEISMIC MAP
MONTALBAN OIL AND GAS OPERATIONS
INC- AREA WIDE UIC
APPLICATION
JODY FIELD WELLS



Data Source: The U.S. Geological Survey, USGS

Attachment B
Figure - 11

RAMBOLL US CONSULTING, INC.
 A RAMBOLL COMPANY



Privileged and Confidential

EXHIBIT A
Water Quality Analyses



ANALYTICAL SUMMARY REPORT

December 05, 2007

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cutbank, MT 59427

Workorder No.: B07120154

Project Name: Altamont Jody Fields

Energy laboratories Inc received the following 1 sample from Altamont Oil & Gas Inc on 12/4/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B07120154-001	#4 - 1 Well	12/03/07 12:00	12/04/07	Aqueous	Conductivity Resistivity Salinity

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

RECEIVED

DEC 10 2007

ALTAMONT OIL & GAS, INC



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields
 Lab ID: B07120154-001
 Client Sample ID: #4 - 1 Well

Report Date: 12/05/07
 Collection Date: 12/03/07 12:00
 Date Received: 12/04/07
 Matrix: Aqueous

Analysis	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Salinity	4.69			0.10		Calculation	12/05/07 08:36 / klc
Conductivity	8480	umhos/cm		1		A2510 B	12/04/07 12:01 / kh
Resistivity @ 68 F	1.18	ohm-m		0.04		E120.1	12/05/07 14:45 / klc

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
Project: Altamont Jody Fields

Report Date: 12/05/07
Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2510 B							Batch: PHSCO71204A			
Sample ID: PHC1070910A Conductivity	Laboratory Control Sample 157	umhos/cm	1.0	103	90	110			12/04/07 08:58	
Sample ID: PHC1070810A Conductivity	Laboratory Control Sample 5120	umhos/cm	1.0	102	90	110			12/04/07 08:59	
Sample ID: B07120150-001ADUP Conductivity	Sample Duplicate 907	umhos/cm	1.0				0.5	10	12/04/07 11:57	

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B07120154

Login completed by: Eric L. Frank

Date and Time Received: 12/4/2007 9:15 AM

Reviewed by: Staci Fread

Received by: elf

Reviewed Date: 12/4/2007 8:02:40 PM

Carrier name: UPS NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	14°C
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Contact and Corrective Action Comments:

Letter of instruction provided from client.



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
Project: Altamont Jody Fields
Lab ID: B07120154-001
Client Sample ID: #4 - 1 Well

Report Date: 12/07/07
Collection Date: 12/03/07 12:00
Date Received: 12/04/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Salinity	4.69			0.10		Calculation	12/05/07 08:36 / klc
Conductivity	8480	umhos/cm		1		A2510 B	12/04/07 12:01 / kh
Resistivity @ 68 F	1.18	ohm-m		0.04		E120.1	12/05/07 14:45 / klc

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

January 03, 2008

Patrick Montalban
 Altamont Oil & Gas Inc
 PO Box 488
 Cutbank, MT 59427

Workorder No.: B07120154

Project Name: Altamont Jody Fields

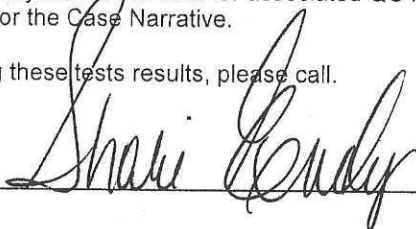
Energy Laboratories Inc received the following 1 sample from Altamont Oil & Gas Inc on 12/4/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B07120154-001	#4 - 1 Well	12/03/07 12:00	12/04/07	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Anions by ion chromatography Conductivity Specific Gravity pH Preparation, Dissolved Filtration Resistivity ROF report format Salinity Solids, Total Dissolved - Calculated

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



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JAN 14 2008

ALTAMONT OIL & GAS, INC



Company: Altamont Oil & Gas Inc	Date: 1/3/2008
Field: Altamont Jody Fields	Sample Date: 12/3/2007
County: 0	Formation:
Location: #4 - 1 Well	Rock Type:
Lab ID: B07120154-001	Depth:
Comments:	

Water Analysis Report

<u>CATIONS</u>	<u>mg/l</u>	<u>meq/l</u>	<u>ANIONS</u>	<u>mg/l</u>	<u>meq/l</u>
Potassium	81	2.07	Sulfate	25	0.52
Sodium	1,970	85.69	Chloride	1,380	38.92
Calcium	45	2.25	Carbonate	<1	0.00
Magnesium	48	3.95	Bicarbonate	3,120	51.15
Iron	nd	nd	Bromide	nd	nd
Barium	nd	nd	Organic Acids	nd	nd
Strontium	nd	nd	Hydroxide	<1	0.00
SUM +	2,144	93.96	SUM -	4,525	90.59

Solids

Total Dissolved Solids @180°C	nd mg/l
Total Solids, Calculated	5,109 mg/l
Total Solids, NaCl equivalents	4,298 mg/l
Chloride as NaCl	2,275 mg/l
NaCl, % of Total Dissolved Solids	44.52 %
Accuracy	-2.23 Sigma

Sample Conditions

pH, s.u. (Field)	7.50 s.u.
Sample Pressure	14.70 psia
Surface Temp	70.00 °F
Downhole Temp	na °F
Ionic Strength	0.096 µ

Dissolved Gases

Bisulfide ion	nd	Dissolved O ₂ , aq	nd
Hydrogen Sulfide	nd	Total CO ₂ , aq	2,427 mg/l
Total Sulfide	nd		

Other Properties

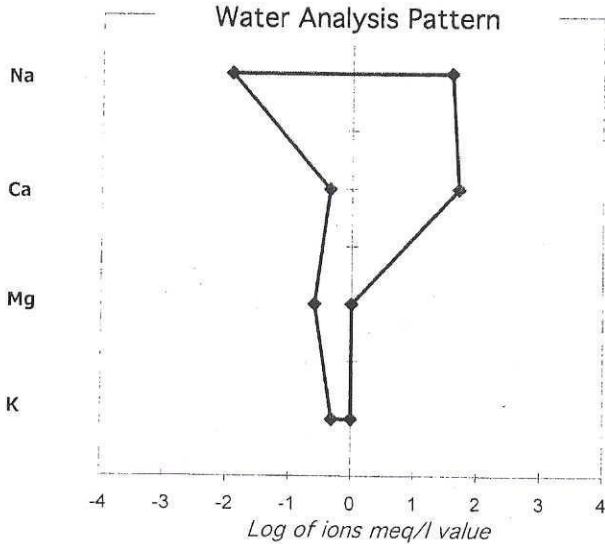
Calcium Hardness as CaCO ₃	112 mg/l	Specific Gravity	1.007 measured
Magnesium Hardness as CaCO ₃	198 mg/l	Specific Gravity	1.005 calculated
Total Hardness as CaCO ₃	310 mg/l	Resistivity, 68°F	1.18 ohm-m
		Conductivity 25°C	8,480 umhos/cm

Microbiological

Sulfate Reducing	nd
Aerobic Bacteria	nd

Scaling Conditions

Calcium Carbonate	CaCO ₃ +
Calcium Sulfate	CaSO ₄ - - -
Barium Sulfate	BaSO ₄ -
Strontium Sulfate	SrSO ₄ -



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Probable Mineral Residue, Dry

Calculation error = -3.7 %

ALTAMONT OIL & GAS, I

<u>COMPOUND</u>	<u>mg/l</u>
NaHCO ₃	3,705
NaCl	2,275
Mg(HCO ₃) ₂	289
Ca(HCO ₃) ₂	182
Na ₂ SO ₄	37.0

Note: nd denotes 'Not Determined'



QA/QC Summary Report

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: ALK071220A		
Sample ID: MBLK	Method Blank								
Alkalinity, Total as CaCO3	2	mg/L	1						
Bicarbonate as HCO3	2	mg/L	1						
Carbonate as CO3	ND	mg/L	1						
Hydroxide as OH	ND	mg/L	1						
Sample ID: LCS	Laboratory Control Sample								
Alkalinity, Total as CaCO3	97.7	mg/L	1.0	96	90	110			
Sample ID: B07121500-001ADUP	Sample Duplicate								
Alkalinity, Total as CaCO3	2080	mg/L	1.0				4.5	20	
Bicarbonate as HCO3	2540	mg/L	1.0				4.5	20	
Carbonate as CO3	ND	mg/L	1.0				0.0	20	
Hydroxide as OH	ND	mg/L	1.0				0.0	20	
Method: A2510 B							Batch: PHSC071204A		
Sample ID: PHC1070910A	Laboratory Control Sample								
Conductivity	157	umhos/cm	1.0	103	90	110			
Sample ID: PHC1070810A	Laboratory Control Sample								
Conductivity	5120	umhos/cm	1.0	102	90	110			
Sample ID: B07120150-001ADUP	Sample Duplicate								
Conductivity	907	umhos/cm	1.0				0.5	10	
Method: A4500 H							Analytical Run: ORION555A_071220B		
Sample ID: PHC1071130A	Initial Calibration Verification Standard								
pH	7.01	s.u.	0.10	100	98	102			
Method: A4500 H							Batch: PHSC071220A		
Sample ID: B07121618-003ADUP	Sample Duplicate								
pH	7.76	s.u.	0.10				1.2	10	

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: 30333		
Sample ID: MB-30333	Method Blank		Run: ICP202-B_071227A				12/27/07 11:51		
Calcium	0.04	mg/L	0.009						
Magnesium	ND	mg/L	0.01						
Potassium	0.03	mg/L	0.02						
Sodium	ND	mg/L	0.1						
Sample ID: B07121574-001BMS2	Sample Matrix Spike		Run: ICP202-B_071227A				12/27/07 12:06		
Calcium	92.7	mg/L	1.0	97	70	130			
Magnesium	67.5	mg/L	1.0	101	70	130			
Potassium	53.0	mg/L	1.0	103	70	130			
Sodium	59.6	mg/L	1.0	103	70	130			
Sample ID: B07121574-001BMSD2	Sample Matrix Spike Duplicate		Run: ICP202-B_071227A				12/27/07 12:09		
Calcium	93.3	mg/L	1.0	98	70	130	0.7	20	
Magnesium	67.3	mg/L	1.0	100	70	130	0.3	20	
Potassium	53.2	mg/L	1.0	104	70	130	0.4	20	
Sodium	60.2	mg/L	1.0	105	70	130	1.0	20	
Method: E200.7							Analytical Run: ICP202-B_071227A		
Sample ID: QCS	Initial Calibration Verification Standard						12/27/07 10:09		
Calcium	50.1	mg/L	1.0	100	90	110			
Magnesium	49.0	mg/L	1.0	98	90	110			
Potassium	50.7	mg/L	1.0	101	90	110			
Sodium	50.5	mg/L	1.0	101	90	110			

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0							Analytical Run: IC202-B_071221A		
Sample ID: ICV	Initial Calibration Verification Standard						12/21/07 10:02		
Chloride	25.2	mg/L	1.0	101	90	110			
Sulfate	101	mg/L	1.0	101	90	110			
Method: E300.0							Batch: R104331		
Sample ID: ICB	Method Blank						Run: IC202-B_071221A 12/21/07 10:14		
Chloride	0.04	mg/L		0.03					
Sulfate	ND	mg/L		0.06					
Sample ID: LFB	Laboratory Fortified Blank						Run: IC202-B_071221A 12/21/07 10:26		
Chloride	9.27	mg/L	1.0	92	90	110			
Sulfate	37.2	mg/L	1.0	93	90	110			
Sample ID: B07120154-001AMS	Sample Matrix Spike						Run: IC202-B_071221A 12/21/07 11:35		
Chloride	2580	mg/L	1.5	96	90	110			
Sulfate	4890	mg/L	3.1	97	90	110			
Sample ID: B07120154-001AMSD	Sample Matrix Spike Duplicate						Run: IC202-B_071221A 12/21/07 11:47		
Chloride	2560	mg/L	1.5	94	90	110	0.9	20	
Sulfate	4850	mg/L	3.1	97	90	110	0.8	20	

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B07120154

Log in completed by: Eric L. Frank

Date and Time Received: 12/4/2007 9:15 AM

Reviewed by: Staci Fread

Received by: elf

Reviewed Date: 12/4/2007 8:02:40 PM

Carrier name: UPS NDA

- | | | | |
|---|---|--|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | 14°C |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

Letter of instruction provided from client.

RECEIVED
 JAN 14 2008
 ALTAMONT OIL & GAS, INC



**** REPORT ****

Altamont Oil & Gas Inc
Patrick Montalban
PO Box 488
Cutbank MT 59427

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

1/15/2008

Dallig 6037
Altamont Field 41



LABORATORY ANALYTICAL REPORT

Client: MCR LLC
 Project: Berthelote Water Disposal
 Lab ID: B08042696-002
 Client Sample ID: Disp System

Report Date: 05/06/08
 Collection Date: 04/24/08 06:45
 Date Received: 04/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	3220	mg/L		10		A2540 C	04/25/08 13:39 / afb
IN ORGANICS							
Alkalinity, Total as CaCO3	2010	mg/L		1		A2320 B	04/25/08 21:40 / kh
Sulfate	159	mg/L		1		E300.0	04/28/08 20:05 / qed
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.14	mg/L		0.05		E353.2	05/02/08 13:39 / bls

Water Sample from #4-1
Less gal Disp 3. gal another
the sample from #11-34 and 1 cell in Fields #11-34 (Fields Water Disposal)

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

March 11, 2009

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cut Bank, MT 59427

Workorder No.: B09030751

Project Name: Permit

Energy Laboratories Inc received the following 1 sample for Altamont Oil & Gas Inc on 3/10/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B09030751-001	SESW-Section 34-T29N-R6W, Jody Fields #14-34	03/05/09 0:00	03/10/09	Aqueous	Solids, Total Dissolved

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
Project: Permit
Lab ID: B09030751-001
Client Sample ID: SESW-Section 34-T29N-R6W, Jody Fields #14-34

Report Date: 03/11/09
Collection Date: 03/05/09
Date Received: 03/10/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	5440	mg/L		10		A2540 C	03/10/09 16:24 / afb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc

Report Date: 03/11/09

Project: Permit

Work Order: B09030751

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: TDS090310A
Sample ID: MBLK2	Method Blank								Run: CPA124S_090310B 03/10/09 16:23
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10						
Sample ID: LFB2	Laboratory Fortified Blank								Run: CPA124S_090310B 03/10/09 16:23
Solids, Total Dissolved TDS @ 180 C	1090	mg/L	10	99	90	110			
Sample ID: B09030751-001A MS	Sample Matrix Spike								Run: CPA124S_090310B 03/10/09 16:24
Solids, Total Dissolved TDS @ 180 C	7770	mg/L	10	101	80	120			
Sample ID: B09030751-001A MSD	Sample Matrix Spike Duplicate								Run: CPA124S_090310B 03/10/09 16:25
Solids, Total Dissolved TDS @ 180 C	7770	mg/L	10	101	80	120	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B09030751

Altamont Oil and Gas Inc

Login completed by: Krystal McDonald

Date and Time Received: 3/10/2009 11:15 AM

Reviewed by: Denise Ruby

Received by: Ig

Reviewed Date: 3/10/2009 12:55:00 PM

Carrier name: Std US Mail

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	15°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None

Chain of Custody and Analytical Request Record

PLEASE PRINT - Provide as much information as possible.

Company Name: ALTAMONT OIL & GAS, INC Report Mail Address: PO BOX 488 CUT BANK MT 59427 Invoice Address: SAME AS ABOVE Special Report/Formats - EII must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> GSA <input type="checkbox"/> Format: <input type="checkbox"/> POT/WW/WTP <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC <input type="checkbox"/> State: _____ <input type="checkbox"/> Other: _____		Project Name, PWS, Permit, Etc.: PERMIT Contact Name: _____ Phone/Fax: (406) 873-2835 FAX: (406) 873-9000 PATRICK M. MONTALBAN (406) 873-9000 Invoice Contact & Phone: PATRICK M. MONTALBAN OR CARLA BARRINGER		Sample Origin: State: MONTANA Email: DOUG DEZORT Quote/Bottle Order:		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/> Sampler: (Please Print) DOUG DEZORT	
Sample Type: (Type of Container) (Vegetation, Possessory, Other)		ANALYSIS REQUESTED SEE ATTACHED		Contact EII prior to RUSH sample submittal for charges and scheduling - See instruction page Comments: R U S H			
Matrix (Name, Location, Interval, etc.) SESV SECTION 34-T29N-R6W Jody Fields #14-34 2 3 4 5 6 7 8 9 10		Normal Turnaround (TAT) X		Receipt Temp: 15 °C On Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Custody Seal: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> Bottles/Coasters: B <input type="checkbox"/> C <input type="checkbox"/> Intact: Y <input type="checkbox"/> N <input type="checkbox"/> Signature Match: Y <input type="checkbox"/> N <input type="checkbox"/> 20103075M			
Received by (print): Carla Barringer Date/Time: 3/9/09		Received by (print): _____ Date/Time: _____		Received by Laboratory: 3-10-09 11:15 Signature: <i>Carla Barringer</i>			
Custody Record MUST be Signed		Lab Disposal: XX		Sample Disposal: Return to Client. In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.			

Privileged and Confidential

EXHIBIT B

Well Reports, Jody Field Wells 34-1 and 34-2

**Engineering Completion
Report**

**Montalban Oil & Gas Operations Inc
MOGO/Jody Field 34-1
NWNW – Section 34-T29N-R6W
(2310' FSL – 990' FWL)
Pondera County, Montana
API #25-073-21838**

**Altamont Oil & Gas Inc
Patrick M. Montalban
Petroleum Consultant
PO Box 488
Cut Bank, MT 59427**

Resume

Spud Date: August 28, 2008

Completion Date: May 6, 2008

Status: Madison Sun River Dolomite Injection Well

Elevation: 4071' GR 4076' KB

Total Depth: 3540' Driller 3539' Logger
4 1/2" set @ 3540' Float Collar 3495'

Hole Size: 8 3/4" (0 - 679') 6 1/4" (679' - 3540')

Casing Size: 7", 17#/ft, Ltd, ST&C, set @ 674.94' KB
w/175 sacks Class G Cement
4 1/2", 105#/ft, SPI, J55, ST&C, Rge 3 set
@ 3539.71 KB w/100 sacks Class G
Cement. Float collar @ 3495.42 KB

Perforations: 3428' - 3432' = 4 SPF = 3 1/8" HSC
3442' - 3446' = 4 SPF = 3 1/8" HSC
3440' - 3442' = 4 SPF = 3 1/8" HSC
3448' - 3452' = 4 SPF = 3 1/8" HSC
3452' - 3466' = 4 SPF = 3 1/8" HSC
3470' - 3480' = 4 SPF = 3 1/8" HSC
3480' - 3490' = 4 SPF = 3 1/8" HSC
3490' - 3493" = 4 SPF = 3 1/8" HSC
3448' - 3474' = 4 SPF = 3 1/8" Exp.
3474' - 3506' = 4 SPF = 3 1/8" Exp.
3506' - 3538' = 4 SPF = 3 1/8" Exp.

New Perforations

Bridge Plug: None

Tubing: 105 joints 2 3/8", 4.7 #/ft, J55. 8rd,
ST&C set @ 3398.58' with 4 1/2' x 2
38" ADI

Seating Nipple: None

Rods: None

Pump: None

Pumping Unit: None

Daily Activity Summary

Wednesday
September 2, 2022

70°F – 95°F Clear Sky. 30 mph from the west.

Began operations @ 9:00 am.

Moved in and rigged up Liquid Gold Well Service Rig No. 6. Haul in and set circulating tank and power swivel.

Rigged up 2:30 pm. Unseat 4 ½” x 2 3/8” AD-1 packer unseated @ 3:00 pm. Pack off tubing. Start and go through circulating pump. Shut down operations due to high winds 30-40 mph. Shut down operations @ 3:30 pm.

Total Rog Hours: 6 ½ hrs x \$260.00=		\$1,690.00
Travel Time: (2 Trucks) (per man) =		\$180.00
Tracking Costs:		
Pickup Costs: 2 trucks x \$60.00 =		\$120.00
Fuel Surcharge: 10% =		\$169.00
Environmental Safety =		\$50.00
Tool Pusher		\$350.00
Extra Labor: 1 man x \$45.00/hr =		<u>\$292.50</u>
		\$2,851.50
Winch Truck: 3 hrs x \$165.00 =		\$495.00
2 hrs Tanker: 2 x \$165.00 =		\$330.00
1 Pickup: (\$60 per unit) =		\$60.00
Fuel Surcharge: 10% =		\$82.50
Pump Truck Mileage: 40 miles x \$4.00		\$160.00
1 Travel per Man: 2 x \$45.00 =		<u>\$90.00</u>
		\$1,217.50
1 day Consulting = 1500/2 =		\$750.00
Mileage: 60 miles x 1.00 =		<u>\$60.00</u>
		\$810.00
Total Daily Costs =		\$4,879.00

Thursday
September 8, 2022

56°F – Cloudy Sky – 10-15 mph wind from North
Began operations @ 8:00 am. Well
flowed and equalized on the backside. Pulled and
strapped 2 3/8", 4.7#/ft tubing out of the hole. Pulled 105
joints 2 3/8", 4.7#/ft with 4 1/2" x 2 3/8" AD-1 Packer.
Tubing tally as follows

1 – 4 1/2" x 2 3/8" AD-1 Packer	=	2.50'
1 – 2 3/8" seating Nipple	=	1.10'
105 joints 2 3/8", 4.7#/ft, J55, 8rd	=	3391.98'
Total	=	3395.58'
KB	=	<u>3.0</u>
Total String	=	3398.58' KB

Stop and pick up 2 joints of 2 3/8" tubing. Tagged as
follows and slowly circulated to T.D.

		3398.58' KB
2 joints of 2 3/8" tubing	=	<u>62.90'</u>
		3461.48' KB

Stop and pick up 1 joint of 2 3/8" tubing

1 joint of 2 3/8" tubing	=	<u>31.45'</u>
Total 108 joints		
Total Tubing	=	3492.93' KB

48°F – Raining and very cloudy @ 2:00 pm.
Tagged @ 3461' KB and circulated to total depth 3493'
KB and recovered thick black oily sulphur water with
many solids. Circulated the last 15' to total depth 3493'
KB. Well went on a vacuum and we lost 15 bbls in 1
hour from the circulating tank. Successful clean out
of the well. Shut down operations @ 6:00 pm.

Total Rig Hours: 10 hrs x \$260.00	=	\$2,600.00
Travel Time: 4 men x 2 hrs x \$45.00	=	\$360.00
Trucking Costs		
Pickup Costs: 2 trucks x \$60.00	=	\$1,200.00
Circulating Tank: (Pump Tank)	=	\$550.00 /day
Power Swivel: 1 x \$250.00	=	\$250.00
Fuel Surcharge: 10%	=	\$315.00
Environmental & Safety	=	\$50.00
Tool Pusher		\$350.00
Swivel Delivery: 40 miles x \$4.00	=	\$160.00
3 7/8" Bit	=	\$600.00

Bit Sub	=	\$50.00
Extra Labor: \$45.00/hour x 10 hrs	=	\$450.00
Circulating Rubber	=	\$300.00
Pipe Dope	=	<u>\$25.00</u>
		\$6,180.00
Vacuum Truck: 2 ½ hrs x \$145.00	=	\$362.50
1 Pickup	=	\$60.00
1 hr Travel per Man	=	\$90.00
Fuel Surcharge	=	<u>\$36.25</u>
Total		\$548.75
1 day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	\$60.00
		<u>\$810.00</u>
Total		\$7,538.75

Friday
September 9, 2022

43°F – Raining and cold – NW wind from NW
Began operations @ 8:00 am. Ran 4 ½” x 2 3/8” AD-1 packer with 105 joints of 2 3/8”, 4.7#/ft tubing. Tubing string as follows:

1 – 4 ½” x 2 3/8” AD-1 Packer	=	2.50’
1 – 2 3/8” Seating Nipple	=	1.10’
105 joints 2 3/8”, 4.7#/ft, J55 8rd ST&C Tubing	=	3391.98’
Total String	=	3395.58’
KB	=	<u>3.00’</u>
Total String KB	=	3398.58’ KB

Moved in and rigged up Liquid Gold Pump and Transport Truck. Pressure up backside to 500#/s. Acidized well with 1000 gallons of 28% Hcl (23.8 bbls) Acid job as follows:

Pumped acid @ 1000#/s to load perforations
Pumped 23.8 bbls Hcl acid @ 1000 bbls @ 1 bbl/minute
Pumped displacement @
 Pumping – 2.0 bbls/minute @ 1200#/s
 Pumping – 3.0 bbls/minute @ 1750#/s
 Pumping – 3.0 bbls/minute @ 1100#/s
 Over displaced by 30.0 bbls
Instant shut in Pressure = 1000#/s
5 minute shut in Pressure = 100#/s
7 minute shut in Pressure = 0#/s

Well on a vacuum. Unseat 4 1/2" x 2 3/8" AD-1 Packer and pulled 105 joints of tubing. Pick up 3 7/8" bit and sub and ran tubing string as follows:

1 – 3 7/8" bit and bit sub	=	1.25
108 joints 2 3/8 " , 4.7#/ft		
J55, 8rd, ST&C	=	3492.93'
Total String	=	3494.18'
Pick up 1 joint 2 3/8" tubing	=	31.45
Total string = 109 joints		
		3525.63 Gr
Add KB	=	<u>3.0'</u>
		3528.63 KB

Tagged float collar @ 3492.93 KB. Picked up power swivel and began to drill float collar @ 3:00 pm. Drilled from 3 7/8" from 3:00 pm to 5:30 pm. Shut down operations @ 5:30 pm

Total Rig Hours: 9 hrs x \$260.00	=	\$2,470.00
Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00 per man	=	\$270.00
Fuel Surcharge: 10%	=	\$357.00
Environmental & Safety	=	\$50.00
Supervisor: \$350.00 per day	=	\$350.00
Pump Tank: \$550.00 per day	=	\$550.00
Power Swivel: \$550.00 per day	=	\$550.00
4 1/2" AD-1 Packer: Rental 1 day x \$250	=	\$250.00
Crossover Sub	=	<u>\$50.00</u>
Total Rig Costs	=	\$5,017.00

Acid Job = 1000 gallons 28% Hcl

Acid Pump Truck	=	\$1,600.00
Pump Truck Mileage	=	-----
Bulk Acid Truck: \$750 per day	=	\$750.00
Mileage Bulk truck: \$4.00/mile x 40 miles	=	\$160.00
1000 gallons 28% Hcl	=	\$3,250.00
Additives	=	\$489.50
1 Pickup: \$60.00 per day	=	\$60.00
Fuel Surcharge: 10%	=	\$249.50
Environmental & Safety	=	<u>\$75.00</u>
Total Costs	=	\$6,779.00

Total Rig Costs = \$11,796.00

Consulting: \$1500per day/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total		\$12,606.00

Monday
September 12, 2022

59°F – Very Smokey – North/North West wind 15 mph.
Began operations @ 8:00 am. Rigged up power swivel and drilling equipment. Drilled from 9:00 am – 10:30 am. Drilled out 4 1/2" float collar @ 10:30 am. Drilled 3 7/8" hole from 3495' to 3528.63'. Picked up 110th joint and drilled from 3528.63' to 3538.63' from 10:30 am to 12:00 pm. Drilled 3 7/8" hole from 3583.63' to 3543'. Tag guide shoe. Began to torque up 3 7/8" bit. Total depth @ 3543' KB by rig operators. Circulate and clean hole. Total pipe tally below:

1 – 3 7/8" bit and bit sub	=	1.25'
Ran 109 2 3/8", 4.7#/ft, J55, 8rd ST&C Rge 3	=	3524.38'
Total String	=	3525.63'
Add KB = 3'	=	<u>3.00'</u> 3528.63'
Picked up 110 joints = 31.45'		
Drilled 14' of the 110 joints	=	<u>14.0'</u>
Total String		3542.63'

Total depth 3543.0' KB by rig operator. Circulated hole clean for 1 hr. Hole clean. Tripped 110 joints out of the hole. Pick up 3 7/8" bit and casing scraper.

69° - Very smokey – North/Northwest wind @ 15 mph
Trip 110 joints 2 3/8", 4.7#/ft tubing into hole and tag total depth 3543' KB by operator. Circulated hole and reciprocate a number of times from 3420' – 3543' KB. Circulated tubing and rotate tubing and well cleaned out to total depth with no fill. Lift tubing above 3420'. Shut down operations @ 5:00pm.

Total Rig hours: 9hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45/hr/man	=	\$360.00
Fuel Charge: 10%	=	\$344.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$550.00
Power Swivel	=	\$550.00
4 1/2" Scraper	=	\$150.00
3 7/8" Bit for Scraper	=	\$200.00
Extra Labor: (1 guy) \$45/hr	=	\$405.00
Bit Sub	=	\$50.00

Pipe Dope	=	<u>\$25.00</u>
Total Daily Costs	=	\$5,494.00
1 Day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total Daily Costs	=	\$6,304.00

Tuesday
September 13, 2022

59°F – Very Smokey – Very little wind
Began operations @ 11:00 am. Tripped to total depth 2543' KB and tagged no fill. Rolled hole and circulated well clean. Trip out of hole for perforating company. Rigged up Nine Energy Service @ 2:00 pm. Ran 3.75" gauge ring to total depth 3538' KB. Perforated 3506' – 3538' = 4 SPF, 3 1/8" expendable gun. 32' = 120 shots, successful shooting. Perforated 3474' – 3506' = 4 SPF, 3 1/8" expendable gun. 32' = 120 shots, successful shooting. Perforated 3448' – 3474' = 4 SPF, 3 1/8" expendable gun. 26' = 96 shots, successful shooting. Shot 90' of the Sun River Dolomite Formation. Rigged down Nine Energy Service. Tripped in _____ joints of 2 3/8" tubing with a 4 1/2" x 2 3/8" SD-1 Packer with 3 joints of tail pipe. Tubing tally as follows:

1 – 4 1/2" x 2 3/8" AS-1 Packer	=	2.50'
1 – 2 3/8" seating nipple	=	1.10'
105 joints 2 3/8", 4.7#/ft, J55, 8rd ST&C Rge 3	=	3391.98'
Total	=	3395.58'
KB = 3'	=	<u>3.0'</u>
		3398.58'
3 joints of tubing = total 108 joints =		<u>94.35'</u>
3 joints of tubing below packer		
Set @ _____		3492.93'

Packer set @ 3398.58' KB

Set 4 1/2" x 2 3/8" AS-1 Packer @ 3399' KB. Shut down operations @ 6:30 pm

Total Rig Hours: 7 1/2 x \$260.00	=	\$1,950.00
Daily Pickup: 2 hrs x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$250.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$550.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$3,515.00

3 hours water tanker: 3 x \$165.00	=	\$495.00
2 hours pickup: 2 x \$45.00	=	\$90.00
1 pickup:	=	\$60.00
Fuel Surcharge: 10%	=	\$49.50
Environmental: \$50.00/day	=	<u>\$50.00</u>
		\$744.50

Nine-CDK Perforating LLC
Perforated Madison Sun River Dolomite \$28,770.00

1 day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00/mile	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs = \$33,839.50

Perforating Summary

**MOGO/Jody Fields 34-1
SESESW Section 34-T28N-R6W
Pondera County Montana**

No. 1 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3506’ – 3538’
3 1/8” Expendable Gun = 33.2” Penetration .55 Diameter
4 SPF = 120 Shots
Collar Locator = 3503’7”
Shot @ 3:21 pm
Successful Shooting**

No. 2 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3474’ – 3506’
3 1/8” Expendable Gun = 33.2 Penetration .55 Diameter on shot hole
4 SPF = 120 Shots
Collar Locator 3503’7”
Shot @ 3:57 pm
Successful Shooting**

No. 3 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3448’ – 3474’
3 1/8” Expendable Gun = 33.2 Penetration .55 Diameter on shop hole
4 SPF = 96 shots
Collar Locator = 3445’7”
Shot @ 4:29 pm
Successful Shooting**

Wednesday
September, 13, 2022

55°F – Very Smokey – Wind from NW @ 9 mph
Began operations @ 8:00 am. Moved in and
rigged up Liquid Gold Well Service Pump Truck
and Acid Transport. Pressured backside to
600#/s. Held OK. Began acid job @ 10:00 am.
Acidized well with 1000 gallons of 28% Hcl Acid
as follows:

Total Acid = 23.8 bbls Total displacement = 15.5
bbls. Load acid in tubing. Acid on perforation
with 13.5 bbls pumping @ 400#/s. Acid job as
follows:

Pumped 2.0 bbls/min @ 900#/s
Pumped 2.0 bbls.min @ 1000#/s
Pumped 23.8 bbls of acid and start displacement
Pumped 2.0 bbls/min @ 900#/s pumped 13.5 bbls
of displacement

Pumping 3.0 bbls/min @ 1400#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1500#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1000#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1000#/s 5 bbls over
displacement

Pumped 35.0 bbls over displacement

ISI = 600#/s
1 minute shut in = 100#/s
2 minute shut in = vacuum

Job ended. Moved out Liquid Gold Equipment
Unseat 4 1/2" x 2 3/8" AD-1 Packer

1:00 pm – 59°F – Very Smokey
Tripped out 105 joints of 2 3/8" tubing. Remove
packer. Pickup rebuilt 4 1/2" x 2 3/8" AD-1
packer. Ran tubing as follows:

1 – 4 1/2" x 2 3/8" AD-1 Packer = 2.50'
1 – 2 3/8" Seating Nipple = 1.10'

105 joints 2 3/8", 4.7#/ft, J55, 8rd
ST&C tubing = 3391.58'

Total String = 3395.58'
KB = 3.0'

Tubing set @ 3398.58' KB

Rolled to casing with 50 bbls of corrosion inhabited water. Fluid clean. Landed 4 1/2" x 2 3/8" AD-1 Packer with 13,000#/s over string weight. Held OK. Ran MIT test on well as follows:

<u>Time</u>	<u>Pressure</u>	<u>Result</u>
2:24 pm	450#/s	Held OK
2:29 pm	450#/s	Held OK
2:34 pm	450#/s	Held OK

Passed MIT test. Rigged down and moved Fields #34-2. Shut down operations @ 3:00pm

Total Rig Hours: 7 hrs x \$260.00	=	\$1,820.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 1 hr x \$45.00/man	=	\$135.00
Fuel Surcharge: 10%	=	\$237.00
Environmental & Safety	=	\$50.00
Supervisor	=	\$350.00
Pump & Tank	=	\$550.00
4 1/2" Redress Packer	=	\$500.00
2" fill port part 3000#/s valve		
For acid job & pressure handline	=	\$540.00
4 1/2" x 2 3/8" AD-1 for acid job	=	\$250.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$4,442.00

Acid job 1000 gallons 28% Hcl

Acid Pump Truck	=	\$1,600.00
Bulk Acid Truck	=	\$750.00
Bulk Mileage	=	\$160.00
Bulk Acid 1000 gallons @		
3.25 x 1000	=	\$3,250.00
Additives	=	\$704.50
Environmental: \$75.00/day	=	\$75.00
1 Pickup	=	\$60.00
Fuel Surcharge: 10%	=	<u>\$301.00</u>
Total Costs	=	\$7,560.00

1 Day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs = \$12,812.00

Total Workover = \$77,979.25

**Engineering Completion
Report**

**Montalban Oil & Gas Operations Inc
MOGO/Jody Field 34-2
NENWSW – Section 34-T29N-R6W
(2310' FSL – 990' FWL)
Pondera County, Montana
API #25-073-21838**

Lone Man Coulee Field

**Altamont Oil & Gas Inc
Patrick M. Montalban
Petroleum Consultant
PO Box 488
Cut Bank, MT 59427**

Resume

Spud Date: August 7, 2008

Completion Date: August 18, 2008

Status: Madison Sun River Dolomite Injection Well

Elevation: 4033' GR 4038' KB

Total Depth: 3415' Driller 3451' Logger

Hole Size: 8 3/4" (0 – 668')
6 1/4" (668' – 3415')
3 7/8" (3415' – 3451')
New Open Hole

Casing Size: 7", 17#/ft, Ltd, ST&C, set @ 664.30' KB cemented w/260sacks Class G Cement
4 1/2", 10.5#/ft, API, J55, ST&C, Rge 3 set @ 3418' KB w/125 sacks Class G Cement.

Perforations: None

Bridge Plug: None

Open Hole: 3418' – 3499' KB

Tubing: 107 joints 2 3/8", 4.7 #/ft, API, J55, Rge set @ 3366.36

Seating Nipple: 3365.16 KB

Rods: None

Pump: None

Pumping Unit: None

Status: Injection Well

Daily Activity Summary

Wednesday
September 14, 2022

70°F – Partly Cloudy – Smokey – NW wind @ 10 mph.
Began operations @ 3:00 pm. Moved in and rigged up
Liquid Gold Well Service Rig No. 6. Unseat 4 1/2" x 2 3/8"
AD-1 packer. Trip 107 joints of 2 3/8", 4.7#/ft, J55, API
out of hole. Strapped out of the hole. 4 1/2" x 2 3/8" AD-1
packer looked good. Shut down operations @ 7:00 pm

Total Rig Hours: 4hrs x \$260.00 = \$1,040.00
Pickup Travel: 1 hr x 1 hr x \$45.00/man \$135.00

Environmental = \$50.00
Fuel Surcharge: 10% = \$104.00

Total Costs = \$1,279.00

Thursday
September 15, 2022

60°F – Smokey – Partly Cloudy – Very little wind
Began operations @ 8:00 am. Moved in circulating tank
and power swivel. Haul H2O into location to fill tanks
and clean well out to total depth: 3451'. Ran 109 – 2 3/8",
4.7#/ft, J55, 8rd with 3 7/8" bit to clean out well to total
depth 3451'. Tubing as follows:

1 – 3 7/8" bit = 2.50'
1 – 2 3/8" seating nipple = 1.10'
109 – 2 3/8", 4.7#/ft, J55 8rd
ST&C = 3417.30'

Total String = 3420.90'
KB = 3.0 = 3.0'
3423.90'

Out 

1 – 3 7/8" bit = 2.50'
1 – 3 7/8" x 2 3/8" change over = 1.10'

109 – 2 3/8", 4.7#/ft, J55, 8rd
ST&C = 3417.30'

Total String = 3420.90'
KB = 3.00'
3423.90' KB

In 

Finish hauling equipment and H2O into circulating tanks.
Need to clean out 27' out of open hole.

Thursday
September 15, 2022

64°F – Smokey – Slight rain @ 3:00 pm.
Tagged tubing @ 3424' KB. Cleaned out 3 7/8" hole from
3424' to 3451'. Hard drilling. Could be drilling on float
collar from 4 1/2" casing. Total depth by operator 3451'
KB. Shut down operations @ 6:00 pm.

Total Rig Hours: 10 hrs x \$260.00	=	\$2,600.00
Daily Pickup: 2 trucks x \$60.00	=	\$170.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$370.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$550.00
Power Swivel	=	\$550.00
Bit Sub	=	\$50.00
3 7/8" Bit	=	\$200.00
Trailer Rental	=	\$100.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$5,235.00

Other Costs

Winch Truck: \$165.00/hr 5 x \$165.00		\$825.00
Tanker: 2 hrs x \$165.00/hr	=	\$330.00
Vacuum Truck: \$145.00/hr x 2 hrs	=	\$290.00
Environment Safety	=	\$75.00
Fuel Surcharge	=	<u>\$144.00</u>
		\$1,664.50

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs	=	\$7,709.50
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Friday
September 16, 2022

55°F – Little Smokey – Little wind – Slight rain
Began operations @ 8:00 am. Circulate & clean out well bore. Continue to torque up 3451'. Lose approximately 5 - 6 bbls of H2O overnight and while cleaning well bore. Drill on float collar on bottom & finish cleaning well bore. Trip out 109 – 2 3/8", 4.7#/ft, J55, 8rd joints of tubing with 3 7/8" bit. Remove bit and change over and trip in hole with 107 – 2 3/8", 4.7#/ft, J55, 8rd joints of tubing with 4 1/2" x 2 3/8" AD-1 packer. Shut down operations @ 3:30 pm.

Total Rig Hours: 7 1/2hrs x \$260.00 =	\$1,950.00
Daily Pickup: 2 trucks = 2hrs x \$60.00	\$120.00
Pickup Travel: 2hrs x \$45.00/man =	\$270.00
Fuel Surcharge: 10%	= \$305.00
Environmental & Safety	= \$50.00
Supervisor & Tool Pusher	= \$350.00
Pump and Tank	= \$550.00
Power Swivel	= \$550.00
Change Over for Bit	= \$50.00
Wellhead Rubber	= \$300.00
Trailer	= \$100.00
Pipe Dope	= <u>\$25.00</u>
Total Daily Costs	= \$4,620.00
1 day consulting: \$1500/2	= \$750.00
Mileage: 60 miles x \$1.00	= <u>\$60.00</u>
	\$810.00
Total Costs	= \$5,430.00

Monday
September 19, 2022

60°F – Partly Cloudy
Began operations @ 8:00 am. Well on a vacuum. Set 4 1/2" x 2 3/8" AD-1 packer with 15,000#/s over string weight. Tubing string as follows:

1 – 4 1/2" x 2 /38" AD-1 Packer	=	2.50'
1 – 2 3/8" Seating Nipple	=	1.10'
107 joints 2 3/8", 4.7#/ft, J55 8rd, ST&C	=	3366.36'
Total String	=	3369.96
KB	=	<u>3.00'</u>

Packer set @ = 3372.96' KB

Pressure tested and pressure up backside to 500#/s. Held OK. Acidized well with 100 gallons 28 Hcl. Acid job as follows:

Acid Job = 1000 gallons 28% Hcl

Pumped 1.0 bbls acid @ 1.5 bbl/min @ 500#/s
Pumped 2.3 bbls acid @ 1.5 bbl/min @ 750#/s
Pumped 10 bbls acid @ 1.5 bbl/min @ 1000#/s
Pumped 10 bbls acid @ 1.5 bbl/min @ 1000#/s
Total 23.8 bbls acid

Pumped 5.0 bbls of water after acid job. Shut down for 5 minutes and pressure dropped form 1000#/s to 500#/s.

Over-Displaced Acid job with 35 bbls as follows:

Pumping @ 3.0 bbls/min @ 1250#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1500#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1750#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1850#/s 5 bbls displaced

Total 35.0 bbls displaced

Instant Shut in = 1500#/s
5 min shut in = 1100#/s
10 min shut in = 900#/s
15 min shut in = 800#/s

Well flowed back 11.0 bbls after acid job. Tripped in with 3 7/8" bit and sub and tagged on the 100th joint. Tubing string as follows:

1 - 3 7/8" Bit = 2.50'
1 - 3 7/8" x 2 3/8" changeover sub = 1.10'

110 joints of 2 3/8" x 4.7#/ft, J55
8rd, ST&C Tubing = 3460.70'
3464.30'
3' KB = 3.00'
Total String = 3467.30' KB

Drilled down on the 110th joint. Drilled fairly easy with a few tight spots. Shut down operations @ 6:00 pm

Total Rig Hours: 10hrs x \$260.00	=	\$2,600.00
2 Trucks: 2 x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$370.00
Environmental & Safety	=	\$50.00
Supervisor & Tool Pusher	=	\$350.00
New 3 7/8" Bit	=	\$1,400.00
Pump and Circulating Tank	=	\$550.00
Power Swivel	=	\$550.00
Trailer	=	\$100.00
Tubing Wiper Rubber	=	\$25.00
Bit Changeover 3 7/8" x 2 3/8"	=	\$50.00
Pipe Dope	=	\$25.00
1 – 4 1/2" AD-1 Packer (Acid Job)	=	<u>\$250.00</u>
		\$6,710.00

1000 gallon 28% Hcl Acid Job

1 – Acid Pump Truck	=	\$1,600.00
1 – Bulk Acid Truck	=	\$750.00
Bulk Mileage: 4.00/mile	=	\$160.00
1000 gallons 28% Acid \$3.25/gallon	=	\$3,250.00
Additives	=	\$549.50
Fuel Surcharge: 10%	=	\$301.00
Environmental	=	\$75.00
2 Travel \$45.00/man	=	<u>\$90.00</u>
		\$7,164.50

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily = \$14,684.50

**Tuesday
September 20, 2022**

**49°F – Partly Cloudy – Wind from N to NW.
Began operations @ 8:00 am. Picked up 111 joint and
drilling. Tubing string as follows:**

1 – 3 7/8" Bit	=	2.50'
1 – 3 7/8" x 2 3/8" change over	=	1.10'
111 joints 2 3/8" x 4.7#/ft		
J55, 8rd, ST&C Rge 3	=	3492.28'
Total String	=	3495.88'
3.0 KB	=	<u>3.00'</u>
		3498.88' KB

Drilled to total depth 3498.88 KB. Drilling fairly well.
 Drilling slows down after a break. Have not lost volume.
 Drilled to total depth 3499' KB Shut down operations @
 5:30 pm

Total Rig Hours: 9 ½ hrs x \$260.00=	=	\$2,410.00
Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/hr/man	=	\$270.00
Fuel Surcharge: 10%	=	\$357.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$350.00
Power Swivel	=	\$550.00
Trailer	=	\$100.00
BA Sub and Cross Over	=	\$50.00
Pipe Dope	=	<u>\$25.00</u>
		\$4,892.00
Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total Costs	=	\$5,702.00

Wednesday
 September 21, 2022

32°F – Sunny – No Wind
 Began operations @ 8:00 am. Circulated and clean open hole to 3499' KB by operator. Circulated hole 30 minutes to clean to total depth. Tripped 3 7/8" bit and tubing out of hole. Tripped in 4 ½" x 2 3/8" AD-1 packer for acid job. Tubing string as follows:

1 – 4 ½" x 2 3/8" AD-1 Packer	=	2.50'
1 – Seating Nipple	=	1.10'
107 joints 2 3/8", 4.7#/ft, J55, 8rd Tubing	=	3366.36'
Total String	=	3369.96'
KB	=	<u>3.00'</u>
		3372.96 KB

Circulated corrosion inhibitor on the backside. Set 4 ½" x 2 3/8" AD-1 packer set @ 3372.96 KB with 15,000 #/s over string weight. Pressure up backside to 500#/s. Held OK. Need to repair pump truck. Shut down operations @ 5:00 pm.

Total Rig Hours: 9 hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60/truck	=	\$120.00

Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$289.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$550.00
Power Swivel	=	\$200.00
Redress 4 ½" AD Packer	=	\$500.00
Bit Crossover Sub	=	\$50.00
Dope	=	\$25.00
Trailer	=	<u>\$100.00</u>
Total Daily Costs	=	\$4,844.00

Other Costs		
1 Pump Truck	=	\$750.00
Vacuum Truck: 2 hrs x \$145/hr	=	\$290.00
Environmental: \$75.00/day	=	\$75.00
Fuel Surcharge: 10%	=	<u>\$104.00</u>
Total Costs	=	\$1,219.00

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
Total Costs	=	\$810.00

Total Daily Costs = \$6,873.00

Thursday
September 22, 2022

46°F – Cloudy – Slight Rain – Wind from SW
Began operations @ 10:00 am. Moved in and rigged up
Liquid Gold Well Service Acid Bulk Truck and Pump
Truck. Acidized well with 1000 gallons 28% Hcl.
Acid job as follows:

1000 gallons 28% Hcl Acid
23.8 bbls of Acid
13.55 bbls of tubing volume

Began job @ 10:52 am:

Pumped 28.0 bbls of acid from 300#/s to 800#/s @ 1.5
bbls/minute
Finished pumping acid @ 800#/s @ 1.5 bbls/minute
Shut down and pressure dropped to 500#/s

Displaced 48.0 bbls as follows

Pumped 13.5 bbls 110#/s @ 1.6 bbls/minute
Over-displaced by 35bbls as follows

Pumped 5.0 bbls @ 1600#/s @ 3 bbls/minute
Pumped 10.0 bbls @ 1650#/s @ 3 bbls/minute
Pumped 10.00 bbls @ 1700#/s @ 3 bbls/minute
Pumped 10.0 bbls @ 1700#/s @ 3 bbls/minute

Pumped 48.5 bbls displacement

Instant shut in	=	1100#/s
5 min shut in	=	650#/s
10 min shut in	=	350#/s
15 min shut in	=	200#/s

Well in a vacuum. Rigged down Liquid Gold Well Service. Ran MIT test for state @ 3:00 pm. Pressured up backside to 345#/s. Slow leak. Moved packer and pulled 15,000#/s over packer. Pressure tested to 350#/s. Failed test. Pulled tubing and packer to repair leak. Shut down operations @ 5:30 pm

Total Rig Hours: 7 ½ hrs x \$260.00	=	\$1,950.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$250.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$500.00
Tailer	=	<u>\$100.00</u>
Total Costs	=	\$3,640.00

Acid Job

1 Pump Truck	=	\$1,600.00
Bulk Acid Truck	=	\$750.00
Bulk Mileage: 4.05/miles	=	\$160.00
1000 Bulk Acid: 3.25/gallon	=	\$3250.00
Additions	=	\$684.50
Fuel Surcharge: 10%	=	\$280.50
2 Vacuum Trucks: \$145.00/load	=	\$290.00
Environmental & Safety	=	<u>\$75.00</u>
Total Costs	=	\$7,254.50

MI Test

Tanker Truck: 2 ½ hrs x \$165.00	=	\$412.50
Vacuum Truck: 2 ½ hrs x \$145.00	=	\$290.00
Pickup: 1 truck x \$60.00	=	\$60.00
Travel: 1 hr x \$45.00/man	=	\$90.00
Fuel Surcharge: 10%	=	<u>\$70.00</u>
Total Costs	=	\$922.50

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
Total Costs	=	\$810.00

Total Costs = \$12,627.00

**Friday
September 23, 2022**

**55°F – Clear – Slight wind from the East
Began operations @ 8:00 am. Tripped 2 3/8", 4.7#/ft, J55, 8rd, with 4 1/2" scraper to 3373' KB. Added 10' tubing sub and cleaned to 3383 KB. Dropped standing valve and pressured tubing to 500#/s. Slow leak. Pressure testing tubing to 1000#/s. Could not find hole. Ran 45 joints, ran 24 joints and ran 12 joints would hold 1000#/s and slowly leak off. Ran 2 more joints would not hold. Ran 83 joints into hole. Shut down operation for night. Did not find tubing leak. Shut down operations @ 4:00 pm.**

Total Rig Hours: 8 hrs x \$260.00	=	\$2080.00
Daily Pickup: 2 hrs @ \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$208.00
Environmental and Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Redress 4 1/2" AD-1	=	\$500.00
4 1/2" Scraper	=	\$150.00
3 7/8" Bit on Scraper	=	\$200.00
Trailer	=	\$100.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$4,053.00

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Costs \$4,863.00

**Tuesday
September 27, 2022**

**82°F – Clear – Wind from South 8 -10 mph
Tripping in hole and pressuring tubing to find leak. Pressured to 2000#/s and Held OK. Added 2 joints and pressured to 2000#/s. Slow leak. Found leak on the 100th joint. Very small leak. Could not find without pressure on tubing. Tripped 2 3/8" x 4.7#/ft, J55 with 4'6" packer. Fished standing valve with sand line. Tubing string as follows. Replace 110 joint was 31.70' with a new joint of 31.60'.**

1 – 4 1/2" AD-1 Packer	=	2.50'
1 – 2 3/8" Seating Nipple	=	1.10'

107 joints 2 3/8", 4.7#/ft, J55 8rd tubing	=	3366.26'
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Total String = 3369.86 Gr

$$3.0' \text{ KB} = \frac{3.0'}{3372.86 \text{ KB}}$$

Filled the backside with produced H2O. Ran MIT on well as follows

MIT Test
Began @ 4:32 pm

<u>Time</u>	<u>Pressure</u>	<u>Time Sch</u>
4:32 pm	360#/s	0
4:37 pm	360#/s	4:37 5 minutes
4:42 pm	360#/s	4:42 10 minutes
4:47 pm	360#/s	4:47 15 minutes

MIT Passed

Tuesday
September 27, 2022

83°F – Sunny – 5 -10 mph from SW
Passed MIT test. Shut down operations @ 5:00 pm

Total Rig Hours: 9hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$249.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Water Truck: 2 hrs x \$75.00	=	\$150.00
Pipe Dope	=	\$25.00
Redress 4 ½” AD-1 (new rubber, shewing and labor)	=	<u>\$200.00</u>
Total Costs	=	\$3,704.50

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Cost = \$4,514.50

Wednesday
September 28, 2022

56°F – Sunny – Slight wind @ 5-10 mph from S
Began operations @ 8:00 am. Circulating hole with fresh water and corrosion inhibitor. Set 4 ½” x 2 3/8” AD-1 with 12,000#/s over string weight. Test MIT and lost a few pounds. Pulled 22,000#/s over string weight. Ran MIT test for State Inspector Gary Klotz

<u>Time</u>	<u>Pressure</u>	<u>Elapsed Time</u>
9:56 am	378#/s	0
10:01 am	375#/s	5 min
10:06 am	375#/s	10 min

10:11 am 375#/s 15 min

Passed MIT @ 10:11 am. Passed by State of MT
Inspector Gary Klotz. Rigged down Liquid Gold Well
Service. Moved rig to yard. Shut down operations @
11:00 am

Total Rig Hours: 3 hrs x \$260.00	=	\$780.00
Daily Pickup: 2 hrs x \$60.00	=	\$120.00
Rig Travel: 3 ½ hrs x \$45.00/man	=	\$785.00
Fuel Surcharge: 10%	=	\$158.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Water Truck: 2 hrs x \$75.00	=	<u>\$150.00</u>
Total Costs	=	\$393.00

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Costs	=	\$3,203.00
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Total Workover Costs	=	\$66,885.00
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CHECK SHEET

Date: 4/21/2008 API Number: 073-21830
Company: ~~AltaMont Oil & Gas Inc.~~ Mountain View Energy Inc.
Well Name: Jody Field 34-1
County: Pondera
Field: Wildcat Pondera Loneman Conlee
Surf. Location: 330 FSL 2310 FWL SE SW Lot: Sec: 34 Twp: 29 N Rng: 6 W

Permit Number: 26562 Drilling Fee:

Intention to Drill: 4/21/2008 Expiration Date: 10/21/2008

Mineral Ownership: Private State Federal Indian

Well Type: Vertical Multiple Laterals

Proposed Depth/Formation: MD: 3450 TVD: Sun River Dolomite

Drilling Unit Acres Description:

Samples Required: Received:

COMPLETION INFORMATION

Completion Date: MAY 6, 2008 TD: 3543 PBTD: N/A

Completed As: Oil Well IP / Formation: Madison

Geological Well Report: Mud Log:

Sundry Notices: Chg. of Opr. 8-17-10

Intent - Add Madison 6-6-11

Subsequent Report of Abandonment: Received: Approved:

Electric Logs: PE CN. TSD / PE AS. GR / PE CN. Lithodensity. AI / 1.7.09
GR. CBL 7.22.09

Miscellaneous:

CHANGE OF OPERATOR RECORD

JODY FIELD 34-1
29N, 6W, Sec. 34: SESW
API #073-21830

TO: Mountain View Energy, Inc.
FROM: Altamont Oil & Gas, Inc.
DATE: August 17, 2010

RECEIVED

Form No. 4 R 4-85

FEB - 5 2009

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

(SUBMIT IN TRIPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

MONTANA BOARD OF OIL
& GAS OWNERS. BILLINGS

LOCATE WELL CORRECTLY

		34	

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease JODY FIELD Well No. #34-1

Address PO BOX 488 - CUT BANK MT 59427 Field (or Area) WIDL CAT

The well is located 330 ft. from (S) line and 2310 ft. from (W) line of Sec. 34

Sec. 34; T. 29N; R. 6W; County PONDERA; Elevation 4071' GL
(D.F., R.B. or G.L.)

Commenced drilling APRIL 30, 2008; Completed MAY 6, 2008

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL Signed PATRICK M. MONTALBAN
(oil well, gas well, dry hole)

API# 25-073 - 21830 Title PRESIDENT & CEO

Date DECEMBER 31, 2008

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>3428'</u> to <u>3432'</u> Water	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	674.94'	0	674.94'	175 Sacks	Class G Cement
4-1/2"	10.5#/ft	J55	ST&C	3539.71'	674.94'	3535.71'	100 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations

COMPLETION RECORD

Rotary tools were used from 0 to 3540' 3543
Cable tools were used from _____ to _____
Total depth 3540 ft.; Plugged back to _____ T.D.; Open hole from _____ to _____
3543

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3428'	3432'	3-1/8" HSD - 17 Shots				
3440'	3442'	3-1/8" HSD - 9 Shots				
3442'	3446'	3-1/8" HSD - 17 Shots				

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from MADISON (pool) formation.
Swab tested 2 to 3 percent oil cut
I.P. _____ barrels of oil per _____ hours (pumping or flowing)
Mcf of gas per _____ hours.
_____ barrels of water per _____ hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
	NONE							

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
Platform Express		
Compensated Neutron	675'	3535'
Three Detector		
Density	675'	3535'

FORMATION RECORD
 (ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

RECEIVED

JAN -7 2009

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Electric Log Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1780	+2296
Blackleaf Bentonite Marker	1820	+2256
Blackleaf Sandstone	1826	+2250
Base Fish Scales	--	--
1 st Bow Island	1878	+2198
2 nd Bow Island	2030	+2046
3 rd Bow Island	2132	+1944
4 th Bow Island "A"	2376	+1700
4 th Bow Island "B"	2423	+1653
Dakota	2544	+1532
Kootenai	2586	+1490
Sunburst	3081	+995
<u>Jurassic</u>		
Morrison	3152	+924
Swift	3186	+890
Swift Shale	3274	+802
Rierdon(Ellis Shale)	3327	+749
Sawtooth	3404	+672
<u>Mississippian</u>		
Madison(Sun River Dolomite)	3428	+648
<u>Total Depth:</u>	3543	+533

FORM NO. 22 R7/99

SUBMIT IN QUADRUPLICATE TO:

ARM 36.22.307
ARM 36.22.601**MONTANA BOARD OF OIL AND GAS CONSERVATION**
2535 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102Lease Name:
JODY FIELD #34-1Lease Type (Private/State/Federal):
PRIVATE

Well Number:

34-1

Unit Agreement Name:

Field Name or Wildcat:
WILDCAT

Objective Formation(s):

BOW ISLAND, SUNBURST & MADISON

Section, Township, and Range:

SECTION 34-T29N, R6W

County:

PONDERA

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONSERVATION, BILLINGS**Application for Permit**To: Drill Deepen Re-enter
Oil Gas Other

Operator: ALTAMONT OIL & GAS, INC

Address PO BOX 488

City CUT BANK State MT ZIP 59427

Telephone Number (406) 873-9000

Surface Location of Well (quarter-quarter section and footage measurements)

SESW-SECTION 34-T29N-R6W
(330' FSL x 2310' FWL)

(If directionally drilled, show both surface and bottom hole locations above)

Proposed total depth 3,450'	Formation at total depth MADISON/SUN RIVER	Elevation (indicate GL or KB) 4071' GL
Size and description of drilling/spacing unit 40 ACRES (SESW)	API number of another well on this lease (if any)	Anticipated spud date

Hole size	Casing size	Weight/foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
8-3/4"	7"	17#/ft	J55	650'	245 sx	Class G
6-1/4"	4-1/2"	9.5#/ft	J55	3,450'	100 sx	Class G

Describe Proposed Operations:

Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.

Altamont Oil & Gas, Inc proposes to drill this well to test for oil and or gas in the Bow Island, Sunburst & Madison formations. No DST's or cores are planned. Surface casing will be cemented from surface to approximately 650' ensuring good returns to surface. The well will be drilled with air and drilling mud from casing point to TD. Open hole logs will be run from surface to TD. Production zones will be perforated & tested. Blowout equipment will be as indicated on the attached exhibit and will be tested at regular intervals.

BOARD USE ONLY

Approved (date) APR 21 2008 Permit Fee \$2500 / \$5000
By Steve P. [Signature] Check Number 10003 / 11160
Title CHIEF FIELD INSPECTOR Permit Expires OCT 21 2008
Permit Number 26562

The undersigned hereby certifies that the information contained on this application is true and correct:

Signed (Agent) [Signature]
Patrick M. MontalbanTitle President & CEODate 4/9/2008THIS PERMIT IS SUBJECT TO THE
CONDITIONS OF APPROVAL
STATED ON THE BACKAPI Number 25- 073 - 21830

Samples Required: NONE ALL FROM _____ feet to _____ feet
Core chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:
Montana Board of Oil and Gas Conservation
2525 St. Johns Avenue
Billings, MT 59102

SUPPLEMENTAL INFORMATION

Note: Additional information or attachments may be required by Rule or by special request.

- X 1. Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
- X 2. Attach an 8½ x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a ½ mile radius of the well.
- X 3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut /fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor.) Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications. N/A
5. Describe the proposed plan for the treatment and/or disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
N/A
6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:
- No additional permits needed
 - Stream crossing permit (apply through county conservation district)
 - Air quality permit (apply through Montana Department of Environmental Quality)
 - Water discharge permit (apply through Montana Department of Environmental Quality)
 - Water use permit (apply through Montana Department of Natural Resources and Conservation)
 - Solid waste disposal permit (apply through Montana Department of Environmental Quality)
 - State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
 - Federal drilling permit (specify agency)
 - Other federal, state, county, or local permit or authorization: (specify type) _____

NOTICES:

1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

WARNING: Failure to comply with conditions of approval may void this permit.

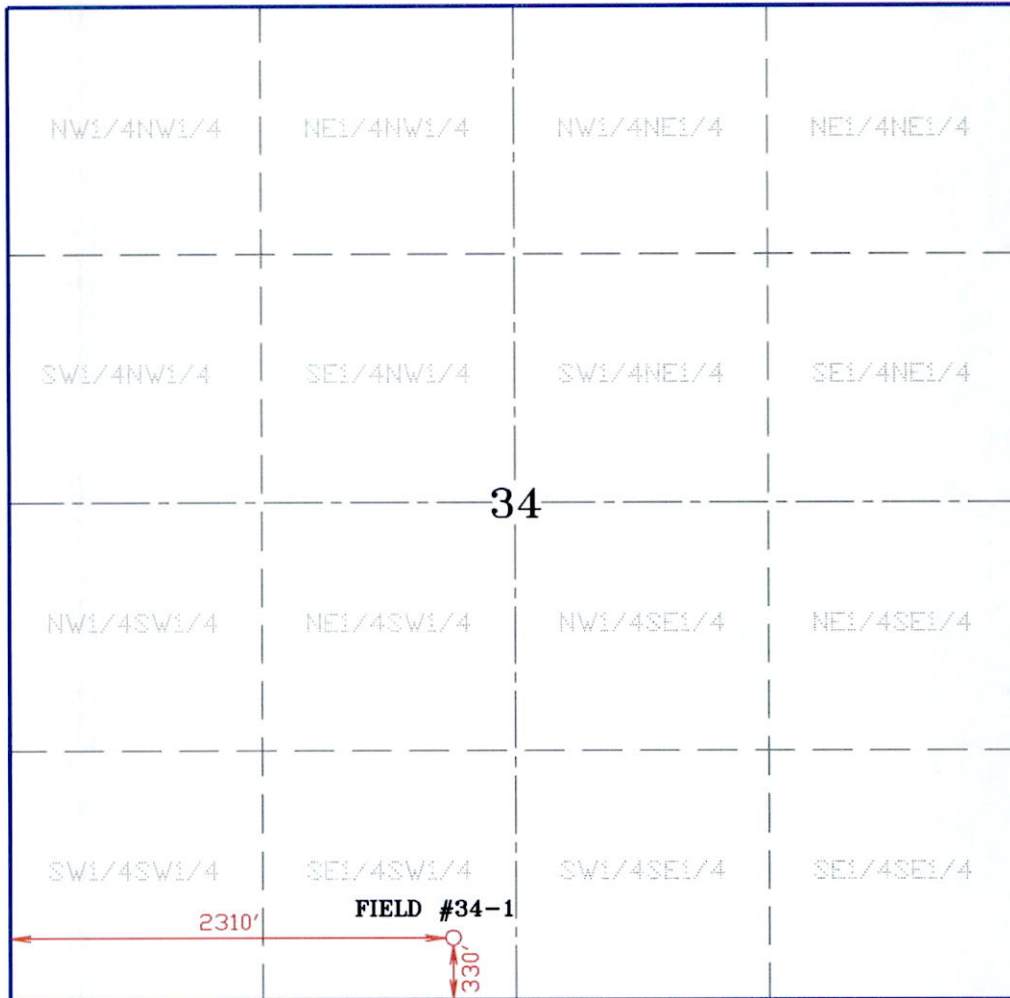
RECEIVED

WELL LOCATION

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA
330' FSL X 2310' FWL
ELEVATION BEFORE GRADING: 4071'

APR 14 2008

MONTANA BOARD OF OIL
& GAS COMB. BILLINGS



T29N R6W

ELEVATION BEFORE GRADING: 4071'
BASIS - NAVD 29

GEOGRAPHIC COORDINATES:
48°13'21.9" N 112°22'16.1" W (NAD 83 BASIS)

BASE POSITION FOR GEOGRAPHIC COORDINATES:
48°12'38.97587" N 112°22'44.76679" W (NAD 83 BASIS)
(NGS CONTROL POINT CONE, THIRD ORDER)

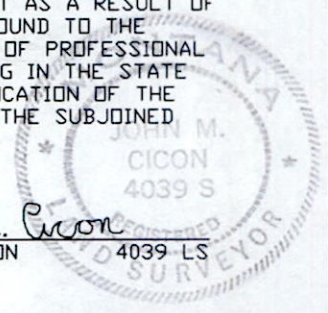
LAND USE: CULTIVATION (CRP)

NO ATTEMPT HAS BEEN MADE BY THE SURVEYOR TO LOCATE UNDERGROUND STRUCTURES OR BURIED UTILITIES, AND APPROPRIATE AGENCIES AND SURFACE LANDOWNERS MUST BE CONTACTED FOR FIELD LOCATION OF ANY UNDERGROUND STRUCTURES OR BURIED UTILITIES BEFORE ANY CONSTRUCTION COMMENCES. CALL 1-800-424-5555 BEFORE ANY CONSTRUCTION COMMENCES.

NOTE: SUBDIVISION LINES AND GOVERNMENT LOT BOUNDARIES ARE SHOWN FOR DEPICTIVE PURPOSES ONLY AND SHOULD NOT BE USED FOR SCALING OR LOCATION PURPOSES.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION AND BELIEF, I CERTIFY THAT AS A RESULT OF A SURVEY MADE ON THE GROUND TO THE NORMAL STANDARD OF CARE OF PROFESSIONAL LAND SURVEYORS PRACTICING IN THE STATE OF MONTANA, I FIND THE LOCATION OF THE FIELD #34-1 AS SHOWN ON THE SUBJOINED DRAWING.

John M. Cicon
JOHN M. CICON 4039-LS




REQUESTED BY: ALTAMONT OIL & GAS, INC.
P.O. BOX 488
CUT BANK, MONTANA 59427

SCALE 1"=1000'

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.

02-21-08

 CICON AND ASSOCIATES
BOX 541
CHESTER, MONTANA 59522

JOB NO. 08-010

DRAWING NO. 08010ALTASIG.DWG

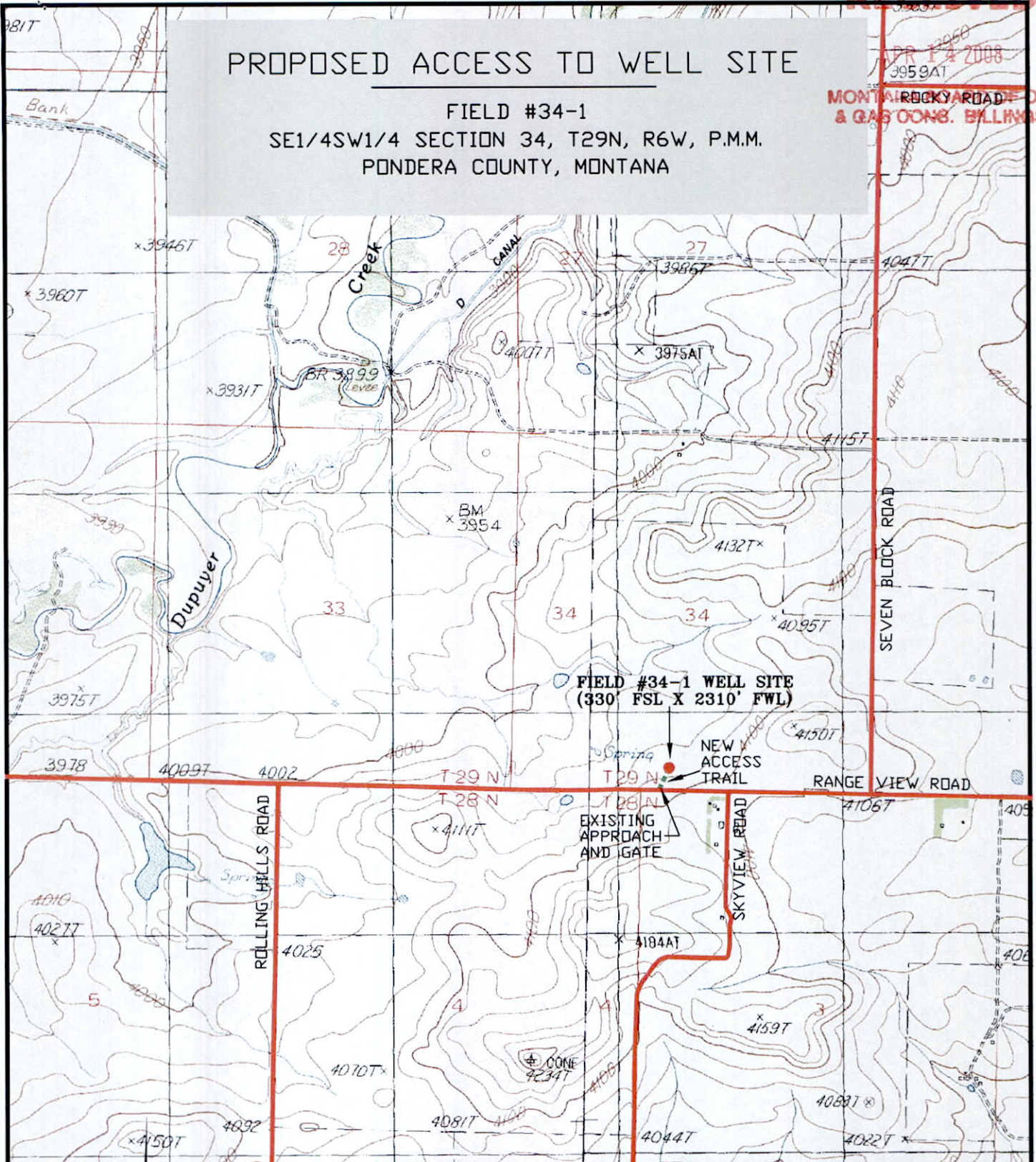
SHEET 1 OF 3

RECEIVED

PROPOSED ACCESS TO WELL SITE

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA

APR 14 2008
MONTANA ROCKY MOUNTAIN OIL & GAS CONS. BILLINGS



FIELD #34-1 WELL SITE
(330' FSL X 2310' FWL)

NEW ACCESS TRAIL


EXISTING APPROACH AND GATE

REQUESTED BY: ALTAMONT OIL & GAS, INC.
P.O. BOX 488
CUT BANK, MONTANA 59427

SCALE 1"=2000'

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.

02-21-08

 CICON AND ASSOCIATES
BOX 541
CHESTER, MONTANA 59522

JOB NO. 08-010

SCALE 1" = 2000'

DRAWING NO. 08010TDPD.DWG

PAGE 3 OF 3

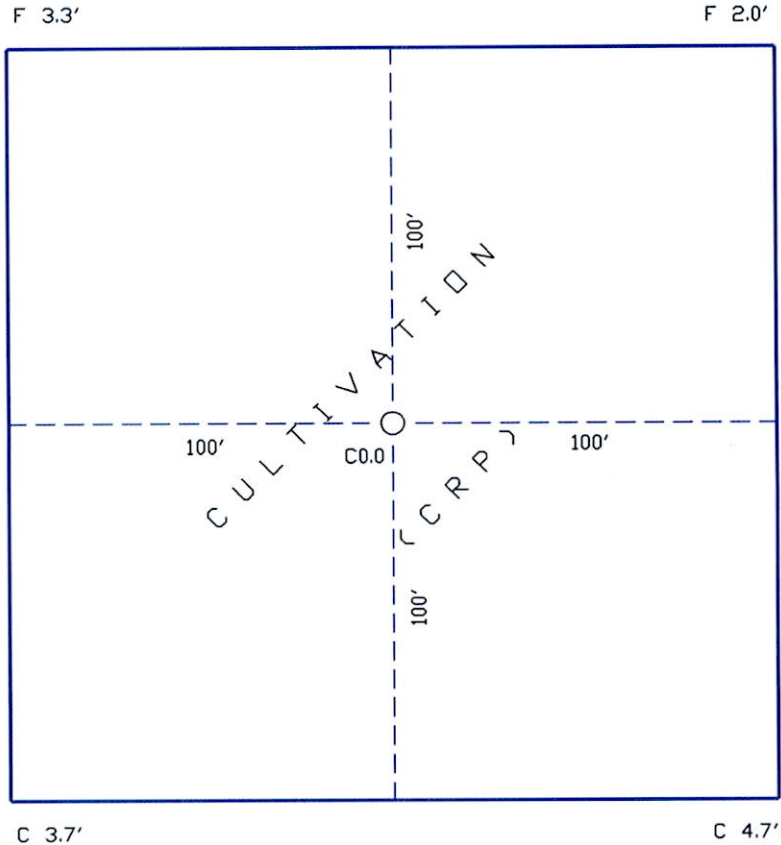
RIG PAD SITE

FIELD #34-1
 SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
 PONDERA COUNTY, MONTANA

RECEIVED

APR 14 2008

**MONTANA BOARD OF OIL
 & GAS COMB. BILLINGS**

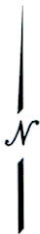


GENERAL CUTS AND FILLS OF PROPOSED RIG PAD


LAND USE: CULTIVATION (CRP)

ELEVATION OF LOCATION BEFORE GRADING: 4071'
 BASIS OF ELEVATIONS: NAVD 29

NOTE:
 CUTS AND FILLS NOTED ARE FOR PURPOSES OF DESCRIBING
 THE GENERAL TOPOGRAPHY OF THE PROPOSED RIG PAD AND
 ARE NOT INTENDED FOR CALCULATION OF DIRTWORK QUANTITIES
 OR OTHER CALCULATIONS.



SCALE 1" = 50'

REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=50'
FIELD #34-1 SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.	02-21-08
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 08-010
	SHEET 2 OF 3

DRAWING NO. 08010CDN.DWG

RECEIVED

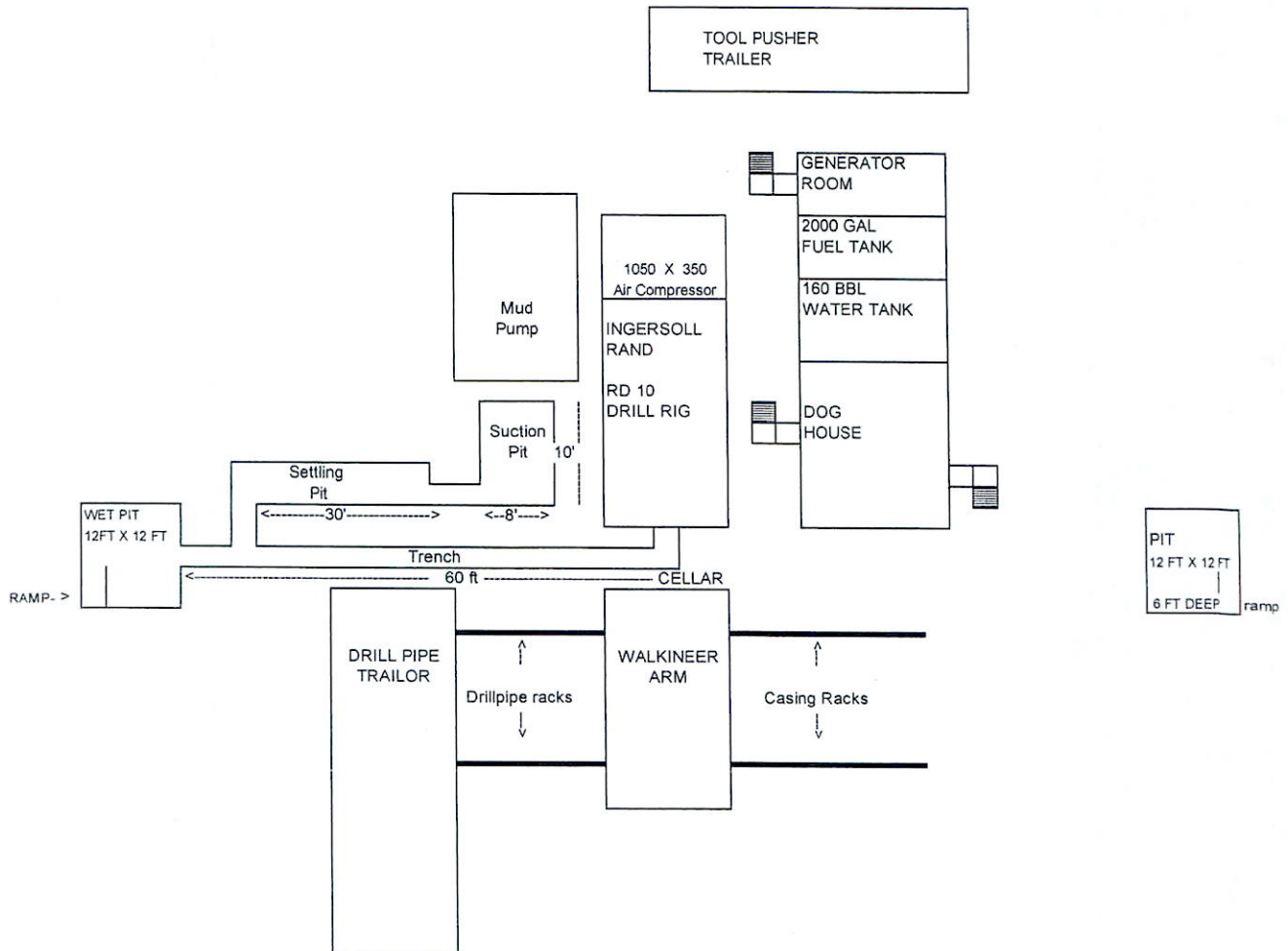
APR 14 2008

MONTANA BOARD OF OIL
& GAS CONGR. BILLINGS

LOCATION LAYOUT

Gasco Drilling LLC

P.O. Box 963 Shelby, Mt 59474 Phone (406) 434-3603 Fax (406) 434-3863



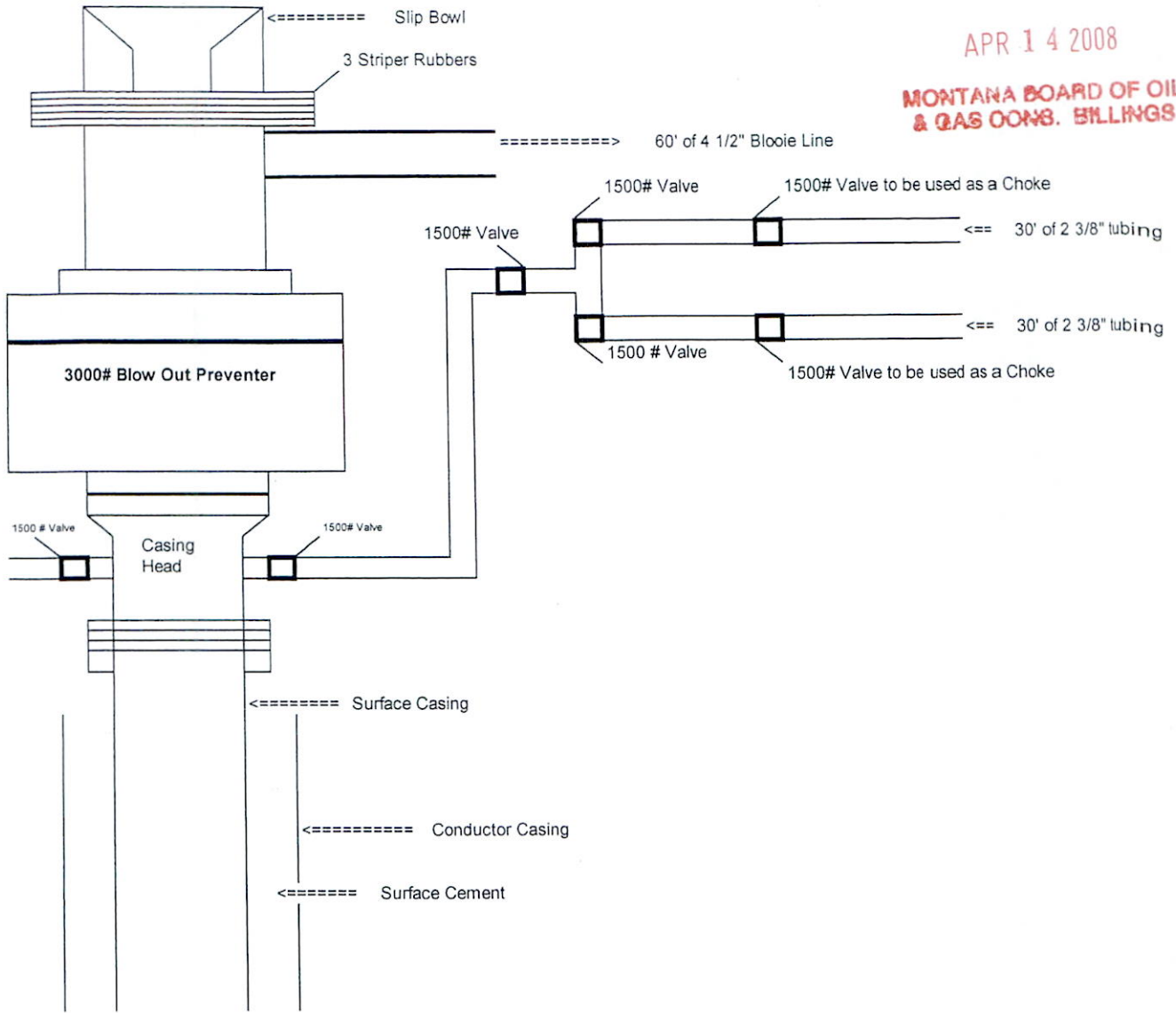
DIMENSIONS OF LOCATION: 200 X 200

SETTLING PIT IS 6' WIDE BY 45' LONG . SUCTION PIT 8' WIDE BY 10' LONG

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONS. BILLINGS



BOP STACK

RECEIVED

MAY 28 2004

ALTAMONT OIL & GAS, INC

RECEIVED

APR 14 2008

REGAN OFFSHORE INTERNATIONAL, INC.

Torrance, Calif.

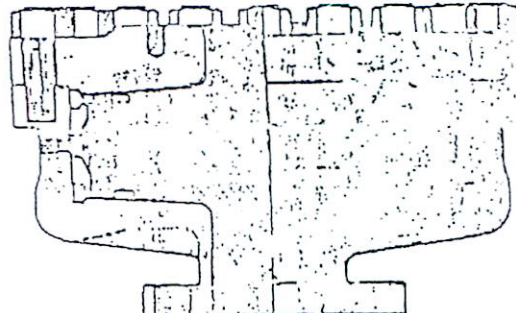
MONTANA BOARD OF OIL & GAS CONG. BILLINGS

REGAN BLOWOUT PREVENTERS

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 2000 PSI working pressure

DESIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
 - b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore. The packer will seal on open hole at full working pressure.
- The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



SPECIFICATIONS

Nominal Size	Test Pressure (PSI)	DIMENSIONS (IN.)			Weight (LBS.)	End Flanges (1)	O/RK (Inch Crawlers)	Stab Outlet
		Outside Diameter	Thru Bore	Overall Height				
6	1000	27 1/4	27 1/4	21 1/4	1300	Nom. B	61	None
8	1000	31 1/4	31 1/4	21 1/4	1550	Nom. B	61	2" L.P.
10	2000	35 1/4	35 1/4	21 1/4	2075	Nom. B	61	None
12	2000	39 1/4	39 1/4	21 1/4	2400	Nom. B	61	2" L.P.

(1) Outside Gauge Holes spaced 180 deg with center 2800 W. 2 L.P. and 2800-400 Center. 18150 can be used with 2800-400. 2800-400 L.P. (2) Test Pressure: minimum 1000 PSI for 2000 PSI API 53 design unless otherwise specified.

B.O.P. SPECIFICATIONS

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE
City CUT BANK	State MT	Zip Code 59427
Telephone 406-873-2235		Fax 406-873-2835
Well Number: 34-1		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE
Township, Range, and Section: SECTION 34-T29N-R6W		County: PONDERA
API Number: <u>25</u> <u>073</u> <u>21830</u> State County Well	Well Type (oil, gas, injection, other): OIL	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) <u>CONVERT TO INJECTION WELL</u>	<input checked="" type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

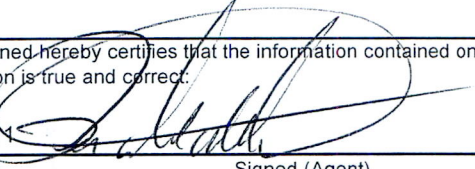
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

**SEE
STIPULATIONS
ON BACK**

BOARD USE ONLY	
Approved <u>AUG 11 2011</u>	Date
Original Signed By George Hudak, UIC Director	
Name	Title

The undersigned hereby certifies that the information contained on this application is true and correct.

6/21/2011 

Date Signed (Agent)

Patrick M. Montalban, President & CEO

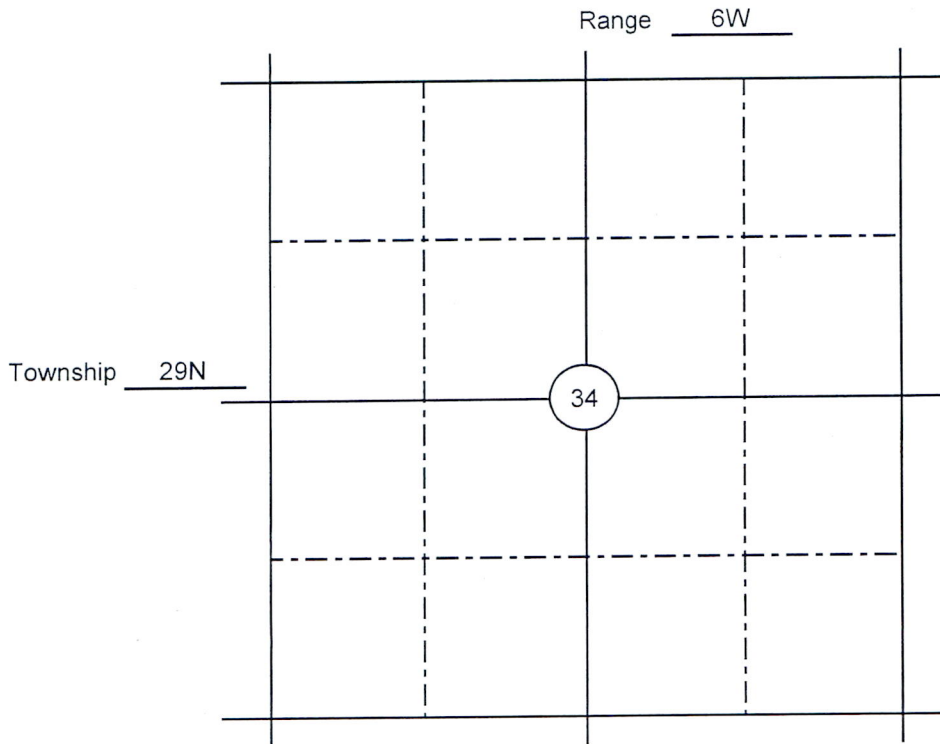
Print Name and Title

Telephone: (406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

- Injection well bond required before injecting.
- MIT required before injecting.
- Set packer 3328 ft. or deeper
- Injection pressure limited to 1,019 psig.
- An aquifer exemption must be approved by EPA before injecting. (sent to EPA 7-28-11).

Failure to comply with the conditions of approval may void this permit.

RECEIVED

JUN - 6 2011

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE
City CUT BANK	State MT	Zip Code 59427
Telephone 406-873-2235	Fax 406-873-2835	
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Well Number: 34-1
		Unit Agreement Name:
		Field Name or Wildcat: LONEMAN COULEE
		Township, Range, and Section: SECTION 34-T29N-R6W
API Number: 25 073 21830 State County Well	Well Type (oil, gas, injection, other): OIL	
		County: PONDERA

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input checked="" type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input checked="" type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Move in and rig up. Dig drill hole to swab test. Perforate from 3448'-3452' and swab test for 4 hours. Additional perforations:
3452'-3460'
3460'-3466'
3470'-3480'
3480'-3490'
3490'-3496'

Rig up Liquid Gold Well Service and acidize well with 1,000 gallons of 28% HCl.

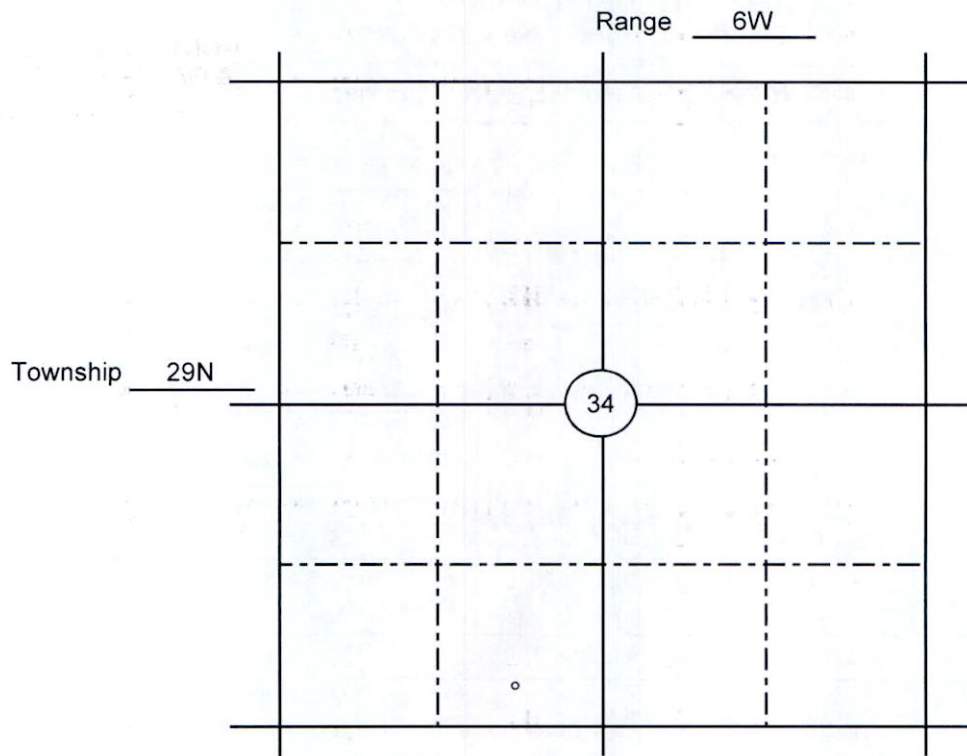
Run 4-1/2" packer and tubing in hole. Set packer at 3400'. Test packer to 1000 pounds. Hold for 1/2 hour.

BOARD USE ONLY	
Approved <u>JUN 06 2011</u> Date	
<u>Steve Swab</u> Name	CHIEF FIELD INSPECTOR Title

The undersigned hereby certifies that the information contained on this application is true and correct:	
5/23/2011 Date	 Signed (Agent)
Patrick M. Montalban, President & CEO Print Name and Title	
Telephone: _____	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.
Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

RECEIVED

MAY - 5 2008

MONTANA BOARD OF OIL
& GAS COMS. BILLINGS

SPUD INFORMATION

WELL NAME: Jody Field 34-1

API #: 25-073-21830

LOCATION: S 34 T29N 6W SE SW
(Twp-Rge-Sec: 1/4 1/4)

SPUD TIME: 11:30 Am Actual

DATE: 4-30-08

DRILLING COMPANY: Gasco

RIG #: # 7

CALLER'S NAME: Patrick Montalban

COMPANY NAME: Altamont Oil + Gas, Inc

OTHER: _____

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Altamont Oil & Gas, Inc.
Well Name/Number: Jody Field 34-1
Location: SE SW Section 34 T29N R6W
County: Pondera MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 4 to 5 days drilling time.

Unusually deep drilling (high horsepower rig): No, 3450' TD

Possible H₂S gas production: Yes

In/near Class I air quality area: No

Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

Air quality permit (AQB review)

Gas plants/pipelines available for sour gas

Special equipment/procedures requirements

Other: _____

Comments: No special concerns – using small rig to drill to 3450' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.

High water table: No

Surface drainage leads to live water: No, closest drainages are some unnamed ephemeral tributary drainages to Dupuyer Creek, about 3/8 of a mile to the west and 1/2 mile to the northwest from this location.

Water well contamination: No, closest water wells are about 3/4 of a mile to the north and south of this location and these wells are 207' and 90' in depth. Surface casing will be drilled with air and/or freshwater mud to 650' and steel surface casing set and cemented to surface from 650'. Small spring located on topographic map, about 1/8 of a mile to the northwest from this location.

Porous/permeable soils: No, sandy bentonitic soils.

Class I stream drainage: No

Mitigation:

Lined reserve pit

Adequate surface casing

Berms/dykes, re-routed drainage

Closed mud system

Off-site disposal of solids/liquids (in approved facility)

Other: _____

Comments: 650' of surface casing will be set and cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems or air to be used for drilling surface hole.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, no stream crossings.

High erosion potential: No, small cut, up to 4.7' and small fill, up to 3.3', required.

Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite: No, 200'X200' location size required.

Damage to improvements: No, surface use is cultivated field (CRP).

Conflict with existing land use/values: Slight

Mitigation

Avoid improvements (topographic tolerance)

Exception location requested

Stockpile topsoil

Stream Crossing Permit (other agency review)

Reclaim unused part of wellsite if productive

Special construction methods to enhance reclamation

Other _____

Comments: Access will be over existing county road, Barrett FLDS. A short road will be constructed, about 300' into this location. Drill cuttings will be buried in the unlined cuttings pit. Drilling fluids will be allowed to evaporate in the pits. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence buildings about 3/8 of a mile to the east of this location.

Possibility of H2S: Yes

Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time.

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: No concerns

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: Lake Frances about 7.5 miles to the northeast.

Creation of new access to wildlife habitat: None identified.

Conflict with game range/refuge management: None identified.

Threatened or endangered Species: None identified.

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: _____

Comments: Private surface lands. No concerns

Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites: None identified, private surface.

Mitigation

avoidance (topographic tolerance, location exception)

other agency review (SHPO, DSL, federal agencies)

Other: _____

Comments: Private surface. No concerns.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns.

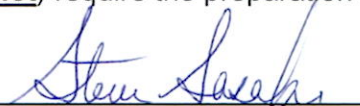
Remarks or Special Concerns for this site

Well is a 3450' Madison Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No, significant impacts expected, some short term impacts are expected, but should be able to mitigate these short term impacts.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki 

(title:) Chief Field Inspector

Date: April 15, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Pondera County water wells

(subject discussed)

April 15, 2008

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

AFFIDAVIT OF PUBLICATION
STATE OF MONTANA,
County of Lewis & Clark,

RECEIVED

APR - 9 2008

**MONTANA BOARD OF OIL
& GAS CONSERVATION. BILLINGS**

Beverly Allison

Being duly sworn, deposes and says:

That she is the principal clerk of the Independent Record a newspaper of general circulation published daily in the City of Helena, in the County of Lewis & Clark, State of Montana, and has charge of the advertisement thereof:

That the Oil & Gas - Jody Fields #34-1

a true copy of which is hereto annexed, was published in said newspaper on the following dates: viz.: April 5, 2008

making in all 1 publication(s).

Beverly G Allison

Subscribed and sworn to before me this 5 day of April, 2008.

Rose Marie Farr

NOTARY PUBLIC for the State of Montana
Printed Name: Rose Marie Farr
Residing at Helena, Montana
My commission expires 8-15-2010

(NOTARIAL SEAL)

**BEFORE THE BOARD OF OIL AND GAS
CONSERVATION
OF THE STATE OF MONTANA NOTICE OF
INTENTION TO APPLY
FOR PERMIT TO DRILL
OIL AND GAS WELL**

In the Matter of the application of
ALTAMONT OIL & GAS, INC
for a Permit to Drill an oil and gas well.

1. PO Box 488
Cut Bank, Montana 59427
2. Jody Fields #34-1
SE/4SW/4 - Section 34-T29N-R6W
(330' FSL x 2310' FWL)
Pondera County, Montana
3. Total Depth Proposed to be Drilled:
3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE. OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY; THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL; AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
April 5, 2008

Affidavit of Publication

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONSERV. BILLINGS

STATE OF MONTANA)

County of Pondera) ss.

John H. Lee

John H Lee

being duly sworn upon his oath says: That he is the Publisher of "The Independent-Observer," a weekly newspaper of general circulation, published weekly at Conrad, in the County of Pondera, State of Montana.

That the notice hereunto attached was published in the said "Independent-Observer" once each week for one successive weeks.

That the first publication of said notice was on the 10 day of April, 2008.

That the last publication of said notice was on the day of n/a, 20.....

That the said notice was published in the regular and entire issue of every said "Independent-Observer" during the period and time of said publication, and in the newspaper proper, and not in a supplement.

John H. Lee
Title: Publisher

Sworn to and subscribed before me this 10 day of April, 2008
Nancy Zelenka

Nancy Zelenka

Notary Public for the State of Montana, residing at Conrad, Montana. My commission expires

June 1, 2010

LEGAL NOTICE

BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

In the Matter of the application of)
) NOTICE OF)
) INTENTION TO APPLY)
) FOR PERMIT TO DRILL)
) ALTAMONT OIL & GAS, INC)
) OIL AND GAS WELL)
) for a Permit to Drill an oil and gas well.)
) 1. PO Box 488)
) Cut Bank, Montana 59427)
) 2. Jody Fields #34-1)
) SE/4SW/4 - Section 34-T29N R6W)
) (330' FSL x 2310' FWL))
) Pondera County, Montana)
) 3. Total Proposed Depth: 3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE, OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL, AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
Published April 10, 2008

RECEIVED

APR 11 2008

ALTAMONT OIL & GAS, INC

GaSCO Drilling LLC										
P.O. BOX 636		Shelby MT 58474		Phone (406) 434-3023			Fax (406) 434-3883			
Daily Field Report										
OPERATOR: AltaMont Oil & Gas Inc.				Depth at report time		Feet (24 Hours)		Weather:		
Lease and well name: Jody Field 34-1				3540		288		42 high clouds		
County:	State:	Field Name:		Last casing (OD & Depth)		Date	REPORT #	Reported By:		
Pondera	Montana	Wildcat Pondera		7" at 1874.94'		5/5/2008	5	Bud Postma		
Activity at Report Time: Conditioning hole for logs										
From	To	Hours	Operations In Sequence							
07:00	17:15	10.25	Drill ahead with mud to 3415'							
17:15	18:15	1.00	Replace air hose on pump clutch							
18:15	02:30	8.25	Drill ahead with mud to 3540'							
02:30	03:30	1.00	Raise viscosity and condition hole							
03:30	04:00	0.50	Run survey 1 degree							
04:00	07:00	3.00	Short trip 1100'							
TOTAL HOURS		24.00								
CUMMED HOURS		120.00								
Mud Record:										
TIME	DEPTH	WT	VISC.	PH	WATER LOSS	COMMENTS				
09:30	3291	8.3	32	9.0	7.0					
12:30	3340	8.3	35	9.0	6.4					
18:00	3400	8.4	34	9.0	6.4					
20:00	3438	8.8	40	9.0	8.0					
24:00	3500	8.7	41	9.0	6.0					
04:00	3540	8.8	80	9.0	5.4	RAISE VISCOSITY FOR LOGS				
Bit Record:										
Bit #	Size	W.O.B.	R.P.M.	Make	Type	IN	OUT	JT. SZ	Ser. No.	Daily Costs
2	6 1/4	20000	70	REED	SL51H	1873	3540	OPEN	PN3484	WOB \$0.00
										WOC N/A
										STANDBY \$0.00
										DR-LOGS \$0.00
										FOOTAGE COSTS \$12300.00
Mud and Additives					Other Materials					DAY-WORK COSTS
35 Sacks Max-Gel					2 Loads Water					Perable Tails: \$20.00
2 Sacks Poly Pac UL					Survey at 3540' 1 degree					Garbage \$20.00
					Pason with gas analyzer at \$225.00					Gring Product \$850.30
										Water and heating? \$400.00
										o \$0.00
										DAILY COST \$13599.30
										\$0.00
SUMMARY										TOTAL \$13599.30
Drill ahead with mud to 3540'. Build viscosity and condition hole. Run survey 1 degree. Short trip 1100' out. Conditioning hole at 07:00.										

RECEIVED

MAY - 5 2008

MONTANA BOARD OF OIL & GAS CONSB. BILLINGS

LIQUID GOLD WELL SERVICE, INC.

RECEIVED

Cement Work Order
Phone 406-873-2966
Fax 406-873-2997

P.O. Box 757
Cut Bank, MT 59427

JUN - 9 2008

Invoice # 2047

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS

Company Altamont
Address _____
City/State _____
Lease _____ Well Joly Fields 34-1
Long String _____ Surface Pipe X P & A _____ Camera _____

Date 5-1-08
Sec. 34 Twn. 29N Rng. 6W
County Pondera
Field Wildcat

API # 25-073-21830

Hole Size <u>8 3/4"</u>	Casing <u>2 1/2" 675' + 9.5'</u>	Plug #1 <u>675'</u>	to <u>0'</u>	Sacs <u>175</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing _____	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>679'</u> PBT _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP <u>44.6'</u>	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Travel to location, rig up, pump 20 bbls poly water ahead, pump 175 sac cement, displace plug with 26.55 bbls water wash up and rig down
11 bbls cement returns Plug down @ 1:15 pm

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>40</u>	Pump Truck Mileage			
15 <u>01</u>	Bulk Cement Truck			
<u>40</u> 100000	Bulk Truck Mileage X 9.4 ton			
<u>175.5x</u>	Bulk Cement			
<u>87.5#</u>	Cellophane			
<u>1gal.</u>	Polymer			
<u>493.5'</u>	CaCl			
<u>01</u>	Pick Up Charge X 40 miles			
<u>01</u>	Fuel surcharge 15% (PT + BT)			

Cementer

Tom Noland, Adam, Steven

Date 5-1-08

Agent of Owner or Contractor

[Signature]

Date _____

LIQUID GOLD WELL SERVICE, INC.

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

RECEIVED

P.O. Box 757
 Cut Bank, MT 59427

JUN - 9 2008

Invoice # 2048

MONTANA BOARD OF OIL
 & GAS CONG. BILLINGS

Company Altamont
 Address _____
 City/State _____
 Lease _____ Well # 34-1
 Long String X Surface Pipe _____ P & A _____

Date 5-6-08
 Sec. 34 Twn. 29N Rng. 6W
 County Pondera
 Field Jody Fields
 Camera _____

Hole Size	Casing	Plug #1	to	Sacs
<u>6 1/4"</u>	<u>4 1/2-3539.74'</u>	<u>3539.74'</u>	<u>2457.55'</u>	<u>1005X</u>
Drill Pipe	Casing	Plug #2	to	Sacs
Tubing	Casing	Plug #3	to	Sacs
TD <u>3540'</u> PBTB	Casing	Plug #4	to	Sacs
ECP <u>Flapper</u>	Casing	Plug #5	to	Sacs

Comments: Travel to location, rig up, take on water pump 10 bbls. Fresh water ahead, pump 1005x cement @ 10% salt and 10% fine mica, displace plug with 5697 bbls. water, pressure plug to 1000 # for 5 min. release pressure, wash up and rig down.
Plug down @ 1:30 AM

Quantity	Description	Unit	Disc.	Total
01	Cement Pump Truck			
40	Pump Truck Mileage			
01	Bulk Cement Truck			
40	Bulk Truck Mileage <u>4.7 ton</u>			
1005X	Bulk Cement			
0	Cellophane			
0	Polymer			
0	CaCl			
01	Pick Up Charge			
940 #	salt			
940 #	Mica			
1082'	cementing over 1500'			
01	Fuel surcharge 15% (PT+BT)			

Cementer

Todd Motenda, Terrance, John

Date 5-6-08

Agent of Owner or Contractor

[Signature]

Date _____

RECEIVED

MAY 28 2008

Date 5-16-08 (406)652-4400



7069 Niehenka Ave.
Billings, Montana 59101

MONTANA BOARD OF OIL
& GAS CONG. BILLINGS

INVOICE # 14557 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Pondera LEGAL SE SE 1/4 - 28 N - 6 W

ELEVATION 4071 KB ELEVATION 4076 DRILLER TD 3540' FIELD Wildcat

COMPETITION PERSONNEL J Seifert, J Brown UNIT # 1115 Out Bank Mt

COMPANY Altamont Oil Boas, Inc BY [Signature]

ADDRESS

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
		Casing	Lb/Ft	From	To
4501 SERVICE CHARGE: <u>Truck</u>		7"	17#	Surface	675'
Mileage Logging unit @ _____ per mile		4.5"	9.5#	Surface	3540'
Pickup @ _____ per mile					
Mast/crane @ _____ per mile					

Service 4536 Simultaneous Cement Ray
 Depth 3496'
 Oper. min operation chg

Service 4538 Acoustic Cement Bond Log
 Depth 3496'
 Oper. min operation chg

Service 4650 Perforate w/ 3/8" HPSlick
 Depth 3432'
 Oper. min shot charge

Service 4645 Gun Barrel 4'
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service It. Cement Loss Fu
 Depth _____
 Oper. Altamont / Field 5x1

Service (Ray Cement Bond Log - 10' perik)
 Depth _____
 Oper. _____

Fluid Water Level (surf) 1270'
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 CWS TD 3496 Driller TD 3540
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

PERFORATIONS			
Intervals	SPF	Total #	
<u>3428-3432 (4)</u>	<u>4</u>	<u>17</u>	

TOTAL PERFORATIONS: 17 Titan 19 gram Prospected

AFE #: APC#25-073-21830

Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

4592 Pressure Control / Pack Off
 subtotal
 discount
 subtotal

MATERIALS

4518 EHP Charge
 4504 Mileage 80 miles
 field total

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Witnessed by: Patrick Montalban
 Competition WS Starbuck Seifert
 (Please Print)

Date 5-21-08 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 14560 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Pondera LEGAL SESE SW 34-29N-6W

ELEVATION 4071' KB ELEVATION 4076' DRILLER TD 3540 FIELD Witelcat

COMPETITION PERSONNEL S Seifert, [REDACTED], A Brown J Brown #115 CutBank MT

COMPANY Altamond Oil & Gas Inc BY [Signature]

ADDRESS Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
<u>4501</u>	SERVICE CHARGE: <u>Truck</u>	Casing	Lb/Ft	From	To
	SERVICE CHARGE:	<u>7"</u>	<u>17#</u>	<u>Surface</u>	<u>675'</u>
	Mileage Logging unit @ _____ per mile	<u>4.5"</u>	<u>9.5#</u>	<u>Surface</u>	<u>3540'</u>
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4650 Perforate W3 1/2 HP Slick
 Depth 3442 @ .18' / ft depth chg
 Oper. 9 shot @ min shot chg
4645 Gun Barrel 2 ft.

Fluid _____ Level (surf) _____
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 DWS TD 3496' Driller TD _____
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

Service _____
 Depth _____
 Oper. _____
 Service _____
 Depth _____
 Oper. _____
 Service _____
 Depth _____
 Oper. _____
 Service _____
 Depth _____
 Oper. _____
 Service _____
 Depth _____
 Oper. _____

PERFORATIONS

Intervals	SPF	Total #
<u>3440-3442 (2)</u>	<u>4</u>	<u>9</u>

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MAY 29 2008

MONTANA BOARD OF OIL & GAS CONG. BILLINGS

TOTAL PERFORATIONS: 9 Titan 19 gram Prospects

AFE #: API# 25-073-21830

Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

4592 Pressure Control Pack off
 subtotal
 discount
 subtotal

MATERIALS

4504 Mileage 80
4516 EHBS Charge
 field total

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Witnessed by: Patrick Montalban
 Competition WS Starbuck Seifert
 (Please Print)

MAY 28 2008

Date 5-16-08 (406)652-4400



7069 Niehenke Ave. Billings, Montana 59101

MONTANA BOARD OF OIL & GAS COMB. BILLINGS

INVOICE # 14557 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Powdera LEGAL SE 5E SW 4 - 28N - 6W

ELEVATION 4071 KB ELEVATION 4076 DRILLER TD 3540 FIELD Wildcat

COMPETITION PERSONNEL J Seifert, J Brown UNIT# 1115 Cut Bank Mt

COMPANY Altamont Oil & Gas, Inc BY [Signature]

ADDRESS

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
4501	SERVICE CHARGE: Truck	Casing	Lb/Ft	From	To
	SERVICE CHARGE:	7"	17#	Surface	675'
	Mileage Logging unit @ _____ per mile	4.5"	9.5#	Surface	3540'
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4536 Simultaneous Gamma Ray
 Depth 3496'
 Oper. min operation chg

Service 4538 Acoustic Cement Bond Log
 Depth 3496'
 Oper. min operation chg

Service 4650 Perforate w/ 3/8" HPSlick
 Depth 3432'
 Oper. min shot charge

4645 Gun Barrel 4'

Service
 Depth
 Oper.

Service To: (exploratory) cost for
 Depth Altamont Field 34-1
 Oper. (Ray Cement Bond Log - 10' work)

Service
 Depth
 Oper.

EQUIPMENT, RENTALS, PERSONNEL

4592 Pressure Control / Rock Off
 subtotal
 discount
 subtotal

MATERIALS

4518 EHS Charge
 4504 Mileage 80 miles
 field total

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Fluid Water Level (surf) 1270'
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 CWS TD 3496 Driller TD 3540
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

PERFORATIONS

Intervals	SPF	Total #
3428-3432 (4)	4	17

TOTAL PERFORATIONS: 17 Titan 19 gram Prospects

AFE #: AFE#25-073-21830

Remarks:

Witnessed by: Patrick Montalban
 Competition WS Starbuck Seifert
 (Please Print)

Date 2-JUNE-2011 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 20367 LEASE/LOCATION JODY FIELD #34-1

STATE MONTANA COUNTY PONDERA LEGAL SE-SE-SW 4-28N-6W

ELEVATION 4071' KB ELEVATION 4076' DRILLER TD 3540' FIELD WILDCAT

COMPETITION PERSONNEL J Brown / S Seifert / M Fugle UNIT # 27 / CUT BANK, MT

COMPANY MOUNTAIN VIEW ENERGY, INC. BY [Signature]

ADDRESS _____

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
		Casing	Lb/Ft	From	To
<u>4501</u>	SERVICE CHARGE: <u>TRUCK</u>				
	SERVICE CHARGE:	<u>7.00"</u>	<u>17.0#</u>	<u>SURFACE</u>	<u>675'</u>
	Mileage Logging unit <u>90</u> @ <u>4.00</u> per mile	<u>4.50"</u>	<u>9.5#</u>	<u>SURFACE</u>	<u>3540'</u>
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4650 PERFORATE w/ 3 1/8 HP slick gun
Depth 3493' th chg
Oper. 166 SHOTS

Service 4645 Gum Barrel chg 45'

Service 4592 PRESSURE CONTROL:
Depth PACK OFF HEAD / FLOW TEE
Oper. _____

Service _____
Depth _____
Oper. _____

Service _____
Depth _____
Oper. _____

Service _____
Depth _____
Oper. _____

Service _____
Depth _____
Oper. _____

Service _____
Depth _____
Oper. _____

Fluid oil/water Level (surf) 1100'
Competition measurements are from (check One):
KB _____ GL _____ Prev. Logs X
CWS TD 3494' Driller TD 3540'
Plug model _____ Size _____ Depth _____
Packer _____ Size _____ Depth _____

PERFORATIONS

Intervals	SPF	Total #
<u>3448-3452 (4')</u>	<u>4</u>	<u>16</u>
<u>3490-3493 (3')</u>	<u>4</u>	<u>13</u>
<u>3480-3490 (10')</u>	<u>4</u>	<u>40</u>
<u>3470-3480 (10')</u>	<u>4</u>	<u>40</u>
<u>3452-3466 (14')</u>	<u>4</u>	<u>57</u>

TOTAL PERFORATIONS: 166 TITAN 196m
"PROSPECTOR"

AFE #: API # 25-073-21830

Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

SUBTOTAL
Discount <
SUBTOTAL:

MATERIALS

4518 Enviro, Health Safety chg
FIELD TOTAL:

RECEIVED

JUN - 8 2011

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

[Signature]
Int. Competition Costs
for Now - Jody Fields 34-1

Sub total
Other
TOTAL CHARGES
Sales Tax
TOTAL CHARGES

Witnessed by: JOSEPH MONTALBAN
Competition WS [Signature]
KH (Signature)
6-6-11

CE
6-6-11
rc

RECEIVED

AUG 17 2011

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Well Type (oil, gas, injection, other): INJECTION	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input checked="" type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>


Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Moved in and rigged up General Well Service Rig #12. Rigged up Competition Wireline Services and perforated 3448' - 3452'. Rigged down Competition Wireline Services and swab tested well. Rigged up Competition Wireline Services and perforated from 3490' - 3493', 3480' - 3490', 3470' - 3480', 3452' - 3466'. Rigged down Competition Wireline Services and moved off well on June 2, 2011.

BOARD USE ONLY	
Approved	AUG 18 2011 Date
Original Signed By George Hudak, UIC Director	
Name	Title

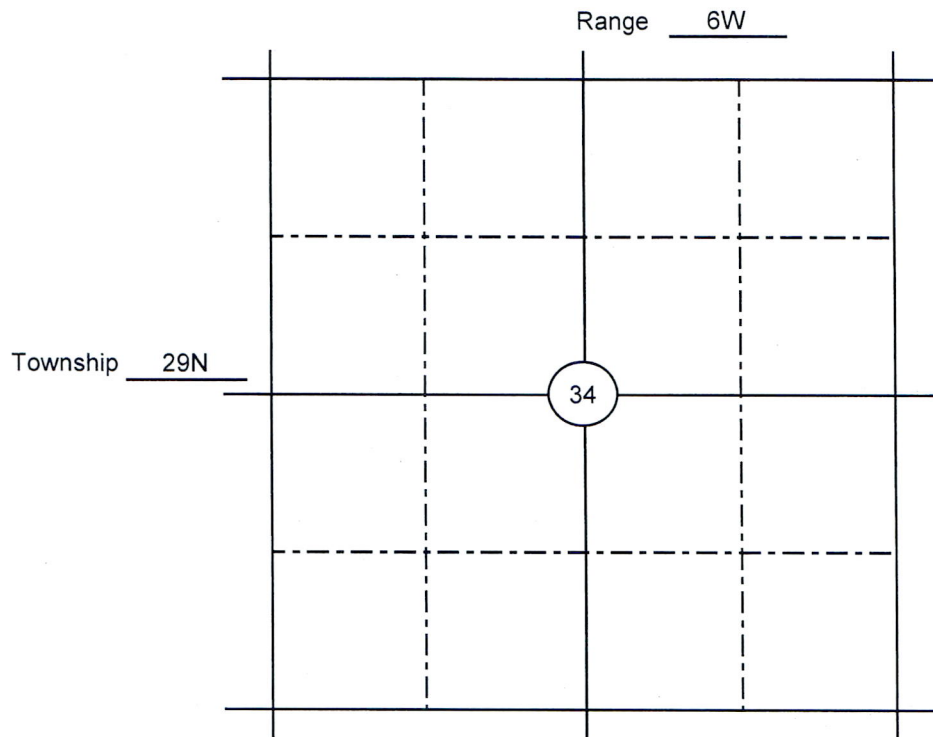
The undersigned hereby certifies that the information contained on this application is true and correct:

08/03/2011	
Date	Signed (Agent)
Joseph P. Montalban, Chief Operating Officer	
Print Name and Title	
Telephone: _____	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

RECEIVED

AUG 17 2011

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Well Type (oil, gas, injection, other): INJECTION	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input checked="" type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

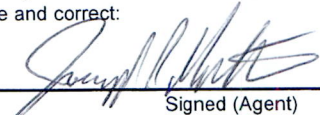
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Move in and rig up General Well Service Rig #12. Rig up Competition Wireline Services and perforate 3448' - 3452'. Rig down Competition Wireline Services. Swab test well. Rig up Competition Wireline Services and perforate from 3490' - 3493', 3480' - 3490', 3470' - 3480', 3452' - 3466'. Rig down Competition Wireline Services and move off well.

BOARD USE ONLY	
Approved AUG 17 2011	Date
Original Signed By George Hudak, UIC Director	
Name	Title

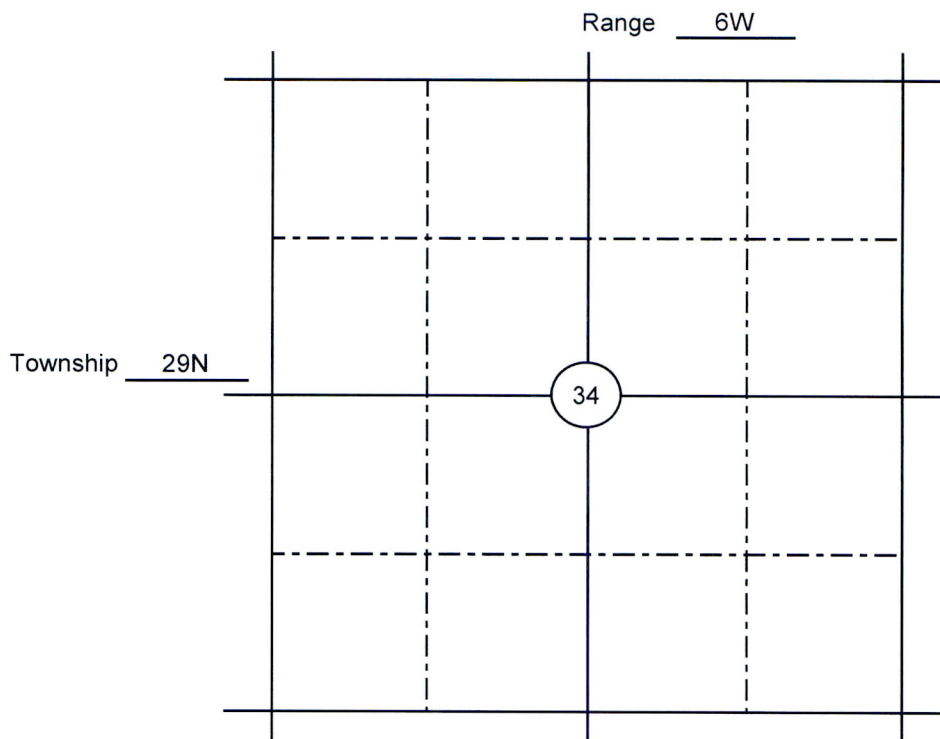
The undersigned hereby certifies that the information contained on this application is true and correct:

08/03/2011	
Date	Signed (Agent)
Joseph P. Montalban, Chief Operating Officer	
Print Name and Title	
Telephone: _____	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

RECEIVED

AUG 17 2011

SUNDRY NOTICES AND REPORT OF WELLS MONTANA BOARD OF OIL & GAS CONSERVATION, BILLINGS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Well Type (oil, gas, injection, other): OIL	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input checked="" type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

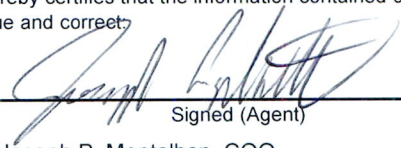
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Move in and rig up Liquid Gold Well Service. Pump 1500 gallons 28% HCl down tubing. Displace acid with 16 bbls of water. Rig down and move off well.

BOARD USE ONLY	
Approved <u> AUG 17 2011 </u>	Date
Original Signed By George Hudak, UIC Director	
_____ Name	_____ Title

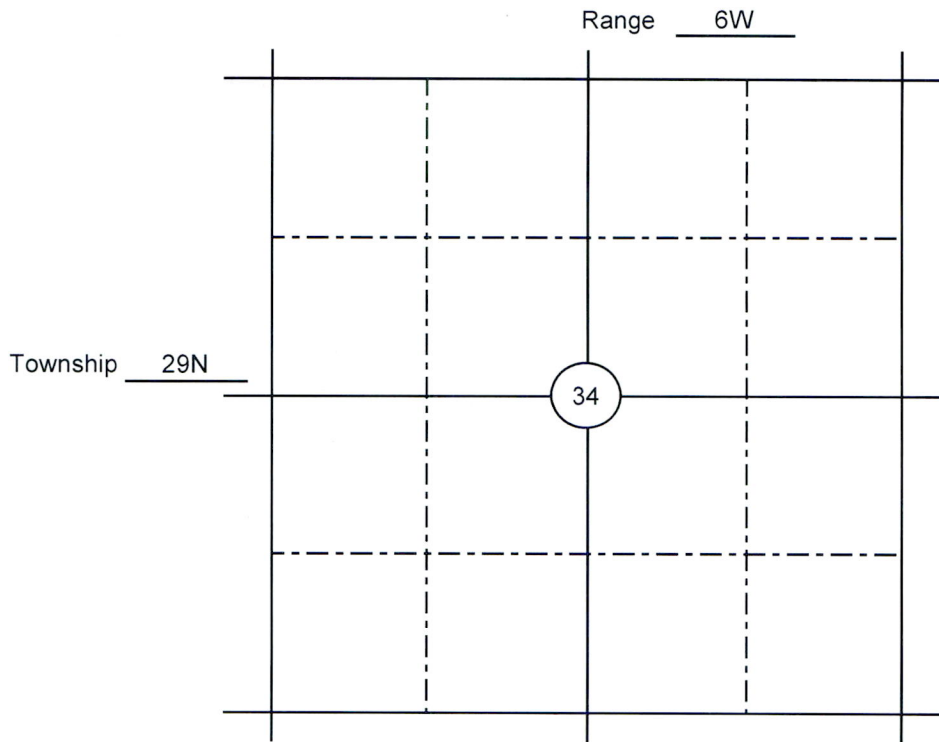
The undersigned hereby certifies that the information contained on this application is true and correct:

8/15/2011	
Date	Signed (Agent)
Joseph P. Montalban, COO	
Print Name and Title	
Telephone: _____	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

RECEIVED

SEP 06 2011

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE
City CUT BANK	State MT	Zip Code 59427
Telephone 406-873-2235	Fax 406-873-2835	
Location of well (1/4-1/4 section and footage measurements): NENW SW-SECTION 34-T29N-R6W (2310' FSL - 990' FWL) <i>NWSW</i>		Well Number: 34-2
API Number: 25 073 21838 State County Well		Unit Agreement Name:
Well Type (oil, gas, injection, other): INJECTION		Field Name or Wildcat: LONEMAN COULEE
		Township, Range, and Section: SECTION 34-T29N-R6W
		County: PONDERA

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>	CONVERT TO INJECTION WELL	<input checked="" type="checkbox"/>

Describe Proposed or Completed Operations:

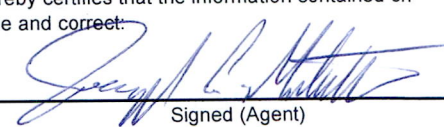
Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Well hooked up and commenced injection operations on January 21, 2011.

BOARD USE ONLY	
Approved	<u>SEP 06 2011</u> Date
Original Signed By George Hudak, UIC Director	
_____ Name	_____ Title

The undersigned hereby certifies that the information contained on this application is true and correct:

9/1/2011
Date


Signed (Agent)

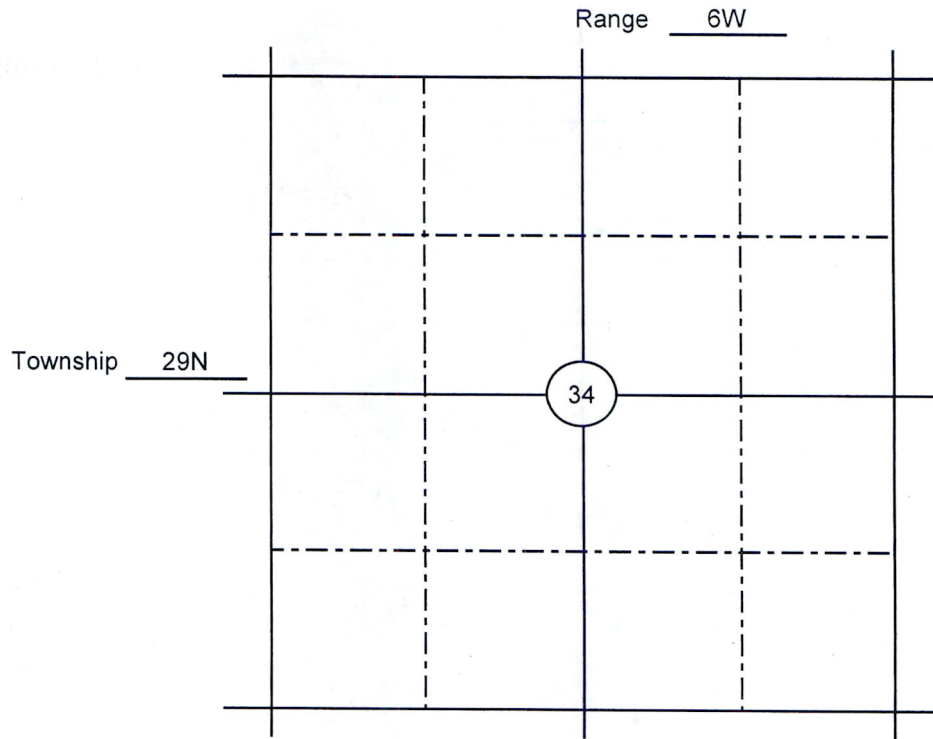
Joseph P. Montalban, V.P. of Operations
Print Name and Title

Telephone: (406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment C Well Construction Conversion Information

Privileged and Confidential

CONTENTS

1. Part I. Well Schematic Diagram (40 CFR § 144.52)	2
2. Part II. Well Construction or Conversion Procedures (40 CFR § 144.52)	3

FIGURES

- Figure 01. Well Jody Field 34-1 Well Schematic
- Figure 02. Well Jody Field 34-2 Well Schematic

EXHIBITS

- A. Well Records for Jody Field 34-1 and Jody Field 34-2
- B. Well Records for Jody Field 14-34 and Jody Field 4-1A
- C. WatchDog® Monitoring System Specifications

Privileged and Confidential

1. PART I. WELL SCHEMATIC DIAGRAM (40 CFR § 144.52)

Montalban Oil & Gas Operations, Inc (Montalban) intends to convert two (2) existing Class II UIC wells and two (2) shut-in oil and gas wells to Class V UIC wells for injection of industrial wastewater to be received from Montana Renewables, a renewable fuels refinery located in Great Falls, Montana. This application involves a phased approach with initial conversion of the 2 class II wells and subsequent conversion of the 2 oil and gas wells at a later date to accommodate future wastewater volumes from the refinery.

The Class II UIC wells to be converted at this time are identified as follows:

Well Jody Field 34-1
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21830

Jody Field No. 34-2
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21838

The current well schematics for Wells Jody Field 34-1 and 34-2 are provided in **Figures 01 and 02** respectively and include identification of confining layers and underground sources of drinking water (USDWs), casing and cementing details, and injection intervals. The injection wells are completed in the Madison Sun River Dolomite, and no additional well design changes are proposed.

The shut-in oil and gas wells to be converted at a future date are detailed below.

Well Jody Field 4-1A
Section 4- Township 28 North, Range 6 West
Pondera County, Montana
API No. 25-073-21842
Well Depth: 3,442

Well Jody Field No. 14-34
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21740
Well Depth: 3,415'

Current well records for Wells Jody Field 4-1A and Jody Field No. 14-34 are included in Exhibit B.

Privileged and Confidential

2. PART II. WELL CONSTRUCTION OR CONVERSION PROCEDURES (40 CFR § 144.52)

Well construction details for the existing Class II UIC Wells Jody Field 34-1 and 34-2 are provided below and included in the well completion reports provided in Exhibit A:

Well Jody Field 34-1

Depth to Top of Injection Formation: 3,428'

Injection Formation: Madison/Sun River Dolomite

Injection Interval: 110'

Jody Field No. 34-2

Depth to Top of Injection Formation: 3,438'

Injection Formation: Madison/Sun River Dolomite

Injection Interval: 81'

The Montana Board of Oil and Gas Conservation (BOGC) recently authorized workovers of the two Class II UIC wells, which included deepening the injection intervals and performing well stimulation (acidizing). Mechanical integrity tests conducted following workover operations indicated no loss of mechanical integrity. Well records including previously run logs and tests and a cement bond log for Well 34-1 is included in Exhibit A. The cement bond log indicates a good bond in Well 34-1 from a depth of 2,750 feet (beginning 500 feet above the confining Ellis Formation) to the top of the injection interval.

Prior to commencing operations, the wells will be equipped with the WatchDog® virtual well-site monitoring system, which will continuously track well parameters and immediately alert Montalban in the event of loss of pressure or well failure. Injection volumes and flow rates, pressure on the tubing, and pressure on the backside of the packer and tubing casing annulus will be monitored and real-time data will be remotely available 24/7. The pressure gauges are capable of monitoring pressures ranging from normal operating pressures up to the MAIP. Specifications for the WatchDog® system are included in Exhibit C. The tubing casing annulus will be filled with water treated with a corrosion inhibitor, and the valve will remain closed during normal operating conditions so that the pressure will be maintained at zero (0) psi.

A pressure actuated shut-off device (Murphy switch) will be located in the injection building and is set to shut-off flow from the injection pump when pressures reach within 200 to 300 psi of the Maximum Allowable Injection Pressure (MAIP) established for the wells. A "tap" will be placed at a conveniently accessible location on the discharge line of the pump that leads to the injection wells for collection of representative samples of the injected fluid. Further details regarding the injection site layout and location of monitoring devices is provided in Attachment D, Injection Operation and Monitoring Program.

Privileged and Confidential

FIGURES

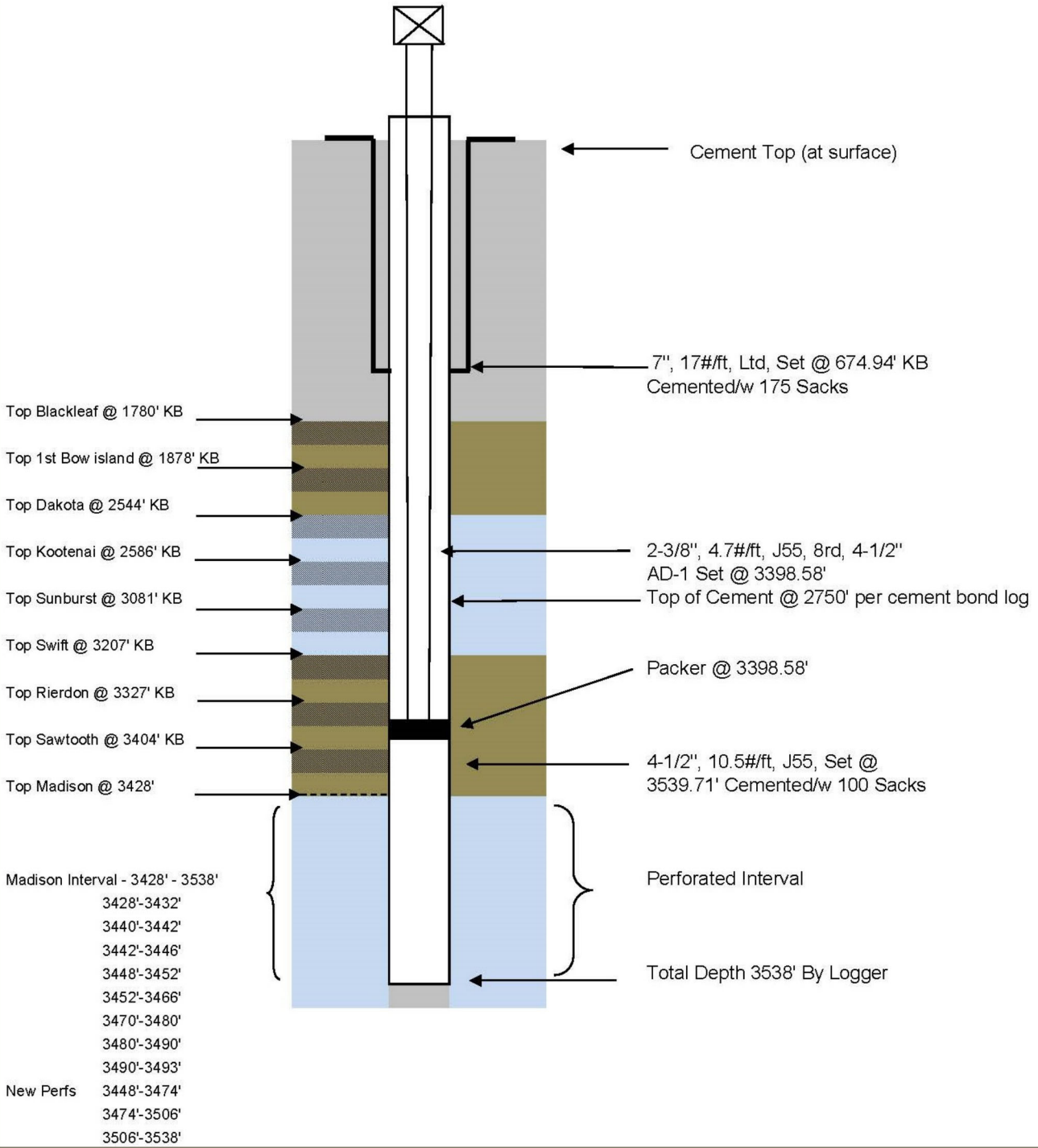
Figure 01. Well Jody Field 34-1 Well Schematic

Figure 02. Well Jody Field 34-2 Well Schematic

Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W (330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

SCHEMATIC
After Workover



USDW

Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment C
Figure 01

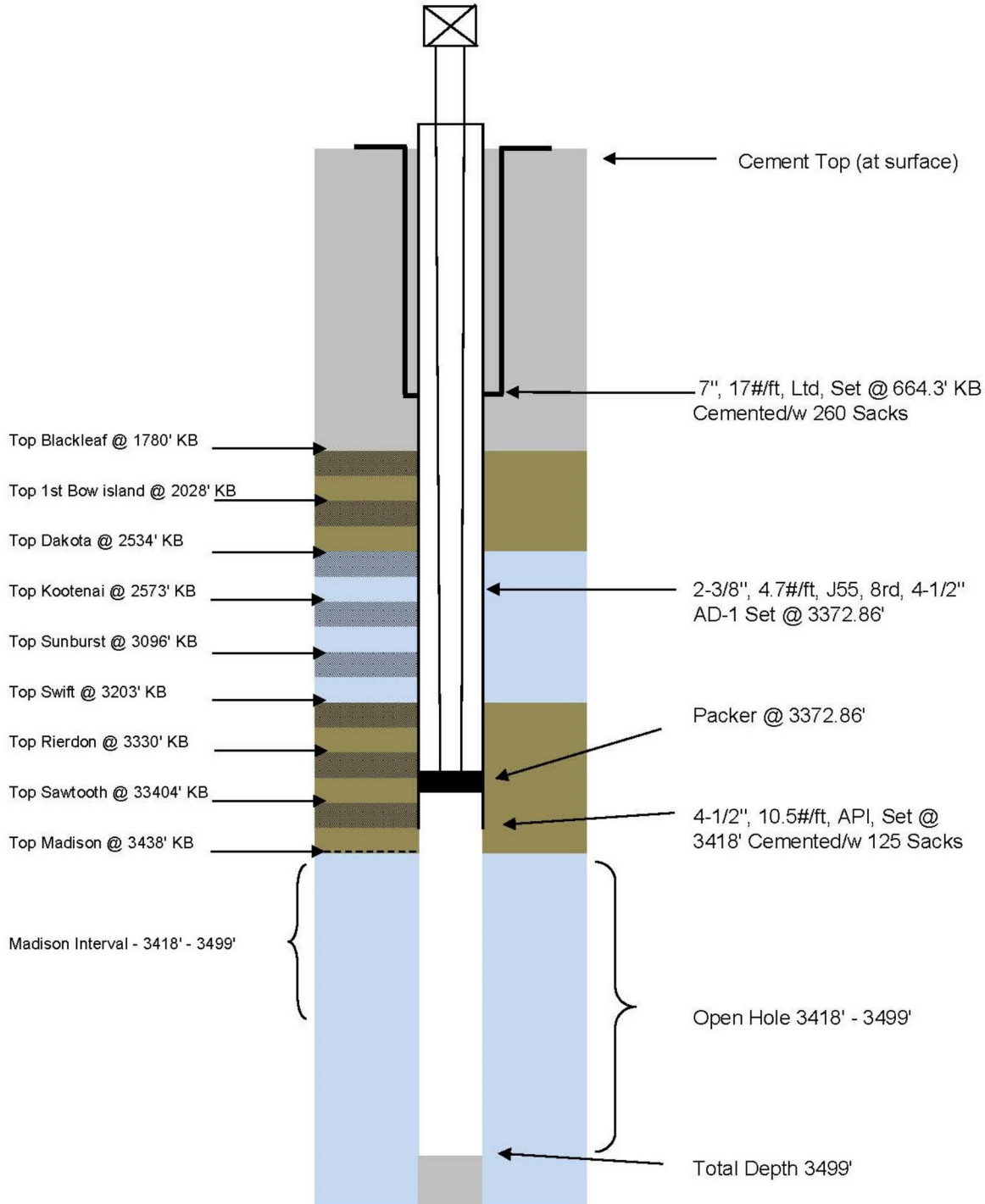
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment C
Figure 02

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Privileged and Confidential

EXHIBIT A

Well Records for Jody Field 34-1 and Jody Field 34-2

**Engineering Completion
Report**

**Montalban Oil & Gas Operations Inc
MOGO/Jody Field 34-1
NWNW – Section 34-T29N-R6W
(2310' FSL – 990' FWL)
Pondera County, Montana
API #25-073-21838**

**Altamont Oil & Gas Inc
Patrick M. Montalban
Petroleum Consultant
PO Box 488
Cut Bank, MT 59427**

Resume

Spud Date: August 28, 2008

Completion Date: May 6, 2008

Status: Madison Sun River Dolomite Injection Well

Elevation: 4071' GR 4076' KB

Total Depth: 3540' Driller 3539' Logger
4 1/2" set @ 3540' Float Collar 3495'

Hole Size: 8 3/4" (0 - 679') 6 1/4" (679' - 3540')

Casing Size: 7", 17#/ft, Ltd, ST&C, set @ 674.94' KB
w/175 sacks Class G Cement
4 1/2", 105#/ft, SPI, J55, ST&C, Rge 3 set
@ 3539.71 KB w/100 sacks Class G
Cement. Float collar @ 3495.42 KB

Perforations: 3428' - 3432' = 4 SPF = 3 1/8" HSC
3442' - 3446' = 4 SPF = 3 1/8" HSC
3440' - 3442' = 4 SPF = 3 1/8" HSC
3448' - 3452' = 4 SPF = 3 1/8" HSC
3452' - 3466' = 4 SPF = 3 1/8" HSC
3470' - 3480' = 4 SPF = 3 1/8" HSC
3480' - 3490' = 4 SPF = 3 1/8" HSC
3490' - 3493" = 4 SPF = 3 1/8" HSC
New Perforations 3448' - 3474' = 4 SPF = 3 1/8" Exp.
3474' - 3506' = 4 SPF = 3 1/8" Exp.
3506' - 3538' = 4 SPF = 3 1/8" Exp.

Bridge Plug: None

Tubing: 105 joints 2 3/8", 4.7 #/ft, J55. 8rd,
ST&C set @ 3398.58' with 4 1/2' x 2
38" ADI

Seating Nipple: None

Rods: None

Pump: None

Pumping Unit: None

Daily Activity Summary

Wednesday
September 2, 2022

70°F – 95°F Clear Sky. 30 mph from the west.

Began operations @ 9:00 am.

Moved in and rigged up Liquid Gold Well Service Rig No. 6. Haul in and set circulating tank and power swivel.

Rigged up 2:30 pm. Unseat 4 ½” x 2 3/8” AD-1 packer unseated @ 3:00 pm. Pack off tubing. Start and go through circulating pump. Shut down operations due to high winds 30-40 mph. Shut down operations @ 3:30 pm.

Total Rog Hours: 6 ½ hrs x \$260.00=		\$1,690.00
Travel Time: (2 Trucks) (per man) =		\$180.00
Tracking Costs:		
Pickup Costs: 2 trucks x \$60.00	=	\$120.00
Fuel Surcharge: 10%	=	\$169.00
Environmental Safety	=	\$50.00
Tool Pusher		\$350.00
Extra Labor: 1 man x \$45.00/hr	=	<u>\$292.50</u>
		\$2,851.50
Winch Truck: 3 hrs x \$165.00	=	\$495.00
2 hrs Tanker: 2 x \$165.00	=	\$330.00
1 Pickup: (\$60 per unit)	=	\$60.00
Fuel Surcharge: 10%	=	\$82.50
Pump Truck Mileage: 40 miles x \$4.00		\$160.00
1 Travel per Man: 2 x \$45.00	=	<u>\$90.00</u>
		\$1,217.50
1 day Consulting = 1500/2	=	\$750.00
Mileage: 60 miles x 1.00	=	<u>\$60.00</u>
		\$810.00
Total Daily Costs	=	\$4,879.00

Thursday
September 8, 2022

56°F – Cloudy Sky – 10-15 mph wind from North
Began operations @ 8:00 am. Well
flowed and equalized on the backside. Pulled and
strapped 2 3/8", 4.7#/ft tubing out of the hole. Pulled 105
joints 2 3/8", 4.7#/ft with 4 1/2" x 2 3/8" AD-1 Packer.
Tubing tally as follows

1 – 4 1/2" x 2 3/8" AD-1 Packer	=	2.50'
1 – 2 3/8" seating Nipple	=	1.10'
105 joints 2 3/8", 4.7#/ft, J55, 8rd	=	3391.98'
Total	=	3395.58'
KB	=	<u>3.0</u>
Total String	=	3398.58' KB

Stop and pick up 2 joints of 2 3/8" tubing. Tagged as
follows and slowly circulated to T.D.

		3398.58' KB
2 joints of 2 3/8" tubing	=	<u>62.90'</u>
		3461.48' KB

Stop and pick up 1 joint of 2 3/8" tubing

1 joint of 2 3/8" tubing	=	<u>31.45'</u>
Total 108 joints		
Total Tubing	=	3492.93' KB

48°F – Raining and very cloudy @ 2:00 pm.
Tagged @ 3461' KB and circulated to total depth 3493'
KB and recovered thick black oily sulphur water with
many solids. Circulated the last 15' to total depth 3493'
KB. Well went on a vacuum and we lost 15 bbls in 1
hour from the circulating tank. Successful clean out
of the well. Shut down operations @ 6:00 pm.

Total Rig Hours: 10 hrs x \$260.00	=	\$2,600.00
Travel Time: 4 men x 2 hrs x \$45.00	=	\$360.00
Trucking Costs		
Pickup Costs: 2 trucks x \$60.00	=	\$1,200.00
Circulating Tank: (Pump Tank)	=	\$550.00 /day
Power Swivel: 1 x \$250.00	=	\$250.00
Fuel Surcharge: 10%	=	\$315.00
Environmental & Safety	=	\$50.00
Tool Pusher		\$350.00
Swivel Delivery: 40 miles x \$4.00	=	\$160.00
3 7/8" Bit	=	\$600.00

Bit Sub	=	\$50.00
Extra Labor: \$45.00/hour x 10 hrs	=	\$450.00
Circulating Rubber	=	\$300.00
Pipe Dope	=	<u>\$25.00</u>
		\$6,180.00
Vacuum Truck: 2 ½ hrs x \$145.00	=	\$362.50
1 Pickup	=	\$60.00
1 hr Travel per Man	=	\$90.00
Fuel Surcharge	=	<u>\$36.25</u>
Total		\$548.75
1 day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	\$60.00
		<u>\$810.00</u>
Total		\$7,538.75

Friday
September 9, 2022

43°F – Raining and cold – NW wind from NW
Began operations @ 8:00 am. Ran 4 ½” x 2 3/8” AD-1 packer with 105 joints of 2 3/8”, 4.7#/ft tubing. Tubing string as follows:

1 – 4 ½” x 2 3/8” AD-1 Packer	=	2.50’
1 – 2 3/8” Seating Nipple	=	1.10’
105 joints 2 3/8”, 4.7#/ft, J55 8rd ST&C Tubing	=	3391.98’
Total String	=	3395.58’
KB	=	<u>3.00’</u>
Total String KB	=	3398.58’ KB

Moved in and rigged up Liquid Gold Pump and Transport Truck. Pressure up backside to 500#/s. Acidized well with 1000 gallons of 28% Hcl (23.8 bbls) Acid job as follows:

Pumped acid @ 1000#/s to load perforations
Pumped 23.8 bbls Hcl acid @ 1000 bbls @ 1 bbl/minute
Pumped displacement @
 Pumping – 2.0 bbls/minute @ 1200#/s
 Pumping – 3.0 bbls/minute @ 1750#/s
 Pumping – 3.0 bbls/minute @ 1100#/s
 Over displaced by 30.0 bbls
Instant shut in Pressure = 1000#/s
5 minute shut in Pressure = 100#/s
7 minute shut in Pressure = 0#/s

Well on a vacuum. Unseat 4 1/2" x 2 3/8" AD-1 Packer and pulled 105 joints of tubing. Pick up 3 7/8" bit and sub and ran tubing string as follows:

1 – 3 7/8" bit and bit sub	=	1.25
108 joints 2 3/8 " , 4.7#/ft		
J55, 8rd, ST&C	=	3492.93'
Total String	=	3494.18'
Pick up 1 joint 2 3/8" tubing	=	31.45
Total string = 109 joints		
		3525.63 Gr
Add KB	=	<u>3.0'</u>
		3528.63 KB

Tagged float collar @ 3492.93 KB. Picked up power swivel and began to drill float collar @ 3:00 pm. Drilled from 3 7/8" from 3:00 pm to 5:30 pm. Shut down operations @ 5:30 pm

Total Rig Hours: 9 hrs x \$260.00	=	\$2,470.00
Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00 per man	=	\$270.00
Fuel Surcharge: 10%	=	\$357.00
Environmental & Safety	=	\$50.00
Supervisor: \$350.00 per day	=	\$350.00
Pump Tank: \$550.00 per day	=	\$550.00
Power Swivel: \$550.00 per day	=	\$550.00
4 1/2" AD-1 Packer: Rental 1 day x \$250	=	\$250.00
Crossover Sub	=	<u>\$50.00</u>
Total Rig Costs	=	\$5,017.00

Acid Job = 1000 gallons 28% Hcl

Acid Pump Truck	=	\$1,600.00
Pump Truck Mileage	=	-----
Bulk Acid Truck: \$750 per day	=	\$750.00
Mileage Bulk truck: \$4.00/mile x 40 miles	=	\$160.00
1000 gallons 28% Hcl	=	\$3,250.00
Additives	=	\$489.50
1 Pickup: \$60.00 per day	=	\$60.00
Fuel Surcharge: 10%	=	\$249.50
Environmental & Safety	=	<u>\$75.00</u>
Total Costs	=	\$6,779.00

Total Rig Costs = \$11,796.00

Consulting: \$1500per day/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total		\$12,606.00

Monday
September 12, 2022

59°F – Very Smokey – North/North West wind 15 mph.
Began operations @ 8:00 am. Rigged up power swivel and drilling equipment. Drilled from 9:00 am – 10:30 am. Drilled out 4 1/2" float collar @ 10:30 am. Drilled 3 7/8" hole from 3495' to 3528.63'. Picked up 110th joint and drilled from 3528.63' to 3538.63' from 10:30 am to 12:00 pm. Drilled 3 7/8" hole from 3583.63' to 3543'. Tag guide shoe. Began to torque up 3 7/8" bit. Total depth @ 3543' KB by rig operators. Circulate and clean hole. Total pipe tally below:

1 – 3 7/8" bit and bit sub	=	1.25'
Ran 109 2 3/8", 4.7#/ft, J55, 8rd ST&C Rge 3	=	3524.38'
Total String	=	3525.63'
Add KB = 3'	=	<u>3.00'</u> 3528.63'
Picked up 110 joints = 31.45'		
Drilled 14' of the 110 joints	=	<u>14.0'</u>
Total String		3542.63'

Total depth 3543.0' KB by rig operator. Circulated hole clean for 1 hr. Hole clean. Tripped 110 joints out of the hole. Pick up 3 7/8" bit and casing scraper.

69° - Very smokey – North/Northwest wind @ 15 mph
Trip 110 joints 2 3/8", 4.7#/ft tubing into hole and tag total depth 3543' KB by operator. Circulated hole and reciprocate a number of times from 3420' – 3543' KB. Circulated tubing and rotate tubing and well cleaned out to total depth with no fill. Lift tubing above 3420'. Shut down operations @ 5:00pm.

Total Rig hours: 9hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45/hr/man	=	\$360.00
Fuel Charge: 10%	=	\$344.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$550.00
Power Swivel	=	\$550.00
4 1/2" Scraper	=	\$150.00
3 7/8" Bit for Scraper	=	\$200.00
Extra Labor: (1 guy) \$45/hr	=	\$405.00
Bit Sub	=	\$50.00

Pipe Dope	=	<u>\$25.00</u>
Total Daily Costs	=	\$5,494.00
1 Day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total Daily Costs	=	\$6,304.00

Tuesday
September 13, 2022

59°F – Very Smokey – Very little wind
Began operations @ 11:00 am. Tripped to total depth 2543' KB and tagged no fill. Rolled hole and circulated well clean. Trip out of hole for perforating company. Rigged up Nine Energy Service @ 2:00 pm. Ran 3.75" gauge ring to total depth 3538' KB. Perforated 3506' – 3538' = 4 SPF, 3 1/8" expendable gun. 32' = 120 shots, successful shooting. Perforated 3474' – 3506' = 4 SPF, 3 1/8" expendable gun. 32' = 120 shots, successful shooting. Perforated 3448' – 3474' = 4 SPF, 3 1/8" expendable gun. 26' = 96 shots, successful shooting. Shot 90' of the Sun River Dolomite Formation. Rigged down Nine Energy Service. Tripped in _____ joints of 2 3/8" tubing with a 4 1/2" x 2 3/8" SD-1 Packer with 3 joints of tail pipe. Tubing tally as follows:

1 – 4 1/2" x 2 3/8" AS-1 Packer	=	2.50'
1 – 2 3/8" seating nipple	=	1.10'
105 joints 2 3/8", 4.7#/ft, J55, 8rd ST&C Rge 3	=	3391.98'
Total	=	3395.58'
KB = 3'	=	<u>3.0'</u>
		3398.58'
3 joints of tubing = total 108 joints =		<u>94.35'</u>
3 joints of tubing below packer		
Set @ _____		3492.93'

Packer set @ 3398.58' KB

Set 4 1/2" x 2 3/8" AS-1 Packer @ 3399' KB. Shut down operations @ 6:30 pm

Total Rig Hours: 7 1/2 x \$260.00	=	\$1,950.00
Daily Pickup: 2 hrs x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$250.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$550.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$3,515.00

3 hours water tanker: 3 x \$165.00	=	\$495.00
2 hours pickup: 2 x \$45.00	=	\$90.00
1 pickup:	=	\$60.00
Fuel Surcharge: 10%	=	\$49.50
Environmental: \$50.00/day	=	<u>\$50.00</u>
		\$744.50

Nine-CDK Perforating LLC
Perforated Madison Sun River Dolomite \$28,770.00

1 day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00/mile	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs = \$33,839.50

Perforating Summary

**MOGO/Jody Fields 34-1
SESESW Section 34-T28N-R6W
Pondera County Montana**

No. 1 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3506’ – 3538’
3 1/8” Expendable Gun = 33.2” Penetration .55 Diameter
4 SPF = 120 Shots
Collar Locator = 3503’7”
Shot @ 3:21 pm
Successful Shooting**

No. 2 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3474’ – 3506’
3 1/8” Expendable Gun = 33.2 Penetration .55 Diameter on shot hole
4 SPF = 120 Shots
Collar Locator 3503’7”
Shot @ 3:57 pm
Successful Shooting**

No. 3 Perforated Interval

**Perforated Formation – Madison Sun River Dolomite
Perforated Interval – 3448’ – 3474’
3 1/8” Expendable Gun = 33.2 Penetration .55 Diameter on shop hole
4 SPF = 96 shots
Collar Locator = 3445’7”
Shot @ 4:29 pm
Successful Shooting**

Wednesday
September, 13, 2022

55°F – Very Smokey – Wind from NW @ 9 mph
Began operations @ 8:00 am. Moved in and
rigged up Liquid Gold Well Service Pump Truck
and Acid Transport. Pressured backside to
600#/s. Held OK. Began acid job @ 10:00 am.
Acidized well with 1000 gallons of 28% Hcl Acid
as follows:

Total Acid = 23.8 bbls Total displacement = 15.5
bbls. Load acid in tubing. Acid on perforation
with 13.5 bbls pumping @ 400#/s. Acid job as
follows:

Pumped 2.0 bbls/min @ 900#/s
Pumped 2.0 bbls.min @ 1000#/s
Pumped 23.8 bbls of acid and start displacement
Pumped 2.0 bbls/min @ 900#/s pumped 13.5 bbls
of displacement

Pumping 3.0 bbls/min @ 1400#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1500#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1000#/s 10 bbls over
displacement
Pumping 3.0 bbls/min @ 1000#/s 5 bbls over
displacement

Pumped 35.0 bbls over displacement

ISI = 600#/s
1 minute shut in = 100#/s
2 minute shut in = vacuum

Job ended. Moved out Liquid Gold Equipment
Unseat 4 1/2" x 2 3/8" AD-1 Packer

1:00 pm – 59°F – Very Smokey
Tripped out 105 joints of 2 3/8" tubing. Remove
packer. Pickup rebuilt 4 1/2" x 2 3/8" AD-1
packer. Ran tubing as follows:

1 – 4 1/2" x 2 3/8" AD-1 Packer = 2.50'
1 – 2 3/8" Seating Nipple = 1.10'

105 joints 2 3/8", 4.7#/ft, J55, 8rd
ST&C tubing = 3391.58'

Total String = 3395.58'
KB = 3.0'

Tubing set @ 3398.58' KB

Rolled to casing with 50 bbls of corrosion inhibited water. Fluid clean. Landed 4 1/2" x 2 3/8" AD-1 Packer with 13,000#/s over string weight. Held OK. Ran MIT test on well as follows:

<u>Time</u>	<u>Pressure</u>	<u>Result</u>
2:24 pm	450#/s	Held OK
2:29 pm	450#/s	Held OK
2:34 pm	450#/s	Held OK

Passed MIT test. Rigged down and moved Fields #34-2. Shut down operations @ 3:00pm

Total Rig Hours: 7 hrs x \$260.00	=	\$1,820.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 1 hr x \$45.00/man	=	\$135.00
Fuel Surcharge: 10%	=	\$237.00
Environmental & Safety	=	\$50.00
Supervisor	=	\$350.00
Pump & Tank	=	\$550.00
4 1/2" Redress Packer	=	\$500.00
2" fill port part 3000#/s valve		
For acid job & pressure handline	=	\$540.00
4 1/2" x 2 3/8" AD-1 for acid job	=	\$250.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$4,442.00

Acid job 1000 gallons 28% Hcl

Acid Pump Truck	=	\$1,600.00
Bulk Acid Truck	=	\$750.00
Bulk Mileage	=	\$160.00
Bulk Acid 1000 gallons @		
3.25 x 1000	=	\$3,250.00
Additives	=	\$704.50
Environmental: \$75.00/day	=	\$75.00
1 Pickup	=	\$60.00
Fuel Surcharge: 10%	=	<u>\$301.00</u>
Total Costs	=	\$7,560.00

1 Day Consulting: 1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs = \$12,812.00

Total Workover = \$77,979.25

**Engineering Completion
Report**

**Montalban Oil & Gas Operations Inc
MOGO/Jody Field 34-2
NENWSW – Section 34-T29N-R6W
(2310' FSL – 990' FWL)
Pondera County, Montana
API #25-073-21838**

Lone Man Coulee Field

**Altamont Oil & Gas Inc
Patrick M. Montalban
Petroleum Consultant
PO Box 488
Cut Bank, MT 59427**

Resume

Spud Date: August 7, 2008

Completion Date: August 18, 2008

Status: Madison Sun River Dolomite Injection Well

Elevation: 4033' GR 4038' KB

Total Depth: 3415' Driller 3451' Logger

Hole Size: 8 3/4" (0 – 668')
6 1/4" (668' – 3415')
3 7/8" (3415' – 3451')
New Open Hole

Casing Size: 7", 17#/ft, Ltd, ST&C, set @ 664.30' KB cemented w/260sacks Class G Cement
4 1/2", 10.5#/ft, API, J55, ST&C, Rge 3 set @ 3418' KB w/125 sacks Class G Cement.

Perforations: None

Bridge Plug: None

Open Hole: 3418' – 3499' KB

Tubing: 107 joints 2 3/8", 4.7 #/ft, API, J55, Rge set @ 3366.36

Seating Nipple: 3365.16 KB

Rods: None

Pump: None

Pumping Unit: None

Status: Injection Well

Daily Activity Summary

Wednesday
September 14, 2022

70°F – Partly Cloudy – Smokey – NW wind @ 10 mph.
Began operations @ 3:00 pm. Moved in and rigged up
Liquid Gold Well Service Rig No. 6. Unseat 4 1/2" x 2 3/8"
AD-1 packer. Trip 107 joints of 2 3/8", 4.7#/ft, J55, API
out of hole. Strapped out of the hole. 4 1/2" x 2 3/8" AD-1
packer looked good. Shut down operations @ 7:00 pm

Total Rig Hours: 4hrs x \$260.00 = \$1,040.00
Pickup Travel: 1 hr x 1 hr x \$45.00/man \$135.00

Environmental = \$50.00
Fuel Surcharge: 10% = \$104.00

Total Costs = \$1,279.00

Thursday
September 15, 2022

60°F – Smokey – Partly Cloudy – Very little wind
Began operations @ 8:00 am. Moved in circulating tank
and power swivel. Haul H2O into location to fill tanks
and clean well out to total depth: 3451'. Ran 109 – 2 3/8",
4.7#/ft, J55, 8rd with 3 7/8" bit to clean out well to total
depth 3451'. Tubing as follows:

1 – 3 7/8" bit = 2.50'
1 – 2 3/8" seating nipple = 1.10'
109 – 2 3/8", 4.7#/ft, J55 8rd
ST&C = 3417.30'

Total String = 3420.90'
KB = 3.0 = 3.0'
3423.90'

Out 

1 – 3 7/8" bit = 2.50'
1 – 3 7/8" x 2 3/8" change over = 1.10'

109 – 2 3/8", 4.7#/ft, J55, 8rd
ST&C = 3417.30'

In 

Total String = 3420.90'
KB = 3.00'
3423.90' KB

Finish hauling equipment and H2O into circulating tanks.
Need to clean out 27' out of open hole.

Thursday
September 15, 2022

64°F – Smokey – Slight rain @ 3:00 pm.
Tagged tubing @ 3424' KB. Cleaned out 3 7/8" hole from
3424' to 3451'. Hard drilling. Could be drilling on float
collar from 4 1/2" casing. Total depth by operator 3451'
KB. Shut down operations @ 6:00 pm.

Total Rig Hours: 10 hrs x \$260.00	=	\$2,600.00
Daily Pickup: 2 trucks x \$60.00	=	\$170.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$370.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$550.00
Power Swivel	=	\$550.00
Bit Sub	=	\$50.00
3 7/8" Bit	=	\$200.00
Trailer Rental	=	\$100.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$5,235.00

Other Costs

Winch Truck: \$165.00/hr 5 x \$165.00		\$825.00
Tanker: 2 hrs x \$165.00/hr	=	\$330.00
Vacuum Truck: \$145.00/hr x 2 hrs	=	\$290.00
Environment Safety	=	\$75.00
Fuel Surcharge	=	<u>\$144.00</u>
		\$1,664.50

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily Costs	=	\$7,709.50
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Friday
September 16, 2022

55°F – Little Smokey – Little wind – Slight rain
Began operations @ 8:00 am. Circulate & clean out well bore. Continue to torque up 3451'. Lose approximately 5 - 6 bbls of H2O overnight and while cleaning well bore. Drill on float collar on bottom & finish cleaning well bore. Trip out 109 – 2 3/8", 4.7#/ft, J55, 8rd joints of tubing with 3 7/8" bit. Remove bit and change over and trip in hole with 107 – 2 3/8", 4.7#/ft, J55, 8rd joints of tubing with 4 1/2" x 2 3/8" AD-1 packer. Shut down operations @ 3:30 pm.

Total Rig Hours: 7 1/2hrs x \$260.00 =	\$1,950.00
Daily Pickup: 2 trucks = 2hrs x \$60.00	\$120.00
Pickup Travel: 2hrs x \$45.00/man =	\$270.00
Fuel Surcharge: 10%	= \$305.00
Environmental & Safety	= \$50.00
Supervisor & Tool Pusher	= \$350.00
Pump and Tank	= \$550.00
Power Swivel	= \$550.00
Change Over for Bit	= \$50.00
Wellhead Rubber	= \$300.00
Trailer	= \$100.00
Pipe Dope	= <u>\$25.00</u>
Total Daily Costs	= \$4,620.00
1 day consulting: \$1500/2	= \$750.00
Mileage: 60 miles x \$1.00	= <u>\$60.00</u>
	\$810.00
Total Costs	= \$5,430.00

Monday
September 19, 2022

60°F – Partly Cloudy
Began operations @ 8:00 am. Well on a vacuum. Set 4 1/2" x 2 3/8" AD-1 packer with 15,000#/s over string weight. Tubing string as follows:

1 – 4 1/2" x 2 /38" AD-1 Packer	=	2.50'
1 – 2 3/8" Seating Nipple	=	1.10'
107 joints 2 3/8", 4.7#/ft, J55 8rd, ST&C	=	3366.36'
Total String	=	3369.96
KB	=	<u>3.00'</u>

Packer set @ = 3372.96' KB

Pressure tested and pressure up backside to 500#/s. Held OK. Acidized well with 100 gallons 28 Hcl. Acid job as follows:

Acid Job = 1000 gallons 28% Hcl

Pumped 1.0 bbls acid @ 1.5 bbl/min @ 500#/s
Pumped 2.3 bbls acid @ 1.5 bbl/min @ 750#/s
Pumped 10 bbls acid @ 1.5 bbl/min @ 1000#/s
Pumped 10 bbls acid @ 1.5 bbl/min @ 1000#/s
Total 23.8 bbls acid

Pumped 5.0 bbls of water after acid job. Shut down for 5 minutes and pressure dropped form 1000#/s to 500#/s.

Over-Displaced Acid job with 35 bbls as follows:

Pumping @ 3.0 bbls/min @ 1250#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1500#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1750#/s 10 bbls displaced

Pumping @ 3.0 bbls/min @ 1850#/s 5 bbls displaced

Total 35.0 bbls displaced

Instant Shut in = 1500#/s
5 min shut in = 1100#/s
10 min shut in = 900#/s
15 min shut in = 800#/s

Well flowed back 11.0 bbls after acid job. Tripped in with 3 7/8" bit and sub and tagged on the 100th joint. Tubing string as follows:

1 – 3 7/8" Bit = 2.50'
1 – 3 7/8" x 2 3/8" changeover sub = 1.10'

110 joints of 2 3/8" x 4.7#/ft, J55
8rd, ST&C Tubing = 3460.70'
3464.30'
3' KB = 3.00'
Total String = 3467.30' KB

Drilled down on the 110th joint. Drilled fairly easy with a few tight spots. Shut down operations @ 6:00 pm

Total Rig Hours: 10hrs x \$260.00	=	\$2,600.00
2 Trucks: 2 x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$370.00
Environmental & Safety	=	\$50.00
Supervisor & Tool Pusher	=	\$350.00
New 3 7/8" Bit	=	\$1,400.00
Pump and Circulating Tank	=	\$550.00
Power Swivel	=	\$550.00
Trailer	=	\$100.00
Tubing Wiper Rubber	=	\$25.00
Bit Changeover 3 7/8" x 2 3/8"	=	\$50.00
Pipe Dope	=	\$25.00
1 – 4 1/2" AD-1 Packer (Acid Job)	=	<u>\$250.00</u>
		\$6,710.00

1000 gallon 28% Hcl Acid Job

1 – Acid Pump Truck	=	\$1,600.00
1 – Bulk Acid Truck	=	\$750.00
Bulk Mileage: 4.00/mile	=	\$160.00
1000 gallons 28% Acid \$3.25/gallon		\$3,250.00
Additives	=	\$549.50
Fuel Surcharge: 10%	=	\$301.00
Environmental	=	\$75.00
2 Travel \$45.00/man	=	<u>\$90.00</u>
		\$7,164.50

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Daily = \$14,684.50

**Tuesday
September 20, 2022**

**49°F – Partly Cloudy – Wind from N to NW.
Began operations @ 8:00 am. Picked up 111 joint and
drilling. Tubing string as follows:**

1 – 3 7/8" Bit	=	2.50'
1 – 3 7/8" x 2 3/8" change over	=	1.10'
111 joints 2 3/8" x 4.7#/ft		
J55, 8rd, ST&C Rge 3	=	3492.28'
Total String	=	3495.88'
3.0 KB	=	<u>3.00'</u>
		3498.88' KB

Drilled to total depth 3498.88 KB. Drilling fairly well.
 Drilling slows down after a break. Have not lost volume.
 Drilled to total depth 3499' KB Shut down operations @
 5:30 pm

Total Rig Hours: 9 ½ hrs x \$260.00=	=	\$2,410.00
Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/hr/man	=	\$270.00
Fuel Surcharge: 10%	=	\$357.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$350.00
Power Swivel	=	\$550.00
Trailer	=	\$100.00
BA Sub and Cross Over	=	\$50.00
Pipe Dope	=	<u>\$25.00</u>
		\$4,892.00
Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00
Total Costs	=	\$5,702.00

Wednesday
 September 21, 2022

32°F – Sunny – No Wind
 Began operations @ 8:00 am. Circulated and clean open hole to 3499' KB by operator. Circulated hole 30 minutes to clean to total depth. Tripped 3 7/8" bit and tubing out of hole. Tripped in 4 ½" x 2 3/8" AD-1 packer for acid job. Tubing string as follows:

1 – 4 ½" x 2 3/8" AD-1 Packer	=	2.50'
1 – Seating Nipple	=	1.10'
107 joints 2 3/8", 4.7#/ft, J55, 8rd Tubing	=	3366.36'
Total String	=	3369.96'
KB	=	<u>3.00'</u>
		3372.96 KB

Circulated corrosion inhibitor on the backside. Set 4 ½" x 2 3/8" AD-1 packer set @ 3372.96 KB with 15,000 #/s over string weight. Pressure up backside to 500#/s. Held OK. Need to repair pump truck. Shut down operations @ 5:00 pm.

Total Rig Hours: 9 hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60/truck	=	\$120.00

Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$289.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump and Tank	=	\$550.00
Power Swivel	=	\$200.00
Redress 4 ½" AD Packer	=	\$500.00
Bit Crossover Sub	=	\$50.00
Dope	=	\$25.00
Trailer	=	<u>\$100.00</u>
Total Daily Costs	=	\$4,844.00

Other Costs		
1 Pump Truck	=	\$750.00
Vacuum Truck: 2 hrs x \$145/hr	=	\$290.00
Environmental: \$75.00/day	=	\$75.00
Fuel Surcharge: 10%	=	<u>\$104.00</u>
Total Costs	=	\$1,219.00

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
Total Costs	=	\$810.00

Total Daily Costs = \$6,873.00

Thursday
September 22, 2022

46°F – Cloudy – Slight Rain – Wind from SW
Began operations @ 10:00 am. Moved in and rigged up
Liquid Gold Well Service Acid Bulk Truck and Pump
Truck. Acidized well with 1000 gallons 28% Hcl.
Acid job as follows:

1000 gallons 28% Hcl Acid
23.8 bbls of Acid
13.55 bbls of tubing volume

Began job @ 10:52 am:

Pumped 28.0 bbls of acid from 300#/s to 800#/s @ 1.5
bbls/minute

Finished pumping acid @ 800#/s @ 1.5 bbls/minute
Shut down and pressure dropped to 500#/s

Displaced 48.0 bbls as follows

Pumped 13.5 bbls 110#/s @ 1.6 bbls/minute
Over-displaced by 35bbls as follows

Pumped 5.0 bbls @ 1600#/s @ 3 bbls/minute
Pumped 10.0 bbls @ 1650#/s @ 3 bbls/minute
Pumped 10.00 bbls @ 1700#/s @ 3 bbls/minute
Pumped 10.0 bbls @ 1700#/s @ 3 bbls/minute

Pumped 48.5 bbls displacement

Instant shut in	=	1100#/s
5 min shut in	=	650#/s
10 min shut in	=	350#/s
15 min shut in	=	200#/s

Well in a vacuum. Rigged down Liquid Gold Well Service. Ran MIT test for state @ 3:00 pm. Pressured up backside to 345#/s. Slow leak. Moved packer and pulled 15,000#/s over packer. Pressure tested to 350#/s. Failed test. Pulled tubing and packer to repair leak. Shut down operations @ 5:30 pm

Total Rig Hours: 7 ½ hrs x \$260.00=	=	\$1,950.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$250.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Pump & Tank	=	\$500.00
Tailer	=	<u>\$100.00</u>
Total Costs	=	\$3,640.00

Acid Job

1 Pump Truck	=	\$1,600.00
Bulk Acid Truck	=	\$750.00
Bulk Mileage: 4.05/miles	=	\$160.00
1000 Bulk Acid: 3.25/gallon	=	\$3250.00
Additions	=	\$684.50
Fuel Surcharge: 10%	=	\$280.50
2 Vacuum Trucks: \$145.00/load	=	\$290.00
Environmental & Safety	=	<u>\$75.00</u>
Total Costs	=	\$7,254.50

MI Test

Tanker Truck: 2 ½ hrs x \$165.00	=	\$412.50
Vacuum Truck: 2 ½ hrs x \$145.00	=	\$290.00
Pickup: 1 truck x \$60.00	=	\$60.00
Travel: 1 hr x \$45.00/man	=	\$90.00
Fuel Surcharge: 10%	=	<u>\$70.00</u>
Total Costs	=	\$922.50

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
Total Costs	=	\$810.00

Total Costs = \$12,627.00

**Friday
September 23, 2022**

55°F – Clear – Slight wind from the East
Began operations @ 8:00 am. Tripped 2 3/8", 4.7#/ft, J55, 8rd, with 4 1/2" scraper to 3373' KB. Added 10' tubing sub and cleaned to 3383 KB. Dropped standing valve and pressured tubing to 500#/s. Slow leak. Pressure testing tubing to 1000#/s. Could not find hole. Ran 45 joints, ran 24 joints and ran 12 joints would hold 1000#/s and slowly leak off. Ran 2 more joints would not hold. Ran 83 joints into hole. Shut down operation for night. Did not find tubing leak. Shut down operations @ 4:00 pm.

Total Rig Hours: 8 hrs x \$260.00	=	\$2080.00
Daily Pickup: 2 hrs @ \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$208.00
Environmental and Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Redress 4 1/2" AD-1	=	\$500.00
4 1/2" Scraper	=	\$150.00
3 7/8" Bit on Scraper	=	\$200.00
Trailer	=	\$100.00
Pipe Dope	=	<u>\$25.00</u>
Total Costs	=	\$4,053.00

1 day Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Costs \$4,863.00

**Tuesday
September 27, 2022**

82°F – Clear – Wind from South 8 -10 mph
Tripping in hole and pressuring tubing to find leak. Pressured to 2000#/s and Held OK. Added 2 joints and pressured to 2000#/s. Slow leak. Found leak on the 100th joint. Very small leak. Could not find without pressure on tubing. Tripped 2 3/8" x 4.7#/ft, J55 with 4'6" packer. Fished standing valve with sand line. Tubing string as follows. Replace 110 joint was 31.70' with a new joint of 31.60'.

1 – 4 1/2" AD-1 Packer	=	2.50'
1 – 2 3/8" Seating Nipple	=	1.10'

107 joints 2 3/8", 4.7#/ft, J55 8rd tubing	=	3366.26'
---	----------	-----------------

Total String = 3369.86 Gr

$$3.0' \text{ KB} = \frac{3.0'}{3372.86 \text{ KB}}$$

Filled the backside with produced H2O. Ran MIT on well as follows

MIT Test
Began @ 4:32 pm

<u>Time</u>	<u>Pressure</u>	<u>Time Sch</u>
4:32 pm	360#/s	0
4:37 pm	360#/s	4:37 5 minutes
4:42 pm	360#/s	4:42 10 minutes
4:47 pm	360#/s	4:47 15 minutes

MIT Passed

Tuesday
September 27, 2022

83°F – Sunny – 5 -10 mph from SW
Passed MIT test. Shut down operations @ 5:00 pm

Total Rig Hours: 9hrs x \$260.00	=	\$2,340.00
Daily Pickup: 2 trucks x \$60.00	=	\$120.00
Pickup Travel: 2 hrs x \$45.00/man	=	\$270.00
Fuel Surcharge: 10%	=	\$249.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Water Truck: 2 hrs x \$75.00	=	\$150.00
Pipe Dope	=	\$25.00
Redress 4 ½” AD-1 (new rubber, shewing and labor)	=	<u>\$200.00</u>
Total Costs	=	\$3,704.50

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Cost = \$4,514.50

Wednesday
September 28, 2022

56°F – Sunny – Slight wind @ 5-10 mph from S
Began operations @ 8:00 am. Circulating hole with fresh water and corrosion inhibitor. Set 4 ½” x 2 3/8” AD-1 with 12,000#/s over string weight. Test MIT and lost a few pounds. Pulled 22,000#/s over string weight. Ran MIT test for State Inspector Gary Klotz

<u>Time</u>	<u>Pressure</u>	<u>Elapsed Time</u>
9:56 am	378#/s	0
10:01 am	375#/s	5 min
10:06 am	375#/s	10 min

10:11 am 375#/s 15 min

Passed MIT @ 10:11 am. Passed by State of MT
Inspector Gary Klotz. Rigged down Liquid Gold Well
Service. Moved rig to yard. Shut down operations @
11:00 am

Total Rig Hours: 3 hrs x \$260.00	=	\$780.00
Daily Pickup: 2 hrs x \$60.00	=	\$120.00
Rig Travel: 3 ½ hrs x \$45.00/man	=	\$785.00
Fuel Surcharge: 10%	=	\$158.00
Environmental & Safety	=	\$50.00
Supervisor/Tool Pusher	=	\$350.00
Water Truck: 2 hrs x \$75.00	=	<u>\$150.00</u>
Total Costs	=	\$393.00

Consulting: \$1500/2	=	\$750.00
Mileage: 60 miles x \$1.00	=	<u>\$60.00</u>
		\$810.00

Total Costs	=	\$3,203.00
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Total Workover Costs	=	\$66,885.00
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CHANGE OF OPERATOR RECORD

JODY FIELD 34-1
29N, 6W, Sec. 34: SESW
API #073-21830

TO: Mountain View Energy, Inc.
FROM: Altamont Oil & Gas, Inc.
DATE: August 17, 2010

RECEIVED

Form No. 4 R 4-85

FEB - 5 2009

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

(SUBMIT IN TRIPLICATE)

TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

MONTANA BOARD OF OIL
& GAS OWNERS. BILLINGS

LOCATE WELL CORRECTLY

		34	

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease JODY FIELD Well No. #34-1

Address PO BOX 488 - CUT BANK MT 59427 Field (or Area) WIDL CAT

The well is located 330 ft. from (S) line and 2310 ft. from (W) line of Sec. 34

Sec. 34; T. 29N; R. 6W; County PONDERA; Elevation 4071' GL
(D.F., R.B. or G.L.)

Commenced drilling APRIL 30, 2008; Completed MAY 6, 2008

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL Signed PATRICK M. MONTALBAN
(oil well, gas well, dry hole)

API# 25-073 - 21830 Title PRESIDENT & CEO

Date DECEMBER 31, 2008

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From <u>3428'</u> to <u>3432'</u> Water	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____
From _____ to _____	From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	674.94'	0	674.94'	175 Sacks	Class G Cement
4-1/2"	10.5#/ft	J55	ST&C	3539.71'	674.94'	3535.71'	100 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations

COMPLETION RECORD

Rotary tools were used from 0 to 3540' 3543

Cable tools were used from _____ to _____

Total depth 3540 ft.; Plugged back to _____ T.D.; Open hole from _____ to _____
3543

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
3428'	3432'	3-1/8" HSD - 17 Shots				
3440'	3442'	3-1/8" HSD - 9 Shots				
3442'	3446'	3-1/8" HSD - 17 Shots				

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from MADISON (pool) formation.

Swab tested 2 to 3 percent oil cut
I.P. _____ barrels of oil per _____ hours (pumping or flowing)

_____ Mcf of gas per _____ hours.
_____ barrels of water per _____ hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
	NONE							

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
Platform Express		
Compensated Neutron	675'	3535'
Three Detector		
Density	675'	3535'

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

RECEIVED

JAN -7 2009

**MONTANA BOARD OF OIL
& GAS COMB. BILLINGS**

Electric Log Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1780	+2296
Blackleaf Bentonite Marker	1820	+2256
Blackleaf Sandstone	1826	+2250
Base Fish Scales	--	--
1 st Bow Island	1878	+2198
2 nd Bow Island	2030	+2046
3 rd Bow Island	2132	+1944
4 th Bow Island "A"	2376	+1700
4 th Bow Island "B"	2423	+1653
Dakota	2544	+1532
Kootenai	2586	+1490
Sunburst	3081	+995
<u>Jurassic</u>		
Morrison	3152	+924
Swift	3186	+890
Swift Shale	3274	+802
Rierdon(Ellis Shale)	3327	+749
Sawtooth	3404	+672
<u>Mississippian</u>		
Madison(Sun River Dolomite)	3428	+648
<u>Total Depth:</u>	3543	+533

FORM NO. 22 R7/99

SUBMIT IN QUADRUPPLICATE TO:

ARM 36.22.307
ARM 36.22.601**MONTANA BOARD OF OIL AND GAS CONSERVATION**
2535 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102Lease Name:
JODY FIELD #34-1Lease Type (Private/State/Federal):
PRIVATEWell Number:
34-1

Unit Agreement Name:

RECEIVED
APR 14 2008
MONTANA BOARD OF OIL & GAS CONSERVATION, BILLINGS

Application for Permit

To: Drill Deepen Re-enter
Oil Gas Other

Operator: ALTAMONT OIL & GAS, INC

Address PO BOX 488

City CUT BANK State MT ZIP 59427

Telephone Number (406) 873-9000

Surface Location of Well (quarter-quarter section and footage measurements)

SESW-SECTION 34-T29N-R6W
(330' FSL x 2310' FWL)

Field Name or Wildcat:

WILDCAT

Objective Formation(s):

BOW ISLAND, SUNBURST & MADISON

Section, Township, and Range:

SECTION 34-T29N, R6W

County:

PONDERA

(If directionally drilled, show both surface and bottom hole locations above)

Proposed total depth 3,450'	Formation at total depth MADISON/SUN RIVER	Elevation (indicate GL or KB) 4071' GL
Size and description of drilling/spacing unit 40 ACRES (SESW)	API number of another well on this lease (if any)	Anticipated spud date

Hole size	Casing size	Weight/foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
8-3/4"	7"	17#/ft	J55	650'	245 sx	Class G
6-1/4"	4-1/2"	9.5#/ft	J55	3,450'	100 sx	Class G

Describe Proposed Operations:

Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.

Altamont Oil & Gas, Inc proposes to drill this well to test for oil and or gas in the Bow Island, Sunburst & Madison formations. No DST's or cores are planned. Surface casing will be cemented from surface to approximately 650' ensuring good returns to surface. The well will be drilled with air and drilling mud from casing point to TD. Open hole logs will be run from surface to TD. Production zones will be perforated & tested. Blowout equipment will be as indicated on the attached exhibit and will be tested at regular intervals.

BOARD USE ONLY

Approved (date) APR 21 2008 Permit Fee \$2500 / \$5000
By Steve P. Stank Check Number 10003 / 11160
Title CHIEF FIELD INSPECTOR Permit Expires OCT 21 2008
Permit Number 26562

The undersigned hereby certifies that the information contained on this application is true and correct:

Signed (Agent) Patrick M. MontalbanTitle President & CEODate 4/9/2008THIS PERMIT IS SUBJECT TO THE
CONDITIONS OF APPROVAL
STATED ON THE BACKAPI Number 25- 073 - 21830

Samples Required: NONE ALL FROM _____ feet to _____ feet
Core chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:
Montana Board of Oil and Gas Conservation
2525 St. Johns Avenue
Billings, MT 59102

SUPPLEMENTAL INFORMATION

Note: Additional information or attachments may be required by Rule or by special request.

- X 1. Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
- X 2. Attach an 8½ x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a ½ mile radius of the well.
- X 3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut /fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor.) Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications. N/A
5. Describe the proposed plan for the treatment and/or disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
N/A
6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:
- No additional permits needed
 - Stream crossing permit (apply through county conservation district)
 - Air quality permit (apply through Montana Department of Environmental Quality)
 - Water discharge permit (apply through Montana Department of Environmental Quality)
 - Water use permit (apply through Montana Department of Natural Resources and Conservation)
 - Solid waste disposal permit (apply through Montana Department of Environmental Quality)
 - State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
 - Federal drilling permit (specify agency)
 - Other federal, state, county, or local permit or authorization: (specify type) _____

NOTICES:

1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

WARNING: Failure to comply with conditions of approval may void this permit.

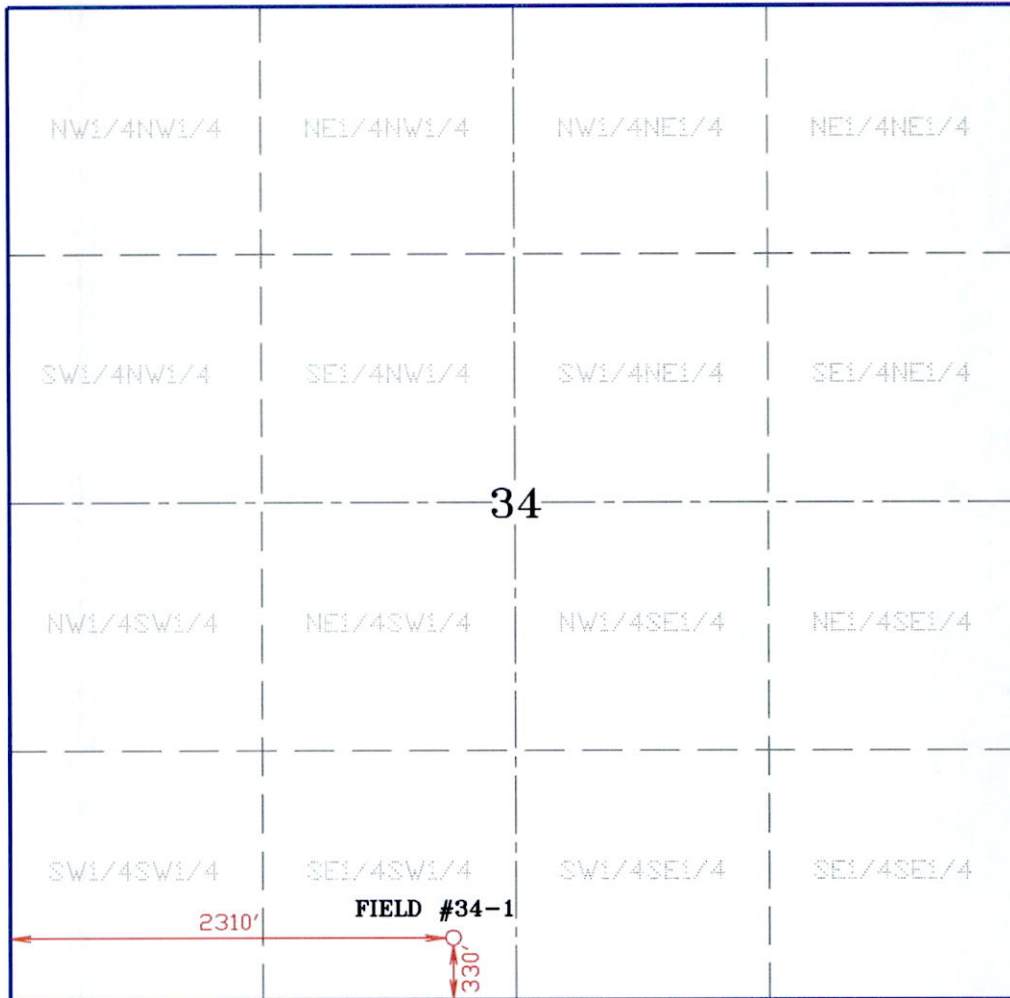
RECEIVED

WELL LOCATION

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA
330' FSL X 2310' FWL
ELEVATION BEFORE GRADING: 4071'

APR 14 2008

MONTANA BOARD OF OIL
& GAS COMB. BILLINGS



T29N R6W

ELEVATION BEFORE GRADING: 4071'
BASIS - NAVD 29

GEOGRAPHIC COORDINATES:
48°13'21.9" N 112°22'16.1" W (NAD 83 BASIS)

BASE POSITION FOR GEOGRAPHIC COORDINATES:
48°12'38.97587" N 112°22'44.76679" W (NAD 83 BASIS)
(NGS CONTROL POINT CONE, THIRD ORDER)

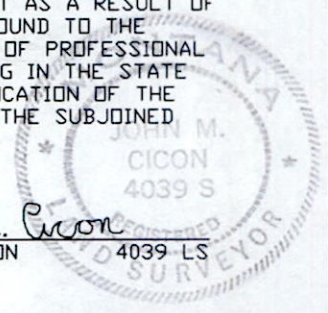
LAND USE: CULTIVATION (CRP)

NO ATTEMPT HAS BEEN MADE BY THE SURVEYOR TO LOCATE UNDERGROUND STRUCTURES OR BURIED UTILITIES, AND APPROPRIATE AGENCIES AND SURFACE LANDOWNERS MUST BE CONTACTED FOR FIELD LOCATION OF ANY UNDERGROUND STRUCTURES OR BURIED UTILITIES BEFORE ANY CONSTRUCTION COMMENCES. CALL 1-800-424-5555 BEFORE ANY CONSTRUCTION COMMENCES.

NOTE: SUBDIVISION LINES AND GOVERNMENT LOT BOUNDARIES ARE SHOWN FOR DEPICTIVE PURPOSES ONLY AND SHOULD NOT BE USED FOR SCALING OR LOCATION PURPOSES.

ON THE BASIS OF MY KNOWLEDGE, INFORMATION AND BELIEF, I CERTIFY THAT AS A RESULT OF A SURVEY MADE ON THE GROUND TO THE NORMAL STANDARD OF CARE OF PROFESSIONAL LAND SURVEYORS PRACTICING IN THE STATE OF MONTANA, I FIND THE LOCATION OF THE FIELD #34-1 AS SHOWN ON THE SUBJOINED DRAWING.

John M. Cicon
JOHN M. CICON 4039-LS



REQUESTED BY: ALTAMONT OIL & GAS, INC.
P.O. BOX 488
CUT BANK, MONTANA 59427

SCALE 1"=1000'

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.

02-21-08

CICON AND ASSOCIATES
BOX 541
CHESTER, MONTANA 59522

JOB NO. 08-010

DRAWING NO. 08010ALTASIG.DWG

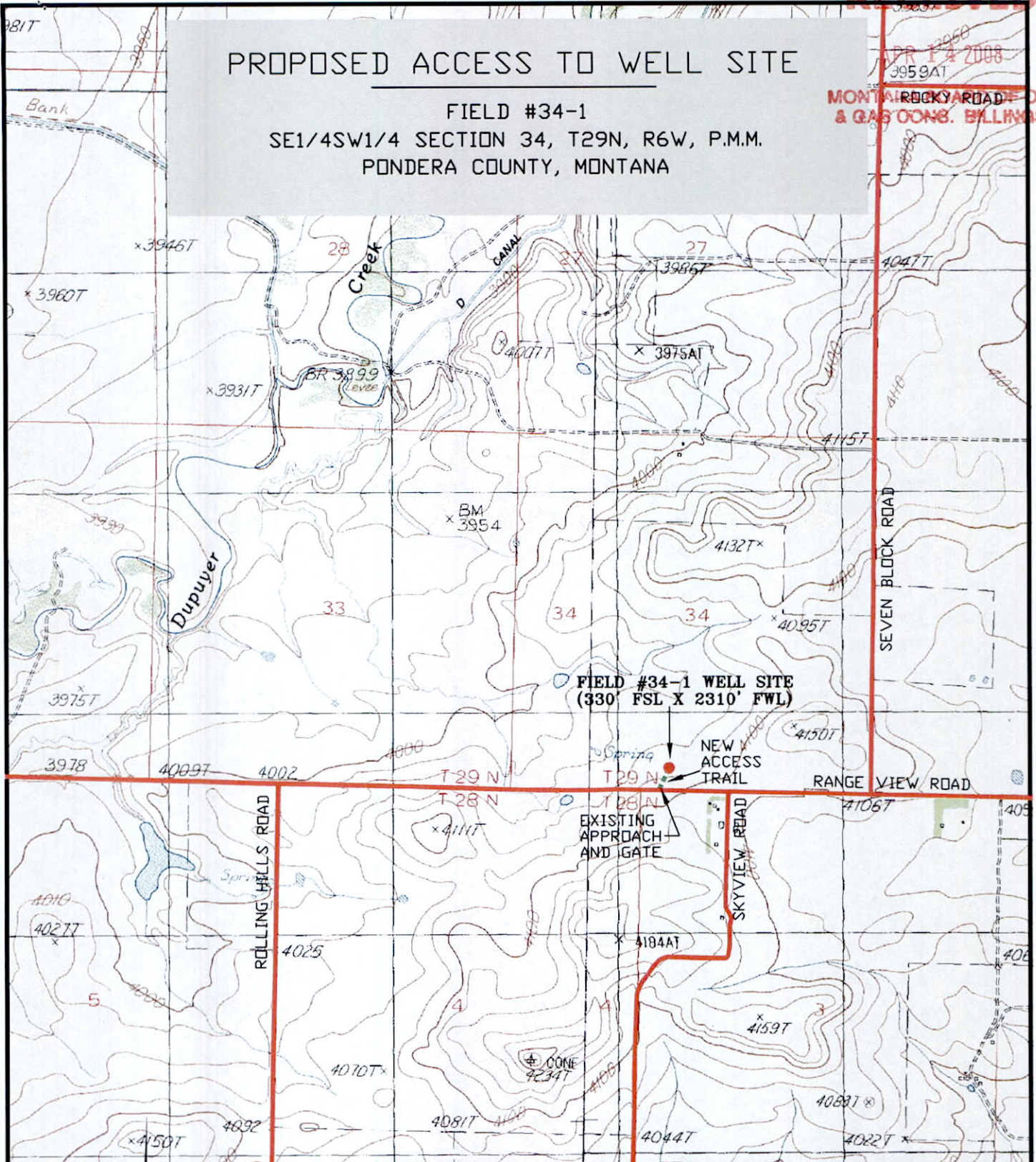
SHEET 1 OF 3

RECEIVED

PROPOSED ACCESS TO WELL SITE

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
PONDERA COUNTY, MONTANA

APR 14 2008
MONTANA ROCKY MOUNTAIN OIL & GAS CONS. BILLINGS




REQUESTED BY: ALTAMONT OIL & GAS, INC.
P.O. BOX 488
CUT BANK, MONTANA 59427

SCALE 1"=2000'

FIELD #34-1
SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.

02-21-08


CICON AND ASSOCIATES
 BOX 541
 CHESTER, MONTANA 59522

JOB NO. 08-010

SCALE 1" = 2000'

DRAWING NO. 08010TOPD.DWG

PAGE 3 OF 3

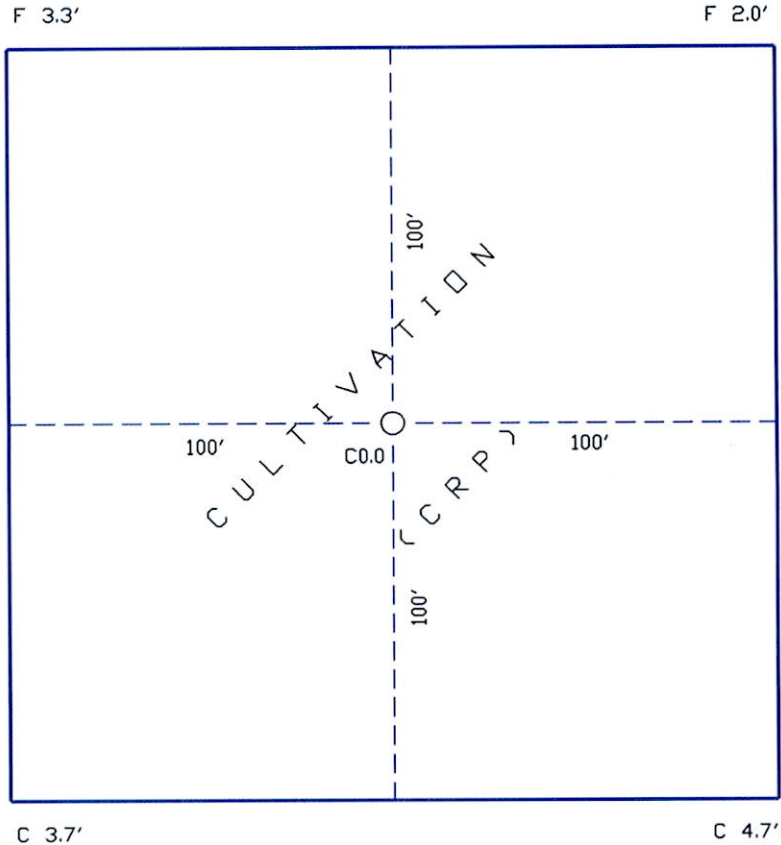
RIG PAD SITE

FIELD #34-1
 SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.
 PONDERA COUNTY, MONTANA

RECEIVED

APR 14 2008

**MONTANA BOARD OF OIL
 & GAS COMB. BILLINGS**

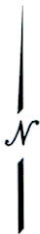


GENERAL CUTS AND FILLS OF PROPOSED RIG PAD


LAND USE: CULTIVATION (CRP)

ELEVATION OF LOCATION BEFORE GRADING: 4071'
 BASIS OF ELEVATIONS: NAVD 29

NOTE:
 CUTS AND FILLS NOTED ARE FOR PURPOSES OF DESCRIBING
 THE GENERAL TOPOGRAPHY OF THE PROPOSED RIG PAD AND
 ARE NOT INTENDED FOR CALCULATION OF DIRTWORK QUANTITIES
 OR OTHER CALCULATIONS.



SCALE 1" = 50'

REQUESTED BY: ALTAMONT OIL & GAS, INC. P.O. BOX 488 CUT BANK, MONTANA 59427	SCALE 1"=50'
FIELD #34-1 SE1/4SW1/4 SECTION 34, T29N, R6W, P.M.M.	02-21-08
 CICON AND ASSOCIATES BOX 541 CHESTER, MONTANA 59522	JOB NO. 08-010
	SHEET 2 OF 3

DRAWING NO. 08010CDN.DWG

RECEIVED

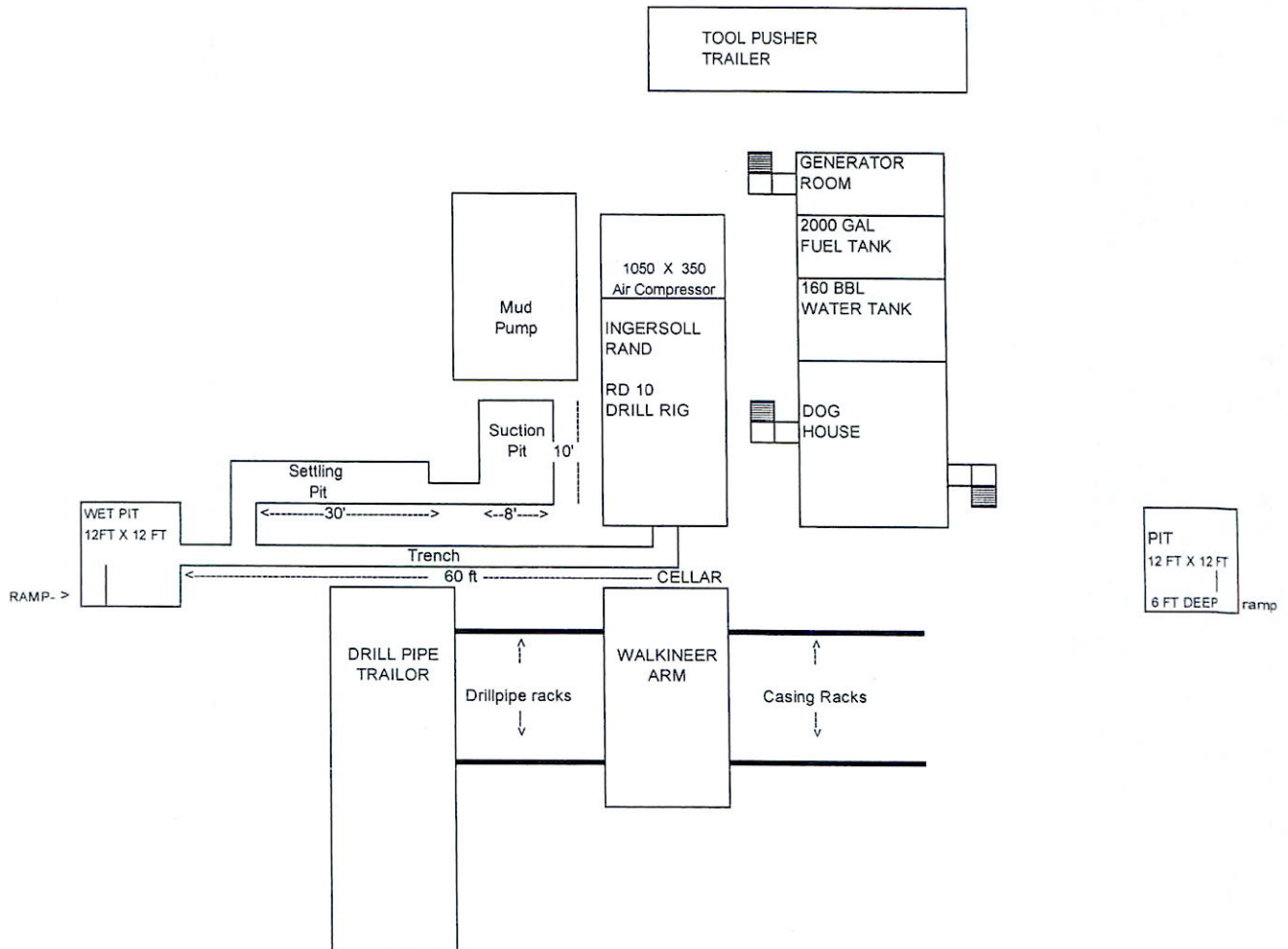
APR 14 2008

MONTANA BOARD OF OIL
& GAS CONSR. BILLINGS

LOCATION LAYOUT

Gasco Drilling LLC

P.O. Box 963 Shelby, Mt 59474 Phone (406) 434-3603 Fax (406) 434-3863



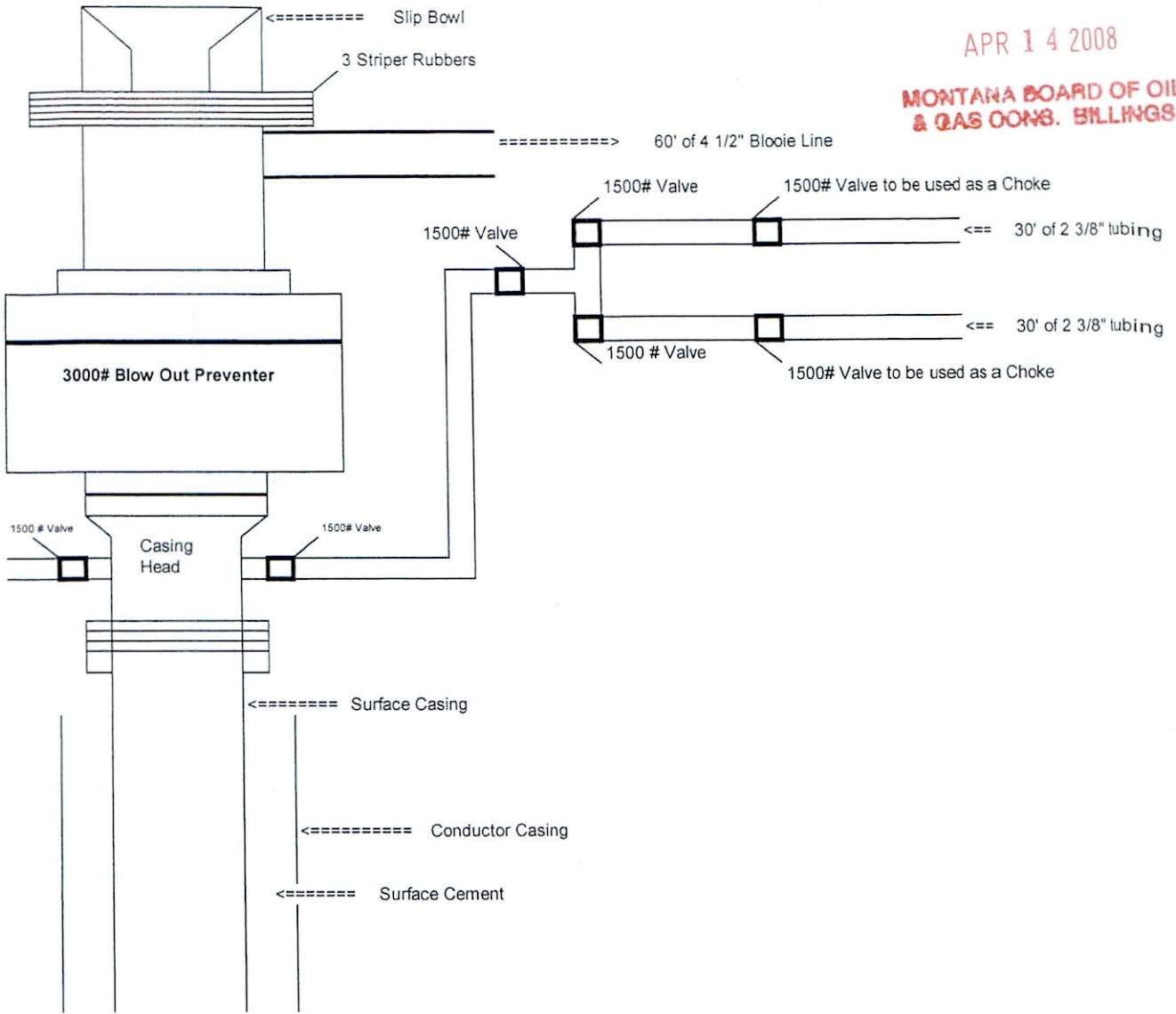
DIMENSIONS OF LOCATION: 200 X 200

SETTLING PIT IS 6' WIDE BY 45' LONG . SUCTION PIT 8' WIDE BY 10' LONG

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONS. BILLINGS



BOP STACK

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MAY 28 2004

ALTAMONT OIL & GAS, INC

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APR 14 2008

REGAN OFFSHORE INTERNATIONAL, INC.

Torrance, Calif.

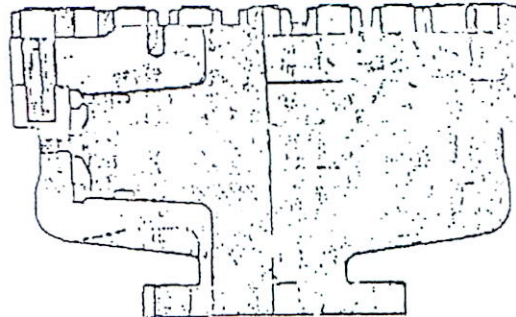
MONTANA BOARD OF OIL & GAS CONG. BILLINGS

REGAN BLOWOUT PREVENTERS

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 2000 PSI working pressure

DESIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
 - b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore. The packer will seal on open hole at full working pressure.
- The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



SPECIFICATIONS

Nominal Size	Test Pressure (PSI)	DIMENSIONS (IN.)			Weight (LBS.)	End Flanges (1)	O/RK (Line Connect)	Stab Outlet
		Outside Diameter	Thru Bore	Overall Height				
6	1000	21 1/4	21 1/4	21 1/4	1300	None	None	
8	1000	27 1/4	27 1/4	27 1/4	1550	None	2" L.P.	
10	1000	33 1/4	33 1/4	33 1/4	2075	None	None	
12	1000	39 1/4	39 1/4	39 1/4	2800	None	2" L.P.	

(1) Bottom Flange holes specified for use with either 2000 W. 2-LB or API-605 Center. (1) 1/2" can be used with 2000 W. 2-LB API 605. Test Press. minimum allowed for 2000 psi API 605 design unless otherwise specified.

B.O.P. SPECIFICATIONS

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE
City CUT BANK	State MT	Zip Code 59427
Telephone 406-873-2235		Fax 406-873-2835
Well Number: 34-1		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE
Township, Range, and Section: SECTION 34-T29N-R6W		County: PONDERA
API Number: <u>25</u> <u>073</u> <u>21830</u> State County Well	Well Type (oil, gas, injection, other): OIL	

Indicate below with an X the nature of this notice, report, or other data:

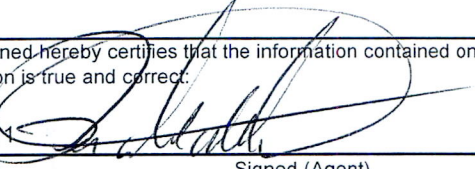
Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) <u>CONVERT TO INJECTION WELL</u>	<input checked="" type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:
Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

SEE
STIPULATIONS
ON BACK

BOARD USE ONLY	
Approved <u>AUG 11 2011</u>	Date
Original Signed By George Hudak, UIC Director	
Name	Title

The undersigned hereby certifies that the information contained on this application is true and correct.

6/21/2011 

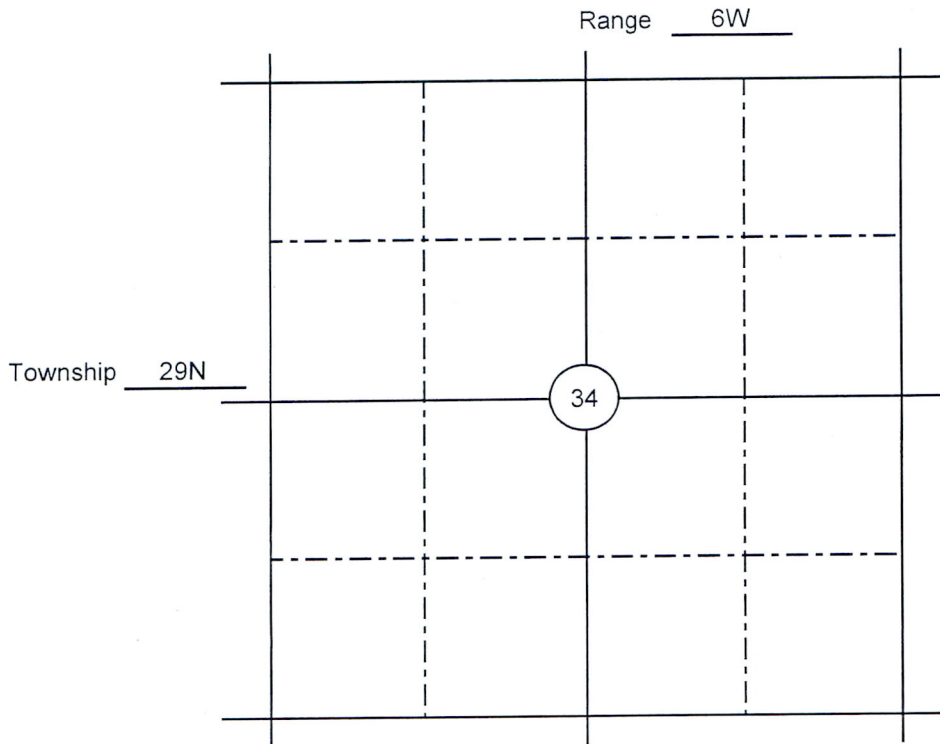
Date Signed (Agent)
Patrick M. Montalban, President & CEO
Print Name and Title

Telephone: (406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

- Injection well bond required before injecting.
- MIT required before injecting.
- Set packer 3328 ft. or deeper
- Injection pressure limited to 1,019 psig.
- An aquifer exemption must be approved by EPA before injecting. (sent to EPA 7-28-11).

Failure to comply with the conditions of approval may void this permit.

RECEIVED

JUN - 6 2011

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD	
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE	
City CUT BANK	State MT	Zip Code 59427	Well Number: 34-1
Telephone 406-873-2235	Fax 406-873-2835		Unit Agreement Name:
Location of well (1/4-1/4 section and footage measurements): SESESW-SECTION 34-T29N-R6W (330' FSL - 2310' FWL)		Field Name or Wildcat: LONEMAN COULEE	
API Number: 25 073 21830 State County Well		Well Type (oil, gas, injection, other): OIL	
		Township, Range, and Section: SECTION 34-T29N-R6W	
		County: PONDERA	

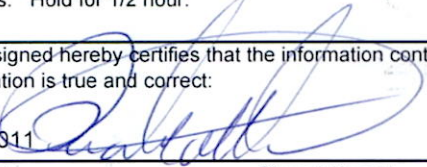
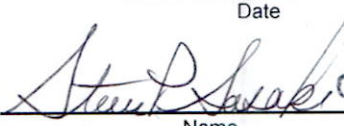
Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input checked="" type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input checked="" type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>

Describe Proposed or Completed Operations:
Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

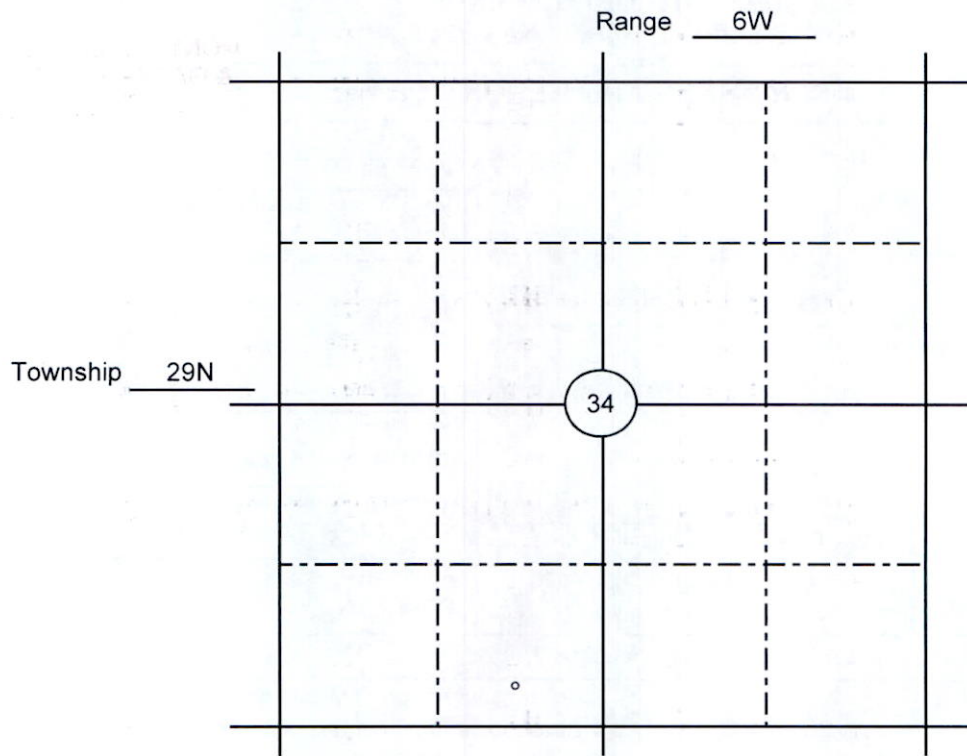
Move in and rig up. Dig drill hole to swab test. Perforate from 3448'-3452' and swab test for 4 hours. Additional perforations:
3452'-3460'
3460'-3466'
3470'-3480'
3480'-3490'
3490'-3496'

Rig up Liquid Gold Well Service and acidize well with 1,000 gallons of 28% HCl.
Run 4-1/2" packer and tubing in hole. Set packer at 3400'. Test packer to 1000 pounds. Hold for 1/2 hour.

BOARD USE ONLY		The undersigned hereby certifies that the information contained on this application is true and correct:	
Approved <u>JUN 06 2011</u>	Date	5/23/2011	
	CHIEF FIELD INSPECTOR	Date	Signed (Agent)
Name	Title	Patrick M. Montalban, President & CEO	
		Print Name and Title	
		Telephone:	(406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.
Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

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MAY - 5 2008

MONTANA BOARD OF OIL
& GAS COMS. BILLINGS

SPUD INFORMATION

WELL NAME: Jody Field 34-1

API #: 25-073-21830

LOCATION: S 34 T29N 6W SE SW
(Twp-Rge-Sec: 1/4 1/4)

SPUD TIME: 11:30 Am Actual

DATE: 4-30-08

DRILLING COMPANY: Gasco

RIG #: # 7

CALLER'S NAME: Patrick Montalban

COMPANY NAME: Altamont Oil + Gas, Inc

OTHER: _____

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Altamont Oil & Gas, Inc.
Well Name/Number: Jody Field 34-1
Location: SE SW Section 34 T29N R6W
County: Pondera MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 4 to 5 days drilling time.

Unusually deep drilling (high horsepower rig): No, 3450' TD

Possible H₂S gas production: Yes

In/near Class I air quality area: No

Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

Air quality permit (AQB review)

Gas plants/pipelines available for sour gas

Special equipment/procedures requirements

Other: _____

Comments: No special concerns – using small rig to drill to 3450' TD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system, air, air mist.

High water table: No

Surface drainage leads to live water: No, closest drainages are some unnamed ephemeral tributary drainages to Dupuyer Creek, about 3/8 of a mile to the west and 1/2 mile to the northwest from this location.

Water well contamination: No, closest water wells are about 3/4 of a mile to the north and south of this location and these wells are 207' and 90' in depth. Surface casing will be drilled with air and/or freshwater mud to 650' and steel surface casing set and cemented to surface from 650'. Small spring located on topographic map, about 1/8 of a mile to the northwest from this location.

Porous/permeable soils: No, sandy bentonitic soils.

Class I stream drainage: No

Mitigation:

Lined reserve pit

Adequate surface casing

Berms/dykes, re-routed drainage

Closed mud system

Off-site disposal of solids/liquids (in approved facility)

Other: _____

Comments: 650' of surface casing will be set and cemented to surface adequate to protect freshwater zones. Also, fresh water mud systems or air to be used for drilling surface hole.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No, no stream crossings.

High erosion potential: No, small cut, up to 4.7' and small fill, up to 3.3', required.

Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite: No, 200'X200' location size required.

Damage to improvements: No, surface use is cultivated field (CRP).

Conflict with existing land use/values: Slight

Mitigation

Avoid improvements (topographic tolerance)

Exception location requested

Stockpile topsoil

Stream Crossing Permit (other agency review)

Reclaim unused part of wellsite if productive

Special construction methods to enhance reclamation

Other _____

Comments: Access will be over existing county road, Barrett FLDS. A short road will be constructed, about 300' into this location. Drill cuttings will be buried in the unlined cuttings pit. Drilling fluids will be allowed to evaporate in the pits. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Closest residence buildings about 3/8 of a mile to the east of this location.

Possibility of H2S: Yes

Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time.

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: No concerns

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: Lake Frances about 7.5 miles to the northeast.

Creation of new access to wildlife habitat: None identified.

Conflict with game range/refuge management: None identified.

Threatened or endangered Species: None identified.

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: _____

Comments: Private surface lands. No concerns

Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites: None identified, private surface.

Mitigation

avoidance (topographic tolerance, location exception)

other agency review (SHPO, DSL, federal agencies)

Other: _____

Comments: Private surface. No concerns.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns.

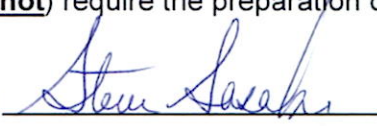
Remarks or Special Concerns for this site

Well is a 3450' Madison Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No, significant impacts expected, some short term impacts are expected, but should be able to mitigate these short term impacts.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): Steven Sasaki 

(title:) Chief Field Inspector

Date: April 15, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website

(Name and Agency)

Pondera County water wells

(subject discussed)

April 15, 2008

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

AFFIDAVIT OF PUBLICATION
STATE OF MONTANA,
County of Lewis & Clark,

RECEIVED

APR - 9 2008

**MONTANA BOARD OF OIL
& GAS CONSERVATION. BILLINGS**

Beverly Allison

Being duly sworn, deposes and says:

That she is the principal clerk of the Independent Record a newspaper of general circulation published daily in the City of Helena, in the County of Lewis & Clark, State of Montana, and has charge of the advertisement thereof:

That the Oil & Gas - Jody Fields #34-1

a true copy of which is hereto annexed, was published in said newspaper on the following dates: viz.: April 5, 2008

making in all 1 publication(s).

Beverly G Allison

Subscribed and sworn to before me this 5 day of April, 2008.

Rose Marie Farr

NOTARY PUBLIC for the State of Montana
Printed Name: Rose Marie Farr
Residing at Helena, Montana
My commission expires 8-15-2010

(NOTARIAL SEAL)

**BEFORE THE BOARD OF OIL AND GAS
CONSERVATION
OF THE STATE OF MONTANA NOTICE OF
INTENTION TO APPLY
FOR PERMIT TO DRILL
OIL AND GAS WELL**

In the Matter of the application of
ALTAMONT OIL & GAS, INC
for a Permit to Drill an oil and gas well.

1. PO Box 488
Cut Bank, Montana 59427
2. Jody Fields #34-1
SE/4SW/4 - Section 34-T29N-R6W
(330' FSL x 2310' FWL)
Pondera County, Montana
3. Total Depth Proposed to be Drilled:
3,450'

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE. OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY; THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL; AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
April 5, 2008

Affidavit of Publication

RECEIVED

APR 14 2008

MONTANA BOARD OF OIL & GAS CONSERVATION BILLINGS

STATE OF MONTANA)

County of Pondera) ss.

John H. Lee

John H Lee

being duly sworn upon his oath says: That he is the Publisher of "The Independent-Observer," a weekly newspaper of general circulation, published weekly at Conrad, in the County of Pondera, State of Montana.

That the notice hereunto attached was published in the said "Independent-Observer" once each week for one successive weeks.

That the first publication of said notice was on the 10 day of April, 2008.

That the last publication of said notice was on the day of n/a, 20.....

That the said notice was published in the regular and entire issue of every said "Independent-Observer" during the period and time of said publication, and in the newspaper proper, and not in a supplement.

John H. Lee
Title: Publisher

Sworn to and subscribed before me this 10 day of April, 2008
Nancy Zelenka

Nancy Zelenka

Notary Public for the State of Montana, residing at Conrad, Montana. My commission expires

June 1, 2010

LEGAL NOTICE

BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

In the Matter of the application of)
) NOTICE OF)
) INTENTION TO APPLY)
) FOR PERMIT TO DRILL)
) ALTAMONT OIL & GAS, INC)
) OIL AND GAS WELL)
) for a Permit to Drill an oil and gas well.)
) 1. PO Box 488)
) Cut Bank, Montana 59427)
) 2. Jody Fields #34-1)
) SE/4SW/4 - Section 34-T29N R6W)
) (330' FSL x 2310' FWL))
) Pondera County, Montana)
) 3. Total Proposed Depth: 3,450'

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Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
Published April 10, 2008

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APR 11 2008

ALTAMONT OIL & GAS, INC

GaSCO Drilling LLC											
P.O. BOX 636		Shelby MT 58474		Phone (406) 434-3023			Fax (406) 434-3883				
Daily Field Report											
OPERATOR: AltaMont Oil & Gas Inc.				Depth at report time		Feet (24 Hours)		Weather:			
Lease and well name: Jody Field 34-1				3540		288		42 high clouds			
County:	State:	Field Name:		Last casing (OD & Depth)		Date	REPORT #	Reported By:			
Pondera	Montana	Wildcat Pondera		7" at 874.94'		5/5/2008	5	Bud Postma			
Activity at Report Time: Conditioning hole for logs											
From	To	Hours	Operations in Sequence								
07:00	17:15	10.25	Drill ahead with mud to 3415'								
17:15	18:15	1.00	Replace air hose on pump clutch								
18:15	02:30	8.25	Drill ahead with mud to 3540'								
02:30	03:30	1.00	Raise viscosity and condition hole								
03:30	04:00	0.50	Run survey 1 degree								
04:00	07:00	3.00	Short trip 1100'								
TOTAL HOURS		24.00									
CUMMED HOURS		120.00									
Mud Record:											
TIME	DEPTH	WT	VISC.	PH	WATER LOSS	COMMENTS					
09:30	3291	8.3	32	9.0	7.0						
12:30	3340	8.3	35	9.0	6.4						
18:00	3400	8.4	34	9.0	6.4						
20:00	3438	8.8	40	9.0	8.0						
24:00	3500	8.7	41	9.0	6.0						
04:00	3540	8.8	80	9.0	5.4	RAISE VISCOSITY FOR LOGS					
Bit Record:											
Bit #	Size	W.O.B.	R.P.M.	Make	Type	IN	OUT	JT. SZ	Ser. No.	Daily Costs	
2	6 1/4	20000	70	REED	SL51H	1673	3540	OPEN	PN3484	WOB	\$0.00
										WOC	N/A
										STANDBY	\$0.00
										DR-LOGS	\$0.00
										FOOTAGE COSTS	\$12300.00
Mud and Additives					Other Materials					DAY-WORK COSTS	
35 Sacks Max-Gel					2 Loads Water					Perable Tails:	\$20.00
2 Sacks Poly Pac UL					Survey at 3540' 1 degree					Garbage	\$20.00
					Pason with gas analyzer at \$225.00					Gring Product	\$850.30
										Water and heating?	\$400.00
											\$0.00
										DAILY COST	\$13599.30
											\$0.00
SUMMARY										TOTAL	\$13599.30
Drill ahead with mud to 3540'. Build viscosity and condition hole. Run survey 1 degree. Short trip 1100' out. Conditioning hole at 07:00.											

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MAY - 5 2008

MONTANA BOARD OF OIL & GAS CONSB. BILLINGS

LIQUID GOLD WELL SERVICE, INC.

RECEIVED

Cement Work Order
Phone 406-873-2966
Fax 406-873-2997

P.O. Box 757
Cut Bank, MT 59427

JUN - 9 2008

Invoice # 2047

MONTANA BOARD OF OIL & GAS CONS. BILLINGS

Company Altamont
Address _____
City/State _____
Lease _____ Well Joly Fields 34-1
Long String _____ Surface Pipe X P & A _____ Camera _____

Date 5-1-08
Sec. 34 Twn. 29N Rng. 6W
County Pondera
Field Wildcat

API # 25-073-21830

Hole Size <u>8 3/4"</u>	Casing <u>2 1/2" 675' + 9.5'</u>	Plug #1 <u>675'</u>	to <u>0'</u>	Sacs <u>175 ST</u>
Drill Pipe _____	Casing _____	Plug #2 _____	to _____	Sacs _____
Tubing _____	Casing _____	Plug #3 _____	to _____	Sacs _____
TD <u>679'</u> PBT _____	Casing _____	Plug #4 _____	to _____	Sacs _____
ECP <u>44.6'</u>	Casing _____	Plug #5 _____	to _____	Sacs _____

Comments: Travel to location, rig up, pump 20 bbls poly water ahead, pump 175 ST cement, displace plug with 26.55 bbls water wash up and rig down
11 bbls cement returns Plug down @ 1:15 pm

Quantity	Description	Unit	Disc.	Total
<u>01</u>	Cement Pump Truck			
<u>40</u>	Pump Truck Mileage			
15 <u>01</u>	Bulk Cement Truck			
<u>40</u> 100000	Bulk Truck Mileage X 9.4 ton			
<u>175.5X</u>	Bulk Cement			
<u>87.5#</u>	Cellophane			
<u>1gal.</u>	Polymer			
<u>493.5#</u>	CaCl			
<u>01</u>	Pick Up Charge X 40 miles			
<u>01</u>	Fuel surcharge 15% (PT + BT)			

Cementer

Tom Noland, Adam, Steven

Date 5-1-08

Agent of Owner or Contractor

[Signature]

Date _____

LIQUID GOLD WELL SERVICE, INC.

Cement Work Order
 Phone 406-873-2966
 Fax 406-873-2997

RECEIVED

P.O. Box 757
 Cut Bank, MT 59427

JUN - 9 2008

Invoice # **2048**

MONTANA BOARD OF OIL
 & GAS CONG. BILLINGS

Company Altamont
 Address _____
 City/State _____
 Lease _____ Well # 34-1
 Long String X Surface Pipe _____ P & A _____

Date 5-6-08
 Sec. 34 Twn. 29N Rng. 6W
 County Pondera
 Field Jody Fields
 Camera _____

Hole Size	Casing	Plug #1	to	Sacs
<u>6 1/4"</u>	<u>4 1/2-3539.74'</u>	<u>3539.74'</u>	<u>2457.55'</u>	<u>1005X</u>
Drill Pipe	Casing	Plug #2	to	Sacs
Tubing	Casing	Plug #3	to	Sacs
TD <u>3540'</u> PBTB	Casing	Plug #4	to	Sacs
ECP <u>Flapper</u>	Casing	Plug #5	to	Sacs

Comments: Travel to location, rig up, take on water pump 10 bbls. Fresh water ahead, pump 1005x cement @ 10% salt and 10% fine mica, displace plug with 5697 bbls. water, pressure plug to 1000 # for 5 min. release pressure, wash up and rig down.

Plug down @ 1:30 AM

Quantity	Description	Unit	Disc.	Total
01	Cement Pump Truck			
40	Pump Truck Mileage			
01	Bulk Cement Truck			
40	Bulk Truck Mileage <u>4.7 ton</u>			
1005X	Bulk Cement			
0	Cellophane			
0	Polymer			
0	CaCl			
01	Pick Up Charge			
940 #	salt			
940 #	Mica			
1082'	cementing over 1500'			
01	Fuel surcharge 15% (PT+BT)			

Cementer

Todd Motenda, Terrance, John

Date 5-6-08

Agent of Owner or Contractor

[Signature]

Date _____

RECEIVED

MAY 28 2008

Date 5-16-08 (406)652-4400



7069 Niehenka Ave. Billings, Montana 59101

MONTANA BOARD OF OIL & GAS CONG. BILLINGS

INVOICE # 14557 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Powdera LEGAL SE SE 1/4 - 28 N - 6 W

ELEVATION 4071 KB ELEVATION 4076 DRILLER TD 3540 FIELD Wildcat

COMPETITION PERSONNEL J Seifert, J Brown UNIT # 1115 Out Bank Mt

COMPANY Altamont Oil Boas, Inc BY [Signature]

ADDRESS Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION
4501		
SERVICE CHARGE: Truck		
SERVICE CHARGE:		
Mileage Logging unit @ per mile		
Pickup @ per mile		
Mast/crane @ per mile		

Casing	Lb/Ft	From	To
7"	17#	Surface	675'
4.5"	9.5#	Surface	3540'

Service 4536 Simultaneous Cement Ray
 Depth 3496'
 Oper. min operation chg

Fluid Water Level (surf) 1270'
 Competition measurements are from (check One):
 KB GL Prev. Logs

Service 4538 Acoustic Cement Bond Log
 Depth 3496'
 Oper. min operation chg

CWS TD 3496 Driller TD 3540
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

Service 4650 Perforate w/ 3/8" HPSlick
 Depth 3432'
 Oper. min shot charge

PERFORATIONS

Intervals	SPF	Total #
3428-3432 (4)	4	17

Service 4645 Gun Barrel 4'

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

TOTAL PERFORATIONS: 17 Titan 19 gram Prospected

Service _____
 Depth _____
 Oper. _____

AFE #: APC#25-073-21830

Service _____
 Depth _____
 Oper. _____

Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

4592	Pressure Control / Pack Off	
	subtotal	
	discount	
	subtotal	

MATERIALS

4518	EHPS Charge	
4504	Mileage 80 miles	
	field total	

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Witnessed by: Patrick Montalban
 Competition WS Starbuck Seifert
 (Please Print)

Date 5-29-08 (406)652-4400

COMPETITION
WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

Shelby

INVOICE # 14562 LEASE/LOCATION Jody Field 34-1
 STATE Montana COUNTY Becker LEGAL SESESW 34-29N-6W
 ELEVATION 407' KB ELEVATION 4076 DRILLER TD 3540 FIELD Whitecat
 COMPETITION PERSONNEL S. Seifert, J Brown, A Brown UNIT # 1113 Cut Bank MA
 COMPANY Attamont Oil & Gas BY [Signature]

ADDRESS Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM		INFORMATION			
<u>4501</u>	SERVICE CHARGE: <u>Truck</u>	Casing	Lb/Ft	From	To
	SERVICE CHARGE:	<u>7"</u>	<u>17#</u>	<u>Surface</u>	<u>675</u>
	Mileage Logging unit @ _____ per mile	<u>4.5"</u>	<u>9.5#</u>	<u>Surface</u>	<u>3540'</u>
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4650 Perforate w/ 3 1/2 HPS Stick
 Depth 3446'
 Oper. 17 shot @ min shot chg
4645 Gun Barrel 4'

Fluid 0.7 Water Level (surf) 1130'
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 CWS TD 3496 Driller TD 3540
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

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JUN 04 2008

Service	Depth	Oper.	PERFORATIONS		SPF	Total #
			Intervals			
			<u>MONTANA BOARD OF OIL & GAS CONS. BILLINGS</u>	<u>3442-3446</u>	<u>(4)</u>	<u>4</u>

TOTAL PERFORATIONS: 17 Titan 19 gram Prospector

AFE #: API# 25-073-21830

Remarks:

EQUIPMENT, RENTALS, PERSONNEL

4592 Pressure Control / Pack Off
 subtotal
 discount
 subtotal

MATERIALS

4504 Mileage 80 miles
4518 EHBS Charge
 field total

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Witnessed by: Patrick Montalpan
 Competition WS Stacy Seifert
 (Please Print)

Date 5-21-08 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 14560 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Pondera LEGAL SESE SW 34-29N-6W

ELEVATION 4071' KB ELEVATION 4076' DRILLER TD 3540 FIELD Witelcat

COMPETITION PERSONNEL S Seifert, [REDACTED], A Brown J Brown #115, CutBank MT

COMPANY Altamont Oil & Gas Inc BY [Signature]

ADDRESS _____
Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
<u>4501</u>	SERVICE CHARGE: <u>Truck</u>	Casing	Lb/Ft	From	To
	SERVICE CHARGE:	<u>7"</u>	<u>17#</u>	<u>Surface</u>	<u>675'</u>
	Mileage Logging unit @ _____ per mile	<u>4.5"</u>	<u>9.5#</u>	<u>Surface</u>	<u>3540'</u>
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service	<u>4650</u>	<u>Perforate W3 1/2 HP Slick</u>
Depth		<u>3442 @ .18' / ft depth chg</u>
Oper.		<u>9 shot @ min shot chg</u>
Service	<u>4645</u>	<u>Gun Barrel 2 ft.</u>
Depth		
Oper.		
Service		
Depth		
Oper.		
Service		
Depth		
Oper.		
Service		
Depth		
Oper.		
Service		
Depth		
Oper.		

Fluid _____ Level (surf) _____
Competition measurements are from (check One):
KB _____ GL _____ Prev. Logs
DWS TD 3496' Driller TD _____
Plug model _____ Size _____ Depth _____
Packer _____ Size _____ Depth _____

PERFORATIONS

	Intervals	SPF	Total #
Oper.	<u>3440-3442 (2)</u>	<u>4</u>	<u>9</u>
Service			
Depth			
Oper.			
Service			
Depth			
Oper.			
Service			
Depth			
Oper.			

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MAY 29 2008

MONTANA BOARD OF OIL & GAS CONG. BILLINGS

TOTAL PERFORATIONS: 9 Titan 19 gram Prospects

AFE #: API# 25-073-21830
Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

<u>4592</u>	<u>Pressure Control Pack off</u>
	subtotal
	discount
	subtotal

MATERIALS

<u>4504</u>	<u>Mileage 80</u>
<u>4516</u>	<u>EHBS Charge</u>
	field total

Sub total
Other
TOTAL CHARGES
Sales Tax
TOTAL CHARGES

Witnessed by: Patrick Montalban
Competition WS Starbuck Seifert
(Please Print)

MAY 28 2008

Date 5-16-08 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave. Billings, Montana 59101

MONTANA BOARD OF OIL & GAS COMB. BILLINGS

INVOICE # 14557 LEASE/LOCATION Jody Field 34-1

STATE Montana COUNTY Powdera LEGAL SE 5E SW 4 - 28N - 6W

ELEVATION 4071 KB ELEVATION 4076 DRILLER TD 3540 FIELD Wildcat

COMPETITION PERSONNEL J Seifert, J Brown UNIT# 1115 Cut Bank Mt

COMPANY Altamont Oil & Gas, Inc BY [Signature]

ADDRESS Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
4501	SERVICE CHARGE: Truck	Casing	Lb/Ft	From	To
	SERVICE CHARGE:	7"	17#	Surface	675'
	Mileage Logging unit @ _____ per mile	4.5"	9.5#	Surface	3540'
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4536 Simultaneous Gamma Ray
 Depth 3496'
 Oper. min operation chg

Service 4538 Acoustic Cement Bond Log
 Depth 3496'
 Oper. min operation chg

Service 4650 Perforate w/ 3/8" HPSlick
 Depth 3432'
 Oper. min shot charge

4645 Gun Barrel 4'

Service
 Depth
 Oper.

Service To: (exploratory) cost for
 Depth Altamont Field 34-1
 Oper. (Ray Cement Bond Log - 10' work)

Service
 Depth
 Oper.

EQUIPMENT, RENTALS, PERSONNEL

4592 Pressure Control / Rock Off
 subtotal
 discount
 subtotal

MATERIALS

4518 EHS Charge
 4504 Mileage 80 miles
 field total

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Fluid Water Level (surf) 1270'
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs
 CWS TD 3496 Driller TD 3540
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

PERFORATIONS

Intervals	SPF	Total #
3428-3432 (4)	4	17

TOTAL PERFORATIONS: 17 Titan 19 gram Prospects

AFE #: AFE#25-073-21830

Remarks:

Witnessed by: Patrick Montalban
 Competition WS Starbuck Seifert
 (Please Print)

Date 2-JUNE-2011 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 20367 LEASE/LOCATION JODY FIELD #34-1

STATE MONTANA COUNTY PONDERA LEGAL SE-SE-SW 4-28N-6W

ELEVATION 4071' KB ELEVATION 4076' DRILLER TD 3540' FIELD WILDCAT

COMPETITION PERSONNEL J Brown / S Seifert / M Fugle UNIT # 27 / CUT BANK, MT

COMPANY MOUNTAIN VIEW ENERGY, INC. BY [Signature]

ADDRESS _____

Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
		Casing	Lb/Ft	From	To
<u>4501</u>	SERVICE CHARGE: <u>TRUCK</u>				
	SERVICE CHARGE:				
	Logging unit <u>90</u> @ <u>4.00</u> per mile				
	Pickup @ _____ per mile				
	Mast/crane @ _____ per mile				

Service 4650 PERFORATE w/ 3 1/8 HP Suck Gun
 Depth 3493' th chg
 Oper. 166 SHOTS

Service 4645 Gun Barrel chg 45'
 Service 4592 PRESSURE CONTROL:
 Depth PACK OFF HEAD / FLOW TEE
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Service _____
 Depth _____
 Oper. _____

Fluid oil/water Level (surf) 1100'
 Competition measurements are from (check One):
 KB _____ GL _____ Prev. Logs X
 CWS TD 3494' Driller TD 3540'
 Plug model _____ Size _____ Depth _____
 Packer _____ Size _____ Depth _____

PERFORATIONS			
Intervals	SPF	Total #	
<u>3448-3452 (4')</u>	<u>4</u>	<u>16</u>	
<u>3490-3493 (3')</u>	<u>4</u>	<u>13</u>	
<u>3480-3490 (10')</u>	<u>4</u>	<u>40</u>	
<u>3470-3480 (10')</u>	<u>4</u>	<u>40</u>	
<u>3452-3466 (14')</u>	<u>4</u>	<u>57</u>	

TOTAL PERFORATIONS: 166 TITAN 196m
"PROSPECTOR"
 AFE #:
API # 25-073-21830
 Remarks: _____

EQUIPMENT, RENTALS, PERSONNEL

SUBTOTAL
 DISCOUNT <
 SUBTOTAL:

MATERIALS

4518 Enviro, HEALTH SAFETY chg
FIELD TOTAL:

[Signature]
 Int. Competition Costs
 for Now - Jody Fields 34-1

Sub total
 Other
 TOTAL CHARGES
 Sales Tax
 TOTAL CHARGES

Witnessed by: JOSEPH MONTALBAN
 Competition WS [Signature]
 KH
 6-6-11 (Signature)

RECEIVED
 JUN - 8 2011
 MONTANA BOARD OF OIL & GAS CONS. BILLINGS

CE
 6-6-11
 PC

RECEIVED

SEP 06 2011

MONTANA BOARD OF OIL
& GAS CONS. BILLINGS

Submit In Quadruplicate To:

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

SUNDRY NOTICES AND REPORT OF WELLS

Operator MOUNTAIN VIEW ENERGY, INC		Lease Name: JODY FIELD
Address PO BOX 200		Type (Private/State/Federal/Tribal/Allotted): PRIVATE
City CUT BANK	State MT	Zip Code 59427
Telephone 406-873-2235	Fax 406-873-2835	
Location of well (1/4-1/4 section and footage measurements): NENW SW-SECTION 34-T29N-R6W (2310' FSL - 990' FWL) <i>NWSW</i>		Well Number: 34-2
API Number: 25 073 21838 State County Well		Unit Agreement Name:
Well Type (oil, gas, injection, other): INJECTION		Field Name or Wildcat: LONEMAN COULEE
		Township, Range, and Section: SECTION 34-T29N-R6W
		County: PONDERA

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>
	<input type="checkbox"/>	CONVERT TO INJECTION WELL	<input checked="" type="checkbox"/>

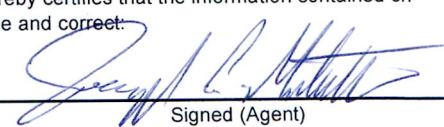
Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

Well hooked up and commenced injection operations on January 21, 2011.

BOARD USE ONLY	
Approved	<u>SEP 06 2011</u> Date
Original Signed By George Hudak, UIC Director	
_____ Name	_____ Title

The undersigned hereby certifies that the information contained on this application is true and correct:

9/1/2011 
Date Signed (Agent)

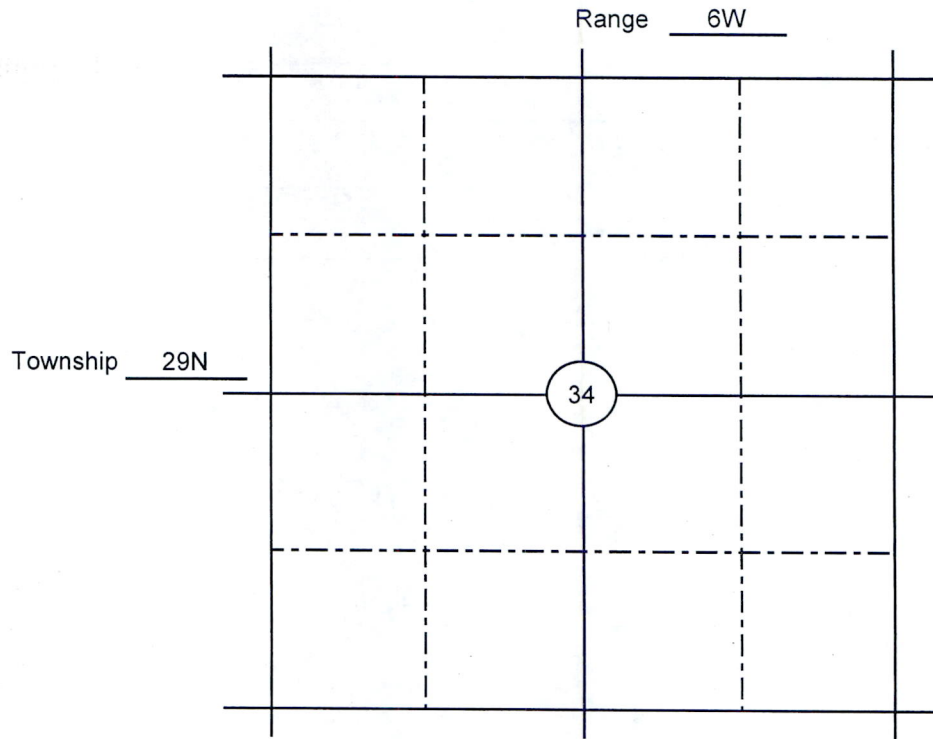
Joseph P. Montalban, V.P. of Operations
Print Name and Title

Telephone: (406) 873-2235

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

Privileged and Confidential

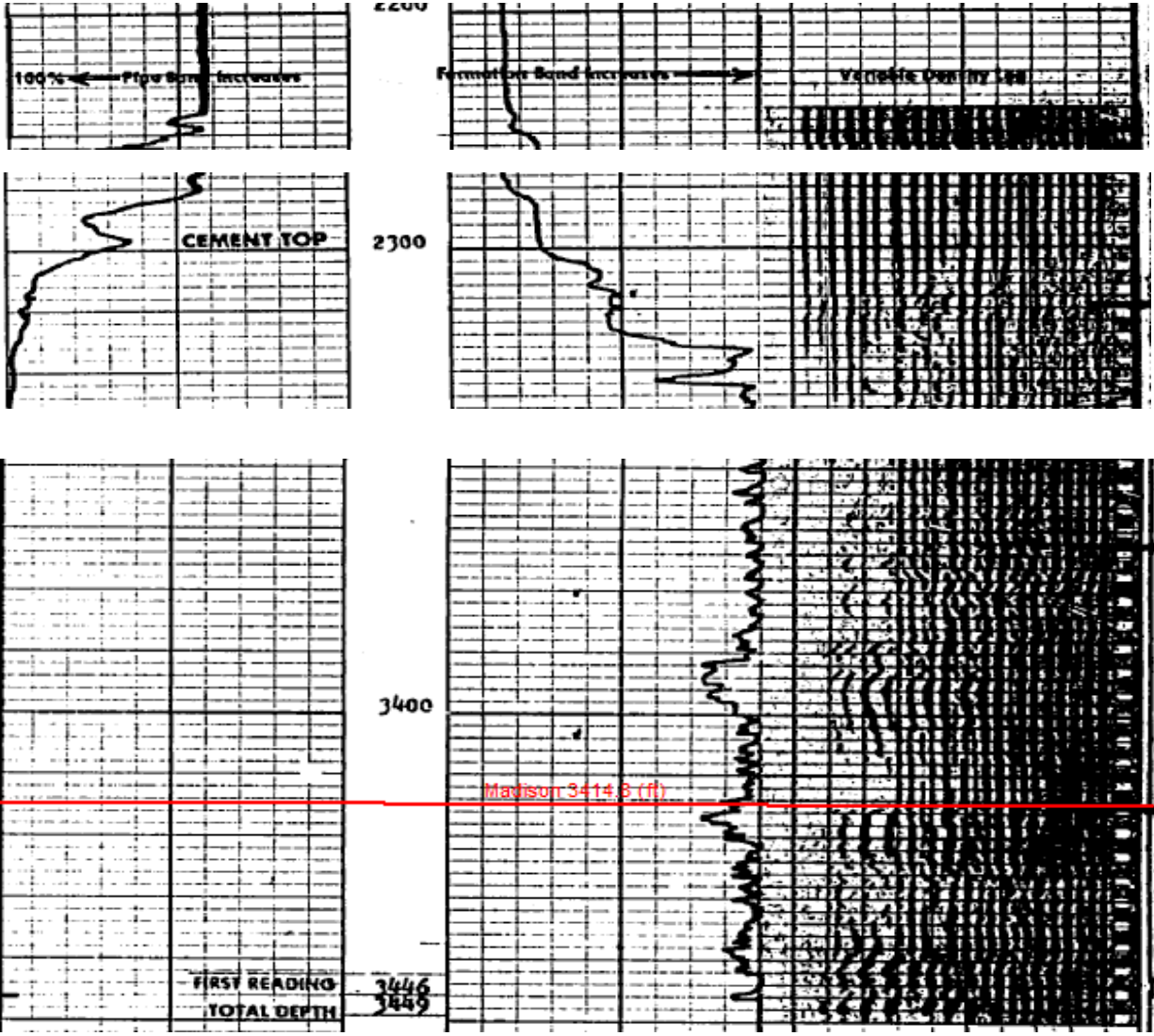
EXHIBIT B

Well Records for Jody Field 14-34 and Jody Field 4-1A

PRAIRIE

Seismogram Cement Bond Log

FILE NO.	COMPANY	OXY PETROLEUM, INC.	
WELL	#1-34 FIELD	APR 28 1982	
FIELD	Wildcat	GROGHER SPRINGS	
COUNTY	PONDERA	STATE MONTANA	
LOCATION:	1700 FSL 1300 FV L	OTHER SERVICES	
	SEC 34 TWP 29N R0E 6W	GAMA RAY PERFORATE.	
MEASUREMENT DATE	C.O.L.	ELEV.	4033
LOG MEASURED FROM	TWELVE	FT. ABOVE PERM DATUM	
DRILLING MEASURED FROM	K.B.	ELEV.	K.B. 4035
DATE	APRIL 28, 1982	R.P.I. #	073-21609
RUN NO.	710	SHOT	No. of
TYPE LOG	CEMENT BOND/VDL	DENSITY	SHOT
DEPTH - DRILLER	3185		
DEPTH - LOGGER	3109		
LOGGED INTER.	3106		
TOP LOGGED INTER.	2160		
FLUID IN HOLE	WATER		
LEVEL	300		
TRUCK NO.	BYE		
OPER. RIG TIME	1 1/2 HOURS		
RECORDED BY	BROWN		
WITNESSED BY	PAYNE		



LOCATE WELL CORRECTLY

		34	
		o	

(SUBMIT IN TRIPLICATE)
TO

BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
BILLINGS OR SHELBY

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013

COMPLETION REPORT

Company ALTAMONT OIL & GAS, INC Lease FIELD Well No. 14-34

Address PO BOX 488 - CUT BANK MT 59427 Field (or Area) WILDCAT

The well is located 990' ft. from (S) line and 1650' ft. from (W) line of Sec. 34

Sec. 34; T. 29N; R. 6W; County PONDERA; Elevation 4049' GL
(D.F., R.B. or G.L.)

Commenced drilling August 27, 2008, ~~1998~~; Completed August 30, 2008, ~~1998~~

Write the API# or the well name of another well on this lease if one exists _____

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as OIL WELL
(oil well, gas well, dry hole)

Signed *Patrick M. Montalban*
PATRICK M. MONTALBAN

API# 25-073-21740

Title PRESIDENT & CEO

Date SEPTEMBER 14, 2009

IMPORTANT ZONES OF POROSITY

(denote oil by O, gas by G, water by W; state formation if known)

From 3403 to 3415 - O & W From _____ to _____
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____
 From _____ to _____ From _____ to _____

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of Cement	Cut and Pulled from
7"	17#/ft	LTD	ST&C	161' KB	0	161'	50 Sacks	Class G Cement 3% CaCl
4-1/2"	9.5#/ft	API	ST&C	3405' KB	161'	3405'	50 Sacks	Class G Cement

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
2-3/8"	4.7#/ft	J55	ST&C	108 jts	None

COMPLETION RECORD

Rotary tools were used from 0 to 3,415'

Cable tools were used from _____ to _____

Total depth 3,415 ft.; Plugged back to _____ T.D.; Open hole from 3405 to 3,415'

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
		None			None	

(If P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Madison/Sun River (pool) formation.

I.P. 5 barrels of oil per 24 hours (pumping or flowing)

5 Mcf of gas per 24 hours, or 5 barrels of water per 24 hours, or _____ % W.C.

Initial 10-day average production _____ (bbl./day) (if taken)
 Pressures (if measured): Tubing _____ psi flowing; _____ psi shut-in
 Casing _____ psi flowing; _____ psi shut-in
 Gravity _____ ° API (corrected to 60° F.)

Formation Volume Factor _____ Porosity _____ % Average Connate water _____ %

Type of trap _____

Producing mechanism _____

DRILL STEM TESTS

D.S.T. No.	From	To	Tool Open (Min.)	Shut-In	F.P.	S.I.P.	Recovery	Cushion
		NONE						

CORES

No.	Interval	Recovered
	NONE	

LOG RUNS

Type	From	To
GAMMA RAY CCL LOG		

FORMATION RECORD
(ELECTRIC LOG TOPS)

From	To	FORMATION	Top of Formation
		SEE ATTACHED	

(Use additional sheets where needed to complete description)

Tops based on Kelly Busing Elevation 4054' KB:

Blackleaf	1764	+2290
Blackleaf Bentonite	1802	+2252
1st Bow Island	1862	+2192
2nd Bow Island	2011	+2043
3rd Bow Island	2119	+1935
4th Bow Island "A"	2354	+1700
4th Bow Island "B"	2398	+1656
Dakota	2521	+1533
Kootenai	2564	+1490
Sunburst Horizon	3079	+ 975
Morrison	3116	+ 938
Swift	3164	+ 890
Swift Shale	3237	+ 817
Rierdon	3291	+ 763
Sawtooth	3371	+ 683
Madison	3402	+ 652
Total Depth	3415	+ 639

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 14-34
SESW Section 34-T29N-R6W
(990' FSL – 1650'FWL)
Glacier County, Montana
API No. 25-073-21740

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: August 27, 2008
Completion Date: August 30, 2008
Status: Madison Sun River Dolomite "Wildcat Oil Well Discovery"
Elevation: 4049' GR. 4054' KB.
Total Depth: 3415' Driller
Casing: Ran 4 joints 7", 17#/ft, ltd, 8rd, ST&C, Rge 3 (164.0') set @ 161.0 KB cemented with 50sx Class G cement, 3% Calcium Chloride
Ran 83 joints 4 1/2", 9.5#/ft, 8rd, ST&C, Rge 3 (3412') set @ 3405' KB cemented with 50 sx Class G
Contractor: Sundance Exploration LLC Rig No.5
Type Rig: Ingersoll- Rand (Tophead Drive)
Mud Pump: Oilwell 214P (6" x 14")
Air Compressor: Ingersoll- Rand (1250mmcf 350psi)
Air Program: Surface to 3415'
Mud Program: None
Hole Size: 8 3/4" (0-165') 6 1/4" (165' - 3415')
Size Drill Pipe: 4 1/2" O.D. x 4" I.D. (16.60 #/ft.)
Size Drill Collars: 4 3/4" O.D. x 2 1/8" I.D. (121')
No. Drill Collars: 4 = 121'
Sample Intervals: None
Sample Quality: None
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 3 7/8" hole with air mist from surface to 3415'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

No Logs Run.

Mud Summary

None

Bit Record

No.	Size	Make	Type	Interval	Footage	Hours	Jet Size	Serial No.
1	6 1/4"	HTC	STX-20	0 - 77	77	3.00	open	ER8776
2	3 7/8"	HTC	ER-20	77-3415	3338	18.75	open	none

Daily Activity Summary (Calendar Days)

- August 27,2008 Moved in and Rigged up Sundance Exploration LLC Rig No. 2. Spud 6 ¼" hole at 11:45A.M. Drilled 6 ¼" hole with air mist from 0' to 77' inside 7" surface casing. Drilled 3 7/8" hole with air mist inside the 4 ½" casing. Lower camera inside 7" casing. Trip tubing into the hole and place 2 gallons of 28% Hel inside 4 ½" casing. Lower camera inside 7" casing and concluded 4 ½" casing to be clean.
- August 28,2008 T.D. 77'. Load 4 ½" casing. Unload and strap 4 ½" casing. unload 2 3/8" tubing. Rig up 7" x 4 ½" wellhead. Trip In 4 ½" casing and sting into casing. Pulled 5000#/s on 4 ½" casing and set in slips. Nipple up diverter head. Drilled 3 7/8" hole with air mist from 77' to 2400'.
- August 29,2008 Drilled 3 7/8" hole with air mist from 2400' to 3415'. Total Depth 3415' by operator. Repair rig.
- August 30,2008 T.D. 3415. Start and warm rig. Blow well down and recovered highly oil cut water. Set tubing in slips. Rigged down. Report Ends.



GAMMA RAY - *John*
CCL LOG *Field*

Company Altamont Oil & Gas, Inc.
Well Altamont/Jody Field #14-34
Field Wildcat
County Pondera
State Montana

Company ALTAMONT OIL & GAS, INC.
Well ALTAMONT/JODY FIELD #14-34
Field WILDCAT
County PONDERA
State MONTANA

Location

SEC. 34 TWP. 28N RGE. 6W
990' FSL & 1650' FWL
34N

Other Services

NONE

Permanent Datum GROUND LEVEL Elevation 4033'
Log Measured From FIVE FEET ABOVE PERM. DATUM
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4054'
G.L. 4049'

Date 06-OCTOBER-2008

Perforated Intervals

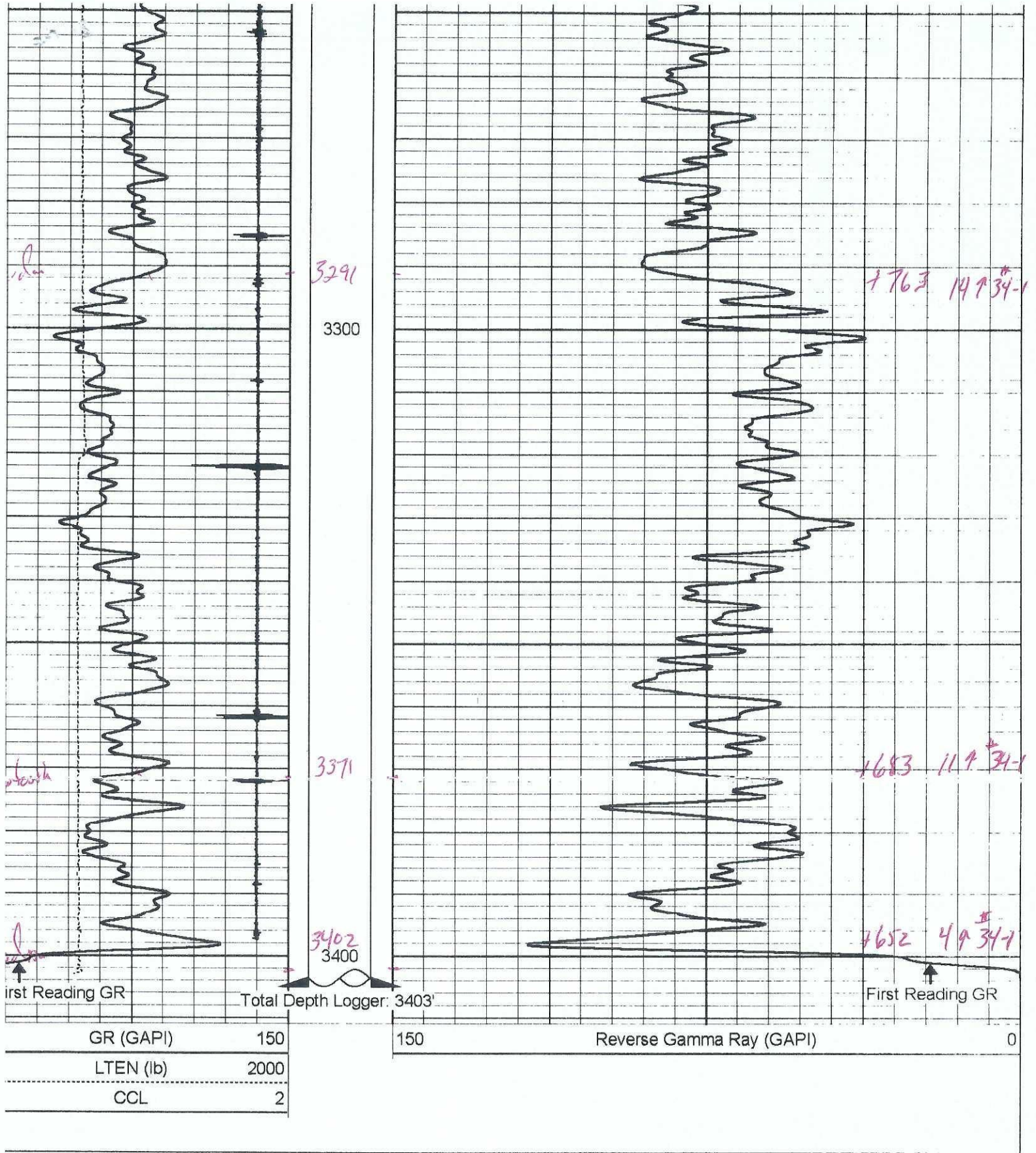
Run Number	ONE	Gun Type			
Log Type	GAMMA RAY/CCL	Size			
Depth - Driller	3415'	From	To	@	
Depth - Logger	3403'	From	To	@	
Bottom Interval	3401'	From	To	@	
Top Interval	1200'	From	To	@	
Fluid in Hole	OIL	From	To	@	
Level	****	From	To	@	
Wellhead PSI	0 PSI	From	To	@	
Equipment No.	1115 / CUT BANK, MT	From	To	@	
Witnessed By	PATRICK MONTALBAN	From	To	@	
Recorded By	JOHN BROWN	Casing Record			
Invoice No.	15637	Size	Weight	From	To
Bitsize #1	6.250"	7.00"	17.0#	Surface	161'
Bitsize #2	3.875"	4.50"	9.5#	Surface	3405'
Cement Time	****				
API Number	25-073-21740				
AFE Number					
Tubing Record					
Other Services					

Interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Measurement Type: Logged From Kelly Bushing Measurement.
Remarks:

THANK YOU FOR CHOOSING COMPETITION WIRELINE SERVICES.

YOUR CREW TODAY HAS BEEN: STARBUCK SEIFERT & AARON BROWN



Repeat Section

Database File: 15637gr.db
 Dataset Pathname: pass1

OPERATIONAL SUMMARY
and
GEOLOGICAL WELL HISTORY

Altamont Oil and Gas Inc.
Altamont/Jody Field No. 4-1A
NENENE Section 4-T28N-R6W
(330' FNL – 380' FEL)
Glacier County, Montana
API No. 25-073-21842

Wildcat

Patrick M. Montalban
Petroleum Geologist
P.O. Box 488
Cut Bank, Montana 59427

Resume

Spud Date: May 18, 2009
Completion Date: May 23, 2009
Status: Madison Sun River Dolomite "Wildcat
Oil Well Discovery"
Elevation: 4070' GR. 4075' KB.
Total Depth: 3442' Driller 3462' Driller (Completion)
Casing: Ran 17 joints 7", 17#/ft, ltd, 8rd, ST&C, Rge 3
(729.17) set @ 726.67 KB cemented with 160sx
Class G cement, 3% Calcium Chloride, 3% Calcium
chloride, 1/2# floccelle.
Ran 85 joints 4 1/2", 10.5#/ft, 8rd, ST&C, Rge 3
(3442.91') set @ 3440.91' KB cemented with
60 sx Class G, 2% CaCO₃
Contractor: GaSco Drilling LLC Rig No.7
Type Rig: Atlas Copco RD20 (Tophead Drive)
Mud Pump: Gardner Denver FXK (6" x 14")
Air Compressor: Atlas Copco (1250mmcf 350psi)
Air Program: Surface to 3442'
Mud Program: 3442
Hole Size: 8 3/4" (0-730') 6 1/4" (730' - 3442')
Size Drill Pipe: 3 1/2" O.D. x 2 1/2" I.D. (13.30 #/ft.)
Size Drill Collars: 4 3/4" O.D. x 2 1/8" I.D. (353') Weight Pipe =
4 1/2" O.D. x 2" I.D. (16.60 #/ft.) (120')
No. Drill Collars: 13 = 354'
Sample Intervals: 30' (1950' - 2310') (2560' - 2980')
10' (1700' - 1950') (2310' - 2560') (2980' - 3442')
Sample Quality: Good
Cores: None
Drill Stem Tests: None

Air Drilling Summary

Drilled 8 3/4" hole with air (mist) from 37' to 730'. Did not show strong flow of water through the drilling of the surface hole. Drilled 6 1/4" hole with air from 730' to 3442'. No gas was encountered. Total depth 3442' by driller with air. Converted to mud drilling program at 3442'.

Sample Distribution

None Required by the Montana Oil and Gas Conservation Commission, 2535 St. Johns Ave., Billings Montana in accordance with Rule No. 229

Logging Summary

No Logs were run.

Mud Summary

Max Gel -17sx

Plat Pac UL - 8 - 5gallons

<u>Bit Record</u>								
<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Interval</u>	<u>Footage</u>	<u>Hours</u>	<u>Jet Size</u>	<u>Serial No.</u>
1	8 3/4"	STC	CH-14	0 - 730	730	18.00	open	225925
2	6 1/4"	HTC	STX-20	730-3442	2712	28.00	open	5123271
3	3 7/8"	Varel	DW531	3442-3462	20	1.0	reg	1016538

Vertical Surveys

<u>Depth</u>	<u>Degrees</u>
251'	1/4*
730'	1/4*
1305'	1/2*
1970'	1/2*
2540'	1/2*
3272'	1/2*

Sample Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996
<u>Jurassic</u>		
Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659
<u>Mississippian</u>		
Madison(Sun River Dolomite)	---	---
<u>Total Depth:</u>	3542	+633

Daily Activity Summary (Calendar Days)

- May 18,2009 Moved in and Rigged up Gasco Drilling LLC Rig No. 7
Spud 8 3/4" hole at 11:00A.M. Drilled 8 3/4" surface hole from 0' to 37'. Drive 9 5/8" casing set @ 16.00' set @ 17'.
Repair upper radiator hose. Nipple up deflector head.
Drilled 8 3/4" surface hole with air mist from 37' to 446'.
- May 19,2009 Drilled 8 3/4" surface hole with air mist from 446 to 730'.
Total Depth 730' by Driller. Condition hole for surface casing. Ran 17 joints 7", 17#/ft, Ltd, 8rd, ST&C, (729.79) set @ 728.79' KB cemented with 160 sacks Class G cement + 3% Calcium Chloride, 1/2#/sack focelle. Good returns to surface. Plug down at 2:00 P.M. W.O.C. Nipple up BOP.
- May 20,2009 Trip in hole with 6 1/4" bit. Clean and dry hole. Drilled cement plug and dry hole. Ran survey. Dry hole. Drilled out @ 2:30A.M..
Drilled 6 1/4" hole with air from 730' to 2881'.
- May 21,2009 Drilled 6 1/4" hole with air from 2881' to 3442'.
Total depth 3442' by driller.
Total depth by driller with air. Did not encounter any moisture.
Converted to drilling mud @ 7:00A.M.
Condition hole for 4 1/2" production casing. Short trip. Condition hole for 4 1/2" production casing. Trip out of hole for 4 1/2" Production casing. Rig up to run production casing.
- May 22, 2009 Ran 85 joints 4 1/2", 9.5#/ft, API., J55, 8rd, ST&C, Rge 3 (3442.91') set @ 3440.91'. Lower viscosity to 40. Cemented Well with 60 sacks Class G cement with 2% calcium chloride. Plug down @ 1:30A.M.. Set 4 1/2" casing in the Slips. Report Ends.
- May 23, 2009 T.D. Nipple up BOP. Pick up 2 3/8" tubing. Tagged plug at 3418'. Mist up to drill out 4 1/2" plug. Drilled 3 7/8" hole with air mist from 3442' to 3460'. Test well, no show of oil or water. Drilled 3 7/8" Hole with air mist from 3460' to 3462'. Shut in for 1 1/2 hr. No show, no oil, no water, no odor. Note Driller Total Depth 3468'. Last 5' run in with no rotation or weight. Rig down.

Lithology

Sample descriptions begin at 1700', in the Cretaceous Colorado. Sample descriptions are not corrected for drill time lag. Formation tops were determined from electric logs. Samples were examined and described wet except for the samples in the Mississippian Madison Sun River Dolomite that were described dry.

SAMPLES CAUGHT IN 10' INTERVAL:

- 1700 – 1710 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, gritty in parts.
- 1710 – 1720 same as above.
- 1720 – 1730 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured to gritty textured, sandy in parts.
- 1730 – 1740 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous. Bentonite, tan, soft, lumpy.
- 1740 – 1750 same as above. Bentonite, tan, white, soft, lumpy.
- 1750 – 1760 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured, micromicaceous.
- 1760 – 1770 same as above.
- 1770 – 1780 Shale, grey, chunky, firm to hard, dense, noncalcareous, earthy textured, micromicaceous.
- 1786 – Sample Top - Blackleaf
- 1780 – 1790 Shale, dk greyish black, chunky, blocky, firm to hard, dense, very calcareous,

many tan specks.

1790 – 1800 Shale as above.

1800 – 1810 Shale, dk grey, chunky, blocky, firm to hard, dense, very calcareous, earthy textured, many tan specks.

1810 – 1820 same as above.

1825 – Sample Top – Blackleaf Bentonite

1820 – 1830 Shale, dk grey, chunky firm, dense, calcareous, earthy textured.

1830 – Sample Top – Blackleaf Sandstone

1830 – 1840 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy, micromicaceous.

1840 – 1850 Shale as above.

1850 – 1860 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone, grey, blocky, hard, dense, noncalcareous, tight.

1860 – 1870 Sandstone, grey, very fine to fine grained, subrounded to subangular, Moderately sorted quartzose, many clear and grey grains,

1870 – 1880 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy textured, many unconsolidated grains in sample pan. Siltstone, grey, blocky, hard, dense, noncalcaeous, tight.

1884 – Sample Top - 1st Bow Island

1880 – 1890 Many unconsolidated grains in sample pan. Sandstone, dk grey, very fine grained, rounded, well sorted quartzose. Bentonite, tan, soft, lumpy.

1890 – 1900 same as above.

1900 – 1910 Siltsone, grey, blocky, hard, dense, noncalcareous, tight

1910 – 1920 Shale, grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Siltstone as above. Unconsolidated grains in sample pan.

1920 – 1930 Bentonite, tan, white, soft, waxy, lumpy, micromicaceous. Shale, dk grey
Chunky, hard, dense, noncalcareous, earthy textured.

1930 – 1940 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured.

1940 – 1950 Bentonite, tan, soft, lumpy. Many unconsolidated grains in sample pan.

Begin 30' Samples

1950 – 1980 Sandstone, grey, very fine grained, rounded, well sorted quartzose, many clear and grey grains, trace glauconite grains.

1980 – 2010 Bentonite, tan, soft, lumpy. Shale, greenish grey, chunky, firm, dense, noncalcareous, gritty textured. Siltstone, greenish grey, blocky, hard, dense noncalcareous, tight.

2026 – Sample Top – 2nd Bow Island

2010 – 2040 Sandstone, grey, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, few black chert grains, few glauconite grains.

2040 – 2070 Shale, chocolate brown, chunky, firm to hard, dense, waxy textured, trace orange zeolites. Bentonite, tan, soft, lumpy

2070 – 2100 Shale, lt green, chunky, firm, dense, noncalcareous, waxy textured. Much Bentonite, tan, soft, lumpy.

2100 – 2130 Sandstone, greenish grey, very fine to medium grained, coarse grained in parts, subrounded to angular, poorly sorted quartzose, many clear grains, trace black chert grains, trace glauconite grains.

2134 – Sample Top – 3rd Bow Island

- 2130 – 2160 Sandstone, brownish white, very fine grained, rounded, well sorted quartzose, many clear and grey grains.
- 2160 – 2190 Shale, black, chunky, firm, dense, noncalcareous, waxy textured.
- 2190 – 2220 Bentonite, tan, soft, lumpy, micromicaeous, Shale, lt green, chunky, Soft, dense, noncalcareous, waxy textured.
- 2220 – 2250 Shale, green, grey, chunky, soft to firm, dense, noncalcareous, earthy to waxy many orange zeolites. Textured. Bentonite, tan, soft, lumpy.
- 2250 – 2280 Bentonite, tan, soft, lumpy. Sandstone, brown, very fine grained, rounded, well sorted quartzose.
- 2280 – 2310 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy to gritty Textured. Bentonite, tan, soft, lumpy.

Resume 10' Samples

- 2310 – 2320 Shale, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2320 – 2330 Bentonite, tan, soft, lumpy. Shale as above.
- 2330 – 2340 Sandstone, dk grey, very fine grained, well sorted, rounded quartzose many unconsolidated grains in sample pan, many clear and grey grains, trace glauconite grains. Bentonite, tan soft, lumpy. Shale, dk grey, chunky firm, dense noncalcareous, gritty textured.
- 2340 – 2350 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 2350 – 2360 same as above.

2367 – Sample Top – 4th Bow Island “A” Sandstone

- 2360 – 2370 Sandstone, grey, very fine to fine, rounded to subrounded, moderately sorted quartzose, noncalcareous, many clear grains, few black chert grains, few glauconite grains.

2370 – 2380 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear grains, many grey grain, few glauconite grains.

2380 – 2390 same as above.

2390 – 2400 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
bentonite, tan, soft, lumpy. Many unconsolidated grains in sample
pan.

2400 – 2410 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured
sandy in parts. Bentonite, tan, soft, lumpy.

2413 – Sample Top – 4th Bow Island “B” Sandstone

2410 – 2420 Sandstone, grey, very fine grained, rounded, well sorted
quartzose, many clear and grey grains, few glauconite grains.

2420 – 2430 same as above becoming slightly coarser grained, very bentonitic.

2430 – 2440 Sandstone, dk grey, very fine grained, rounded to subrounded, well sorted
quartzose, many grey grains, few glauconite grains, bentonitic.

2440 – 2450 Shale, dk grey, chunky, firm, dense, noncalcareous, gritty to sandy
textured. Many unconsolidated grains in sample pan.

2450 – 2460 Shale, grey, chunky, soft to firm, dense, noncalcareous, gritty textured
unconsolidated grains in sample pan.

2460 – 2470 same as above. Bentonite, tan, soft, lumpy.

2470 – 2480 Shale, dk grey, grey, chunky, firm, dense, noncalcareous, earthy textured,
Bentonitic.

2480 – 2490 Shale, grey, chunky, soft to firm, dense, noncalcareous, earthy textured,
Micromicaceous.

- 2490 – 2500 same as above. Many unconsolidated grains in sample pan.
- 2500 – 2510 Shale, grey, dk grey, chunky, firm, dense, noncalcareous, earthy to gritty textured. Bentonite, tan, soft, lumpy.
- 2510 – 2520 Sandstone, grey, very fine grained, rounded, well sorted quartzose
Many clear and grey grains, few glauconite grain, bentonitic.
- 2520 – 2530 Many unconsolidated grains in sample pan. Shale, grey, chunky,
firm, dense, noncalcareous, gritty textured. Sandstone as above.

2539 – Sample Top - Dakota

- 2530 – 2540 Shale, grey, chunky, firm, dense, noncalcareous, earthy textured,
micromicaceous. Bentonite, tan, soft, lumpy.
- 2540 – 2550 Sandstone, lt grey, very fine grained, rounded, well sorted quartzose
many clear grains few grey grains.
- 2550 – 2560 Sandstone, clear, very fine grained, rounded to subangular, well sorted
Quartzose, many clear grains, few grey chert grains, bentonitic.

Resume 30' Samples

2582 – Sample Top - Kootenai

- 2560 – 2590 Sandstone, brown, very fine to medium grained, rounded to subangular
Moderately sorted quartzose, many unconsolidated
grains. Bentonite, tan, soft.
- 2590 – 2620 Shale, grey, chunky, firm, dense, noncalcareous, earthy to
gritty textured.

- 2620 – 2650 Sandstone, grey, very fine to fine grained, rounded to subrounded, well to moderately sorted quartzose, many clear grains, many grey shale inclusions many black chert grains.
- 2650 – 2680 Sandstone, grayish white, very fine to fine grained, rounded to subangular, moderately sorted quartzose, many clear grains, many grey and black grains.
- 2680 – 2710 Shale, brick red, green, lt green, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured.
- 2710 – 2740 Sandstone, green, lt green, very fine grained, rounded, well sorted quartzose many unconsolidated grains, many clear grains, orange shale as above. Shale green, chunky, firm, dense, noncalcareous, gritty textured.
- 2740 – 2770 Shale, grey, chunky, platy, firm, dense, noncalcareous, earthy textured. Bentonite, tan, soft, lumpy.
- 2770 – 2800 Sandstone, green, lt green, very fine to fine, rounded to subrounded, well sorted quartzose, many clear and frosted grains, many glauconite grains.
- 2800 – 2830 Shale, green, chunky, firm, dense, noncalcareous, earthy textured, smooth. shale, grey, chunky, firm, dense, noncalcareous, earthy textured.
- 2830 – 2860 Shale, brick red, maroon, green, grey, chunky, firm, dense, noncalcareous, gritty textured. Bentonite, white, soft waxy.
- 2860 – 2890 Shale, multicolored, green, brick red, grey, reddish brown, maroon, chunky, soft to firm, dense, noncalcareous, earthy textured.
- 2890 – 2920 Sandstone, grey, very fine to fine grained, rounded to subangular, moderately Sorted quartzose, many clear grains, many grey grains, many amber grains, Bentonitic.

- 2920 – 2950 Sandstone, dk brown, very fine grained, rounded, well sorted quartzose, Bentonitic, tan, soft, lumpy.
- 2950 – 2980 Shale, brick red, chunky, soft to firm, dense, noncalcareous, gritty textured. turns sample bag bick red.

Begin 10' Samples

- 2980 – 2990 Shale, brown, brick red, chunky, firm, dense, noncalcareous, earthy to gritty textured.
- 2990 – 3000 Shale, green, chunky, soft to firm, dense, noncalcareous, gritty textured, sandy in parts. Bentonite, tan, soft, lumpy.
- 3000 – 3010 Shale, grey, chunky, platy, soft to firm, dense, noncalcareous, gritty textured.
- 3010 – 3020 Shale, multicolored, green, grey, brick red, brown, reddish brown, maroon, chunky, firm, dense, noncalcareous, earthy textured, mottled in parts.
- 3020 – 3030 Sandstone, grey, very fine grained, rounded to subrounded, well sorted quartzose, many clear grains, many black shale inclusions, trace green grains, trace amber grains.
- 3030 – 3040 Sandstone, grayish white, very fine grained, rounded, well sorted quartzose, many clear grains, trace black and grey shale inclusions, trace amber grains.
- 3040 – 3050 Shale, multicolored, brick red, green, grey, brown, maroon, chunky, soft to firm, dense, mottled, noncalcareous, earthy textured, mottled.
- 3050 – 3060 Shale, brick red, grey, green, chunky, firm, dense, noncalcareous, earthy textured, smooth.
- 3060 – 3070 Shale, lt. grey, chunky, blocky, firm, dense, noncalcareous, waxy textured.

3079 – Sample Top - Sunburst

- 3070 – 3080 Shale, mustard yellow, grey, chunky, firm, dense, noncalcareous, Earthy to gritty textured. Many unconsolidated grains in sample pan, very fine grained.
- 3080 – 3090 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, trace amber grains, few grey chert grains.
- 3090 – 3100 Sandstone, white, clear, very fine to fine grained, rounded to subrounded, well sorted quartzose, many clear grains, few grey chert grains, trace amber grains, bentonitic.
- 3100 – 3110 Shale, green, lt green, chunky, firm, dense, noncalcareous, earthy textured Smooth. Mostly Bentonite, tan, cream, soft, lumpy.
- 3110 – 3120 Shale, dk grey, chunky, blocky, firm, dense, noncalcareous, waxy Textured. Bentonite, white, soft, lumpy.
- 3120 – 3130 Shale, lt. greyish, grey, chunky, firm, dense, noncalcareous, waxy textured. much Bentonite, white, soft, lumpy. Many coarse grained, angular orange grains in sample pan. Many unconsolidated grains in sample pan.

3135 – Sample Top - Morrison

- 3130 – 3140 Sandstone, white, tan, clear, very fine to fine grained, rounded to subrounded well to moderately sorted quartzose, many clear and frothy grains. few grey grains.
- 3140 – 3150 Shale, multicolored, brick red, green, lt green, maroon, grey, "baby poop yellow", chunky, soft to firm, dense, noncalcareous, earthy textured.
- 3150 – 3160 Shale, brick red, reddish brown, trace yellow above, chunky, soft to firm, dense, noncalcareous, earthy textured, Bentonite, white, soft, lumpy.

- 3160 – 3170 Shale, maroon, greenish grey, grey, chunky, soft to firm, dense, Noncalcareous, earthy to waxy textured. Bentonite, white, soft.
- 3170 – 3180 Shale, baby poop yellow, chunky, soft, noncalcareous, earthy textured. Shale, grey, lt grey, chunky, soft firm, dense, noncalcareous, earthy textured.
- 3180 – 3190 Siltstone, brown, chunky, blocky, firm to hard, dense, very calcareous, tight, no shows. Shale, grey, chunky, soft to firm, dense, calcareous, earthy to gritty textured.
- 3190 – 3200 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, earthy to gritty textured, sandy in parts. Limestone, tan, buff, sublithographic, dense, tight, very calcareous.
- 3208 – E Log Top - Swift
- 3200 - 3210 Sandstone, brown, very fine to fine grained, rounded to subrounded, well sorted, quartzose, many clear and dark grains.
- 3210 – 3220 Shale, dk grey, chunky, soft to firm, dense, noncalcareous, gritty Textured. Many very fine grains in sample pan.
- 3220 – 3230 Sandstone, brown, very fine to fine grained, rounded to subangular, well to Moderately sorted quartzose, many clear grains and few grey grains.
- 3230 – 3240 Sandstone as above. Shale, dk grey, chunky, firm, dense, noncalcareous, gritty textured.
- 3240 – 3250 Sandstone, brown, very fine to fine grained, rounded, well sorted quartzose many clear grains. Shale dk grey, chunky, soft to firm, dense, noncalcareous gritty textured.

- 3250 – 3260 same as above.
- 3260 – 3270 Sandstone,brown,very fine grained,rounded,well sorted quartzose many clear and grey grains.
- 3270 – 3280 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3280 – 3290 Shale,grey,chunky,platy,firm,dense,noncalcareous,earthy to gritty textured.
- 3290 – 3300 Shale,grey,chunky,platy,firm,dense,noncalcareous,earthy textured.
- 3300 – 3310 Shale,grey,lt grey,chunky,platy,firm,dense,noncalcareous,earthy Textured.
- 3310 – 3320 Shale,dk grey,chunky,firm,dense,noncalcareous,gritty textured.
- 3320 – 3330 Shale as above. Shale,tan,light brown,blocky,firm,dense,very calcareous, Slightly gritty textured.
- 3331 – Sample Top - Rierdon(Ellis Formation)
- 3330 – 3340 Marlstone,dove grey,chunky,blocky,firm to hard,dense,very calcareous earthy textured,micropyritic. Marlstone,tan,soft,lumpy,very calcareous. Marlstone,white,soft,lumpy,very calcareous.
- 3340 – 3350 same as above.
- 3350 – 3360 Marlstone,dove grey,chunky,soft to firm,dense,very calcareous,earthy textured,micropyritic.
- 3360 – 3370 same as above.
- 3370 – 3380 Marlstone,dove grey,chunky,firm to hard,dense,very calcareous, earthy textured,micropyritic. Marlstone,tan,soft,lumpy.
- 3380 – 3390 Marlstone as above.

3390 - 3400 Marlstone, dove grey, greenish grey, chunky, firm to hard, dense, very calcareous, micropyrritic. earthy textured. Marlstone, white, soft, lumpy, very calcareous.

3400 – 3410 Marlstone, dove grey, greenish grey, chunky, firm to hard, dense, very calcareous, earthy textured, micropyrritic.

3416 – Sample Top - Sawtooth

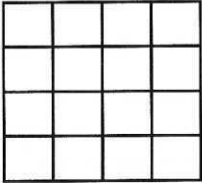
3410 – 3420 Siltstone, lt greenish grey, chunky, firm to hard, dense, very calcareous, gritty to sandy textured, micropyritic, sandy in parts.

3420 – 3430 Siltstone, lt grey, chunky, blocky, firm to hard, dense, very calcareous, micropyritic. Much Pyrite.

3430 – 3440 Siltstone, lt grey, grey, chunky, blocky, firm to hard, dense, very calcareous sandy textured, micropyritic. Much pyrite.

3440 – 3442 Sandstone, tan, cream, very fine grained, rounded, well sorted quartzose, calcareous, many unconsolidated grains in sample pan, no shows.

3442 - Total Depth by Driller



TO
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

COMPLETION REPORT

API # 25 - 073 - 21872

Company ALTAMONT OIL & GAS, INC Lease FIELD Well No. 4-1A
Address PO BOX 488 Field or Area WILDCAT
CUT BANK, MT 59427

Surface Location: 330 ft. from N Line, 380 ft. from E Line, Sec. 4 T 28N R 6W
(N/S) (EW)

County PONDERA Elevation 4,070' GL 4,075' KB
(Surface) (KB)

Date Spud 5/19/2009 Date Completed 5/23/2009 Completed as OIL - SHUT-IN
(Oil, gas, cbm, injection, dry hole, etc.)

The information given herewith is a complete and correct record of the well as of the date of preparation.

Signed [Signature]
Title PRESIDENT & CEO Date 6/30/2010
Telephone (406) 873-9000

For Vertical Well: Total depth 3,468 ft. Plugged back to _____ ft.
For Horizontal or Directionally Drilled Well: Enter well bore and bottom hole location data on page 2 of this form.
For coal bed natural gas well: Static water level _____ ft. below reference elevation of _____ ft.

Casing and Tubing Record

Well Bore	String Type	String		Grade	Length (Feet)	From (MD, Feet)	To (MD, Feet)	Cement (Sacks)	Cement Top (MD, Feet)	Packer Set (MD, Feet)
		Size	Weight							
8-3/4"	Surface	7"	17#/ft	Ltd	17 jts	0	726.67' KB	160	726.67' KB	
6-1/4"	Production	4-1/2"	10.5#/ft	API	85 jts	726.67' KB	3440.91' KB	60	3440.91' KB	

Perforated or Open-hole Intervals

Well Bore	Open Hole/Perf'd Zone		Holes per foot	Size and Type	Open or Isolated (method of isolation)
	Top	Bottom			
4-1/2"	3,444'	3468'	Driller	Open Hole - 3-7/8"	Open
		3460'	Logger		

Acidized, Shot, Fraced, Squeezed, or Cemented

Well Bore	Interval		Treatment Type	Amount and Type of Material	Max. Rate (BBLs/Min)	Max. Pressure (PSI)
	Top	Bottom				
	3444'	3468'	Driller	500 Gal 15% HCl	3.0/min	1300#/s
		3460'	Logger			

Well is producing from Madison/Sun River Dolomite formation(s) or pool(s).
I.P. SI barrels of oil, _____ MCF of gas, and _____ barrels of water per _____ hours.

Sample Formation Tops

<u>Cretaceous</u>	<u>Depth</u>	<u>Datum</u>
Colorado		
Two Medicine		
Blackleaf	1786	+2289
Blackleaf Bentonite Marker	1825	+2250
Blackleaf Sandstone	1830	+2245
Base Fish Scales	--	--
1 st Bow Island	1884	+2191
2 nd Bow Island	2026	+2049
3 rd Bow Island	2134	+1941
4 th Bow Island "A"	2367	+1708
4 th Bow Island "B"	2413	+1662
Dakota	2539	+1536
Kootenai	2582	+1493
Sunburst	3079	+996

Jurassic

Morrison	3135	+940
Swift	3208	+867
Rierdon(Ellis Shale)	3331	+744
Sawtooth	3416	+659

Mississippian

Madison(Sun River Dolomite)

Total Depth:

	---	---
	3542	+633
	3462	+613

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EXHIBIT C

WatchDog® Monitoring System Specifications



WatchDog 4 *Specifications*

Requirements & Ideally the unit should be faced for optimum solar exposure (i.e. south in the northern hemisphere)
Requires at least 1 bar of cell service. Typically works where text works

Environment -40°C to 65°C (-40F to 150F), NEMA4
All exposures except for immersion

Certifications Class I Div. 2, Groups C & D, Exia
FCC PART 15 IC/ICES-003
Analog Input 1-3: Class 1 Div 1
Digital Input 1-2: Class 1 Div 2
Pulse Counter: Class 1 Div 1



Operation Sample frequency: minutely, up to 24 images per day, hourly data upload.
Minute by Minute data available (transmits hourly)
Up to 30 days without solar charge

Options Up to 2 High dynamic range cameras (640x480 images)
Up to 3 external RTDs, (1-5Vdc), and/or (4-20mA) Sensors
Up to 6 external RTDs, (1-5Vdc), and/or (4-20mA) Sensors, WatchDog4 Add-On-Board required (see Add-On-Board Documentation)

Ordering Systems include cables, end device(s), and mounting.
Installation available (Call for quote)

- Specify quantity of cameras: (0-2) c/w 3m cable
- Specify qty of RTDs, Vibration, Electric Current and or Pressure Sensors: (0-6) c/w 3m cable
- Specify range of Pressure sensors: (15, 50, 500, 1500, 5000 psi).

Typical lead time > 4 weeks.

Mounting A Frame, stand, and wall mount available

Shipping FOB Calgary, AB
Dimensions (LxWxH):
Weight: 5.4 kg (incl. battery pack)

Warranty 90 days, parts and labour

Consumables 1 field replaceable 12Ahr 6Vdc SLA battery included.

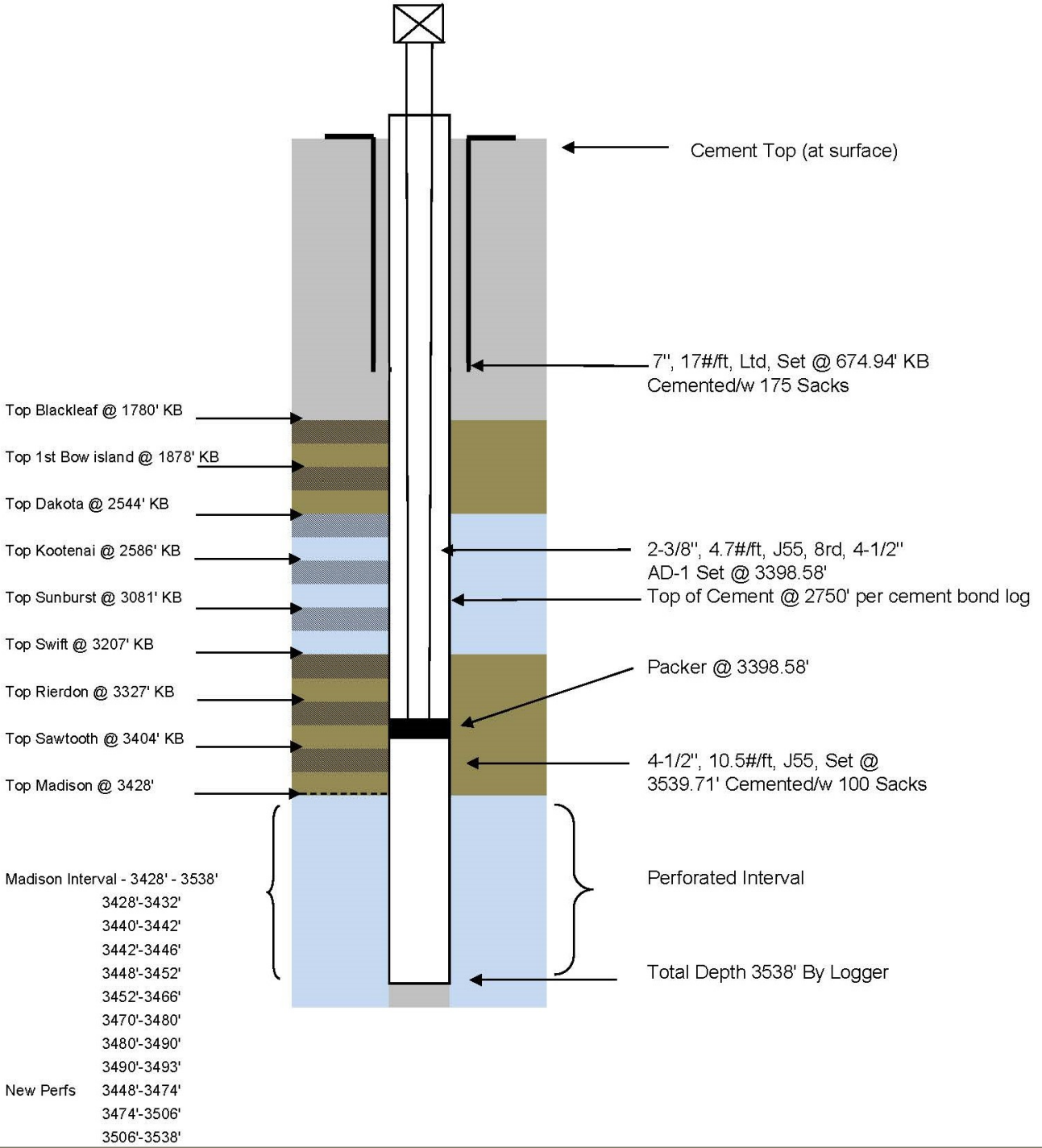
Pricing (CAD) \$1500 - \$3,500 email for quote info@afti.ca

WD4 Spec. Sheet
© Revised September 23, 2019

Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W
	(330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

**SCHEMATIC
After Workover**



- USDW
- Confining Zone

**WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1**

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment C
Figure 01**

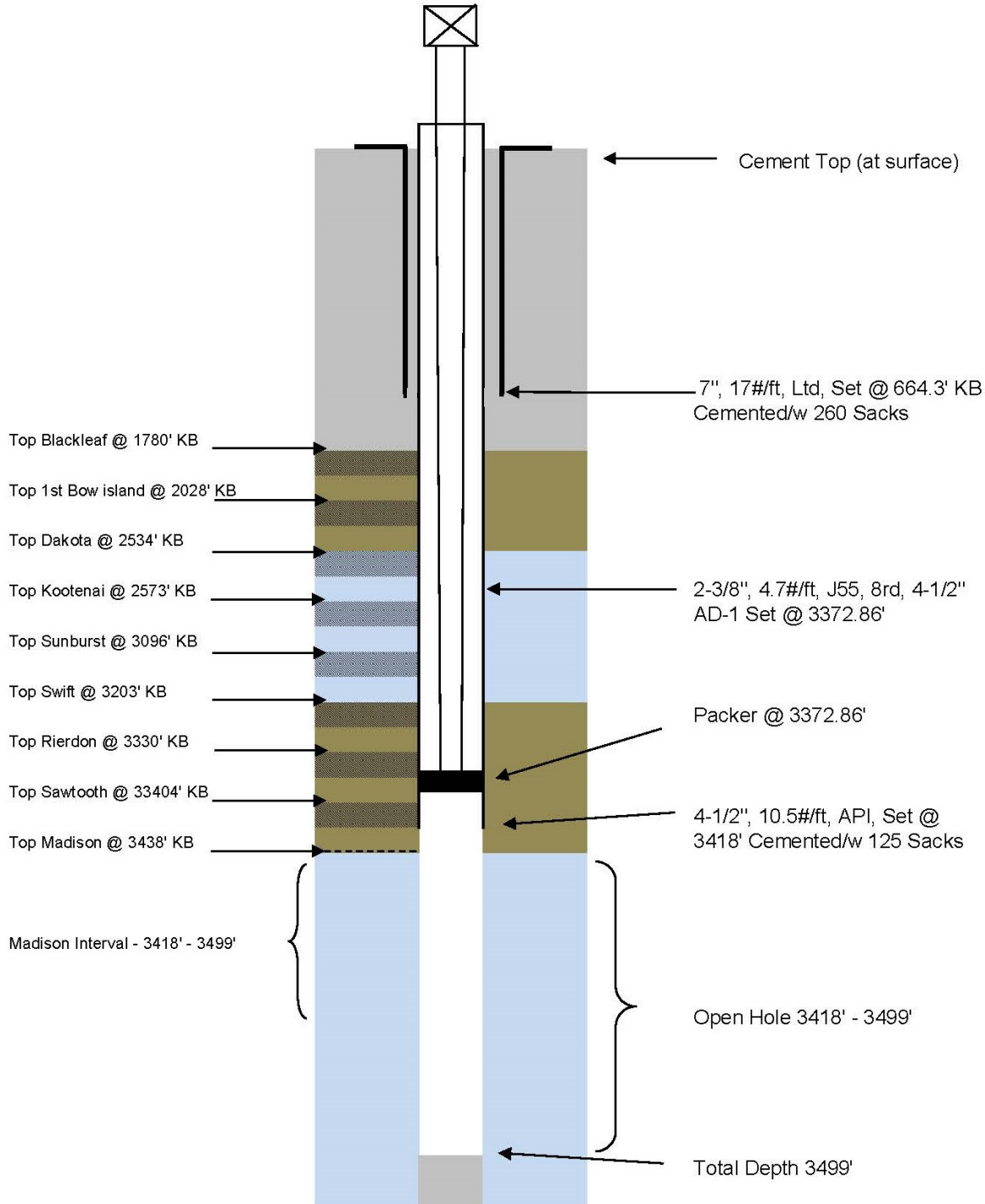
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment C
Figure 02

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment D Injection Operation and Monitoring Program (40 CFR § 144.54)

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CONTENTS

1. Injection Process Flow, Facilities and Monitoring	2
2. Injection Well Maintenance	2
3. Loss of Mechanical Integrity During Operation	2
4. Injectate Characteristics	3

FIGURES

Figure 1. Injection Site Layout

Figure 2. Injection Operations Jody Field Wells 34-1 and 34-2

EXHIBITS

Exhibit A. WatchDog® System Specifications

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1. INJECTION PROCESS FLOW, FACILITIES AND MONITORING

Montalban Oil & Gas Operations, Inc. (Montalban) will receive industrial wastewater from Montana Renewables, a renewable fuels refinery located in Great Falls, Montana. The Class V injection wells are located on private property. The wastewater will be delivered by truck via secure access from Range View Road and offloaded to the frac tanks located at the injection site. (**Figure 1**). A transfer pump will pump the water from the frac tanks to the 300 bbl water tank located next to the injection building. The water will be sent from the injection pump through the injection lines to wells Jody Field 34-1 and Jody Field 34-2 (**Figure 2**). A pressure actuated shut-off device (Murphy switch) is located in the injection building and is set to shut-off flow from the injection pump when pressures reach within 200 to 300 psi of the Maximum Allowable Injection Pressure (MAIP) established for the wells.

Each injection well is housed in a 4' x 6' building that is insulated and heated for winter operations. The wells will be equipped with the WatchDog® virtual well-site monitoring system, which will continuously monitor injection volumes and flow rates, pressure on the tubing, and pressure on the backside of the packer and tubing casing annulus. Data will be monitored 24/7 on scheduled transmissions, however, should a threshold for pressure be crossed, the WatchDog® system will transmit immediately with a device alarm. The pressure sensors are capable of monitoring pressures ranging from normal operating pressures up to the MAIP. Specifications for the WatchDog® system are provided in Exhibit A.

The tubing casing annulus will be filled with water treated with a corrosion inhibitor, and the valve will remain closed during normal operating conditions so that the pressure will be maintained at zero (0) psi. A "tap" will be placed at a conveniently accessible location on the discharge line of the pump that leads to the injection wells for collection of representative samples of the injected fluid.

2. INJECTION WELL MAINTENANCE

The well parameters will be monitored daily to identify any trends that could indicate a loss of injectivity. In the event a well workover is required to maintain well performance, EPA will be notified and a Mechanical Integrity Test (MIT) will be conducted to demonstrate integrity of the well prior to resuming injection.

3. LOSS OF MECHANICAL INTEGRITY DURING OPERATION

Mechanical Integrity will be continuously monitored using the WatchDog® well-site remote monitoring system which will alert Montalban immediately upon well failure. In the event of a loss of mechanical integrity, the well will be promptly shut-in, EPA will be notified, and repairs will be conducted to achieve and demonstrate mechanical integrity prior to resuming injection.

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4. INJECTATE CHARACTERISTICS

The wastewater from Montana Renewables will be generated from the pretreatment of renewable feedstocks. The renewable feedstocks may include, but are not limited to, vegetable oils (such as soybean oil and canola oil), animal fats (such as beef tallow, choice white grease, and poultry fat) distiller's corn oil, and used cooking oil.

The pretreatment process technology is developed and licensed by Applied Research Associates, Inc. (ARA). The technology involves a water-based (hydrothermal) cleanup process to pretreat feedstocks and feedstock blends prior to processing into renewable fuels. The pretreatment removes impurities from the renewable oils to extend the life of the catalysts. In this pretreatment process, water and a weak acid are mixed with the feedstock at high temperatures and pressure. After a predetermined contact time, the mixture is cooled and separated in an electrostatic separator to produce a renewable oil suitable for processing into renewable fuels, and a water phase. Phosphorus, nitrogen, salts and other impurities are removed with the water phase. This water phase comprises the wastewater requested for approval for injection.

The ARA pre-treatment system is currently under construction. Therefore, final water quality data for the various blends of feedstock are not available. However, based on bench scale analyses and projections from ARA, the following range of raw water quality is approximated:

- pH: 3
- TDS: 5,000 mg/L - 8,000 mg/L
- Conductivity: 2,809 μ S/cm - 4,500 μ S/cm

Prior to injection, the pH will be adjusted to be compatible with the injection well design based on geochemical modeling of water/well, water/rock and water/water interactions. Adjustment of the pH will result in an increase in TDS. Initial bench scale testing indicates this TDS increase to be in the 5 – 10% range and will depend on the buffering capacity of the wastewater during operation.

The wastewater will be injected into the Mississippian Madison Aquifer, which is determined to be an Underground Source of Drinking Water (USDW), with a measured TDS concentration within the UIC permit area of 5,440 mg/L. An aquifer exemption has been requested (UIC Permit Application, Attachment H).

At startup, the average volume of wastewater to be injected into each well is approximately 800 to 900 bbls/day. These volumes are consistent with the operation of the Class II wells, which have received up to an average of 850 bbls/day. The average and maximum injection rates are 1,300 and 2,000 bbls/day respectively. The maximum injection pressure is 1,025 pounds with an average injection pressure of 600 pounds. The pressures are authorized by the Montana Board of Oil & Gas Conservation within the current Class II UIC permits.

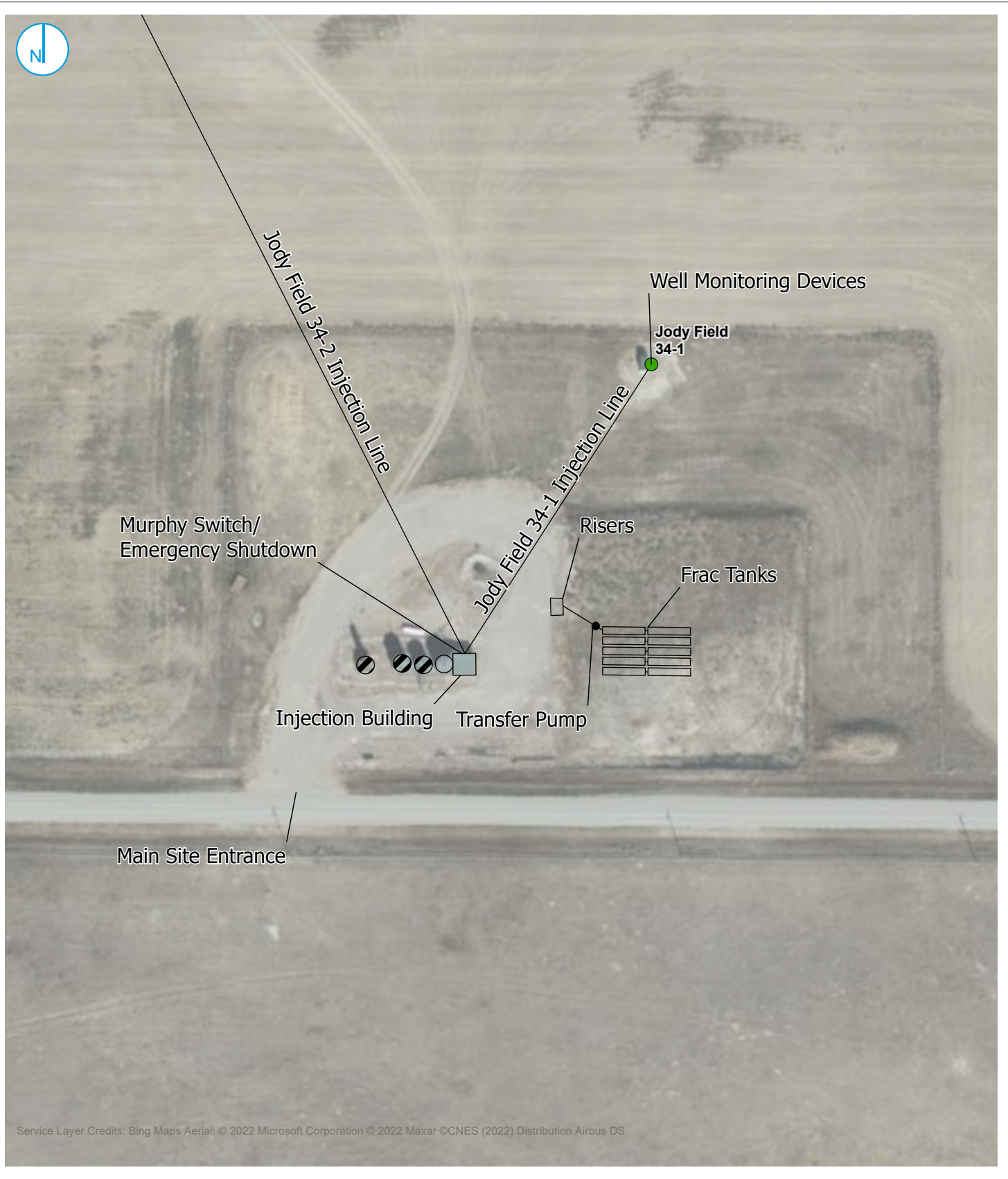
Montana Renewables plans to increase the wastewater injection volume over the life of the facility up to a potential maximum of 3,600 bbls/day. Future Class V UIC wells are proposed in the Area Wide UIC Permit Application to accommodate this expansion, as described in Attachment A of the Area Wide UIC Permit Application.

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FIGURES

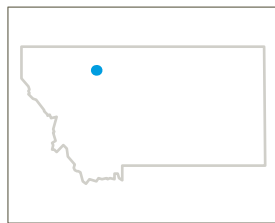
Figure 1. Injection Site Layout

Figure 2. Injection Operations and Monitoring Program



Service Layer Credits: Bing Maps Aerial: © 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS

Map Scale: 1:1,800 | Map Center: 112°22'18"W 48°13'20"N



KEY MAP (not to scale)

- Active Injection
- Out of Service Equipment
- Polygon Notes

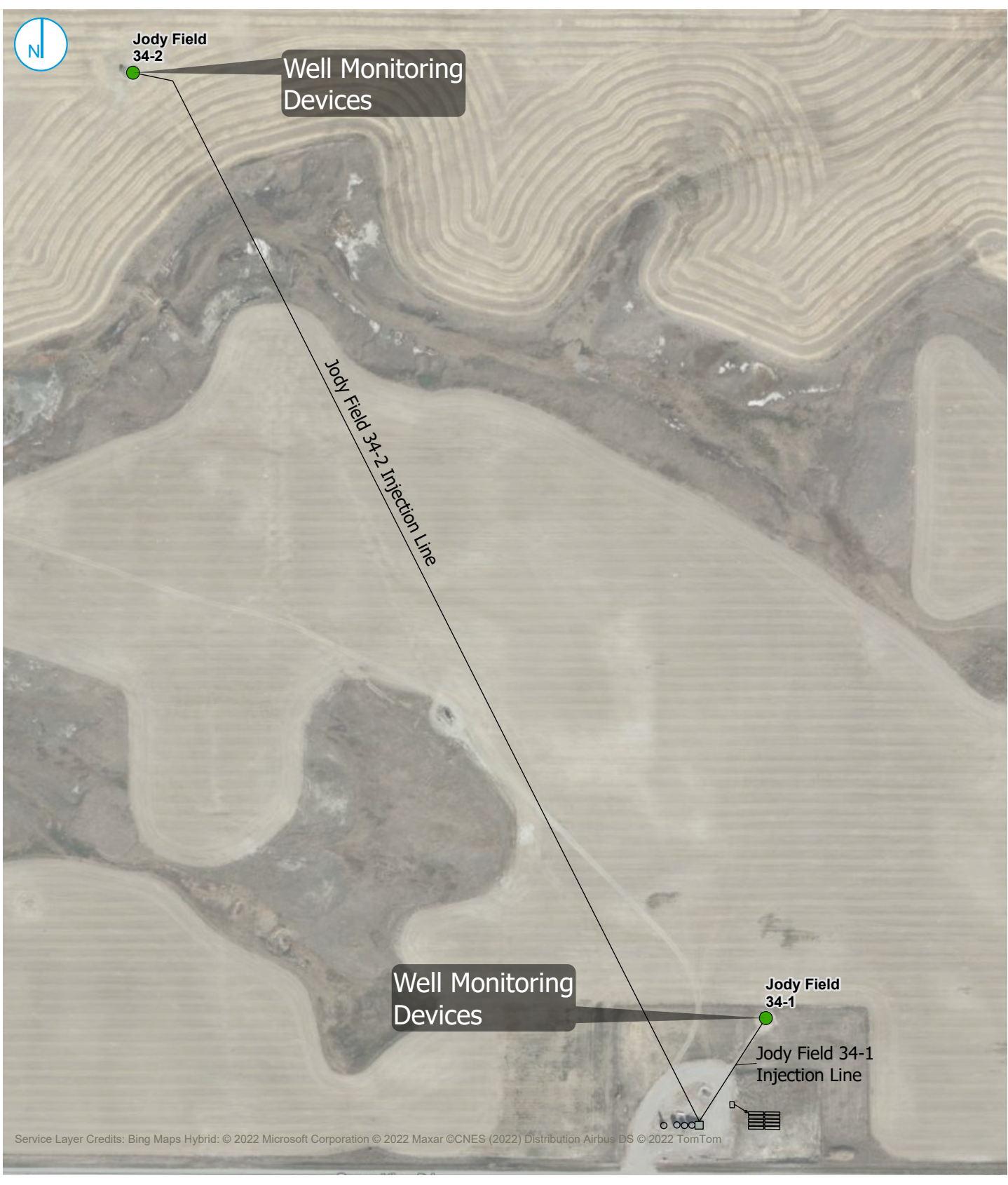
INJECTION SITE LAYOUT
MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE UIC
APPLICATION
JODY FIELD WELLS



Attachment D
Figure - 01

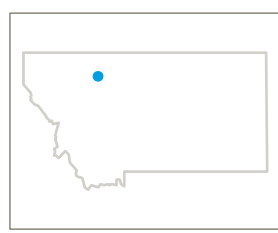
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





Map Scale: 1:5,100 | Map Center: 112°22'24"W 48°13'31"N

● Active Injection



INJECTION OPERATIONS JODY FIELD WELLS 34-1 AND 34-2

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE UIC APPLICATION
JODY FIELD WELLS



Attachment D Figure - 02

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



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EXHIBITS

Exhibit A. WatchDog® System Specifications



WatchDog 4 *Specifications*

Requirements & Ideally the unit should be faced for optimum solar exposure (i.e. south in the northern hemisphere)
Requires at least 1 bar of cell service. Typically works where text works

Environment -40°C to 65°C (-40F to 150F), NEMA4
All exposures except for immersion

Certifications Class I Div. 2, Groups C & D, Exia
FCC PART 15 IC/ICES-003
Analog Input 1-3: Class 1 Div 1
Digital Input 1-2: Class 1 Div 2
Pulse Counter: Class 1 Div 1



Operation Sample frequency: minutely, up to 24 images per day, hourly data upload.
Minute by Minute data available (transmits hourly)
Up to 30 days without solar charge

Options Up to 2 High dynamic range cameras (640x480 images)
Up to 3 external RTDs, (1-5Vdc), and/or (4-20mA) Sensors
Up to 6 external RTDs, (1-5Vdc), and/or (4-20mA) Sensors, WatchDog4 Add-On-Board required (see Add-On-Board Documentation)

Ordering Systems include cables, end device(s), and mounting.
Installation available (Call for quote)

- Specify quantity of cameras: (0-2) c/w 3m cable
- Specify qty of RTDs, Vibration, Electric Current and or Pressure Sensors: (0-6) c/w 3m cable
- Specify range of Pressure sensors: (15, 50, 500, 1500, 5000 psi).

Typical lead time > 4 weeks.

Mounting A Frame, stand, and wall mount available

Shipping FOB Calgary, AB
Dimensions (LxWxH):
Weight: 5.4 kg (incl. battery pack)

Warranty 90 days, parts and labour

Consumables 1 field replaceable 12Ahr 6Vdc SLA battery included.

Pricing (CAD) \$1500 - \$3,500 email for quote info@afti.ca

WD4 Spec. Sheet
© Revised September 23, 2019

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment E Plugging and Abandonment Plan (40 CFR §§ 144.31 & 144.51)

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CONTENTS

1. Plugging and Abandonment Plans	2
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EXHIBITS

Exhibit A. Plugging and Abandonment Plans

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1. PLUGGING AND ABANDONMENT PLANS

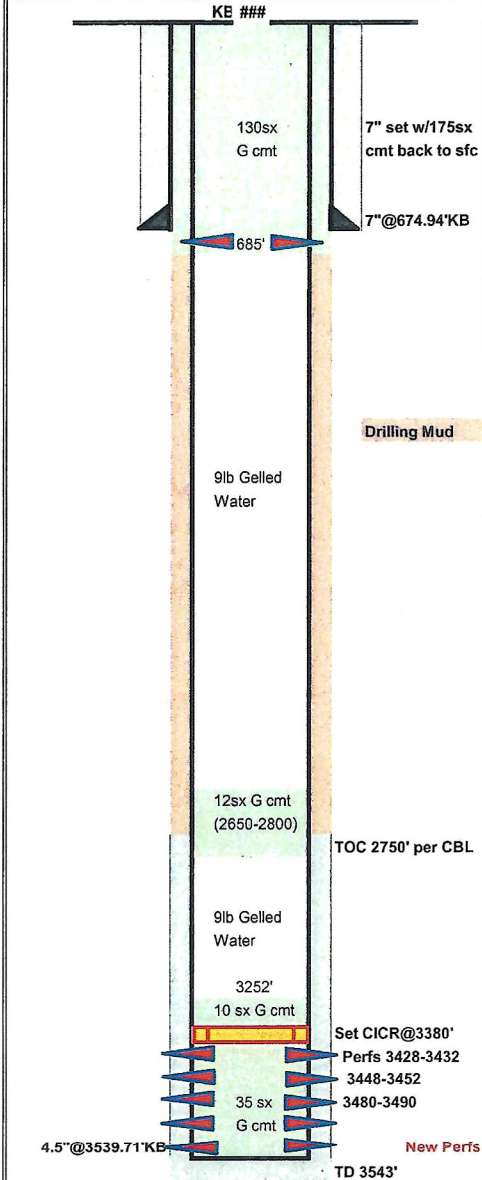
Updated plugging and abandonment plans have been prepared for Wells Jody Field 34-1 and 34-2, based on recent workovers and are included in Exhibit A. The plans are required by the Montana Board of Oil and Gas Conservation and have been approved for the existing Class II UIC wells.

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EXHIBIT A

Plugging and Abandonment Plans

MT BOGC Approved Wellbore Schematic



Operator: Montalban Oil & Gas Operations, Inc.			
Lease:	Jody Field	Well No.	34-1
API No.	25-073-21830	Type:	Injection
Location:	S34 29N 6W, SESESW (330'FSL & 2310'FWL)		
County:	Pondera	State:	MT
Field:	Wildcat		
TD:	3,543'	KB	Spud Date: 4/30/2008
PBTD:	3,538'	GL	4071'
Comp Date:	5/6/2008		

WELLBORE CONSTRUCTION				
	Size	Weight/Grade	Depth	Cement
Open Hole	8 3/4"		675'	
Surface	7"	17lb / LTD	675'	175
Open Hole Intermediate				
Open Hole	6 1/4"		3543	
Production	4.5"	10.5lb / J-55	3540'	100
Liner				
DV Tool				

Formation Tops	
Blackleaf	1780'
1st Bow Island	1878'
Dakota	2544'
Kootenai	2586'
Sunburst	3081'
Swift	3207'
Rierdon	3327'
Sawtooth	3404'
Madison	3428'

Perforations Required - P&A	Depth
1 4spf 3 1/8" HSC 19gm or csg rip	684-685

Mechanical Plugs Required - P&A	Depth
1 CICR	3,380'

Cement Required to P&A		Sacks
Plug #1	Sqz into perfs(3428-3538)	35
Plug #2	Balance on CICR (3252-3380)	10
Plug #3	(2650-2800)	12
Plug #4	(0-685) in 4.5" & 4.5x7" annulus	130
Plug #5		
Plug #6		
Total Sacks		187

Set CICR@3380'		
Perfs 3428-3432	3440-3442	3442-3446
3448-3452	3452-3466	3470-3480
3480-3490	3490-3493	3448-3474
35 sx G cmt	3474-3506	
4.5"@3539.71'KB	New Perfs 3506-3538	

Generalized Plugging Procedure

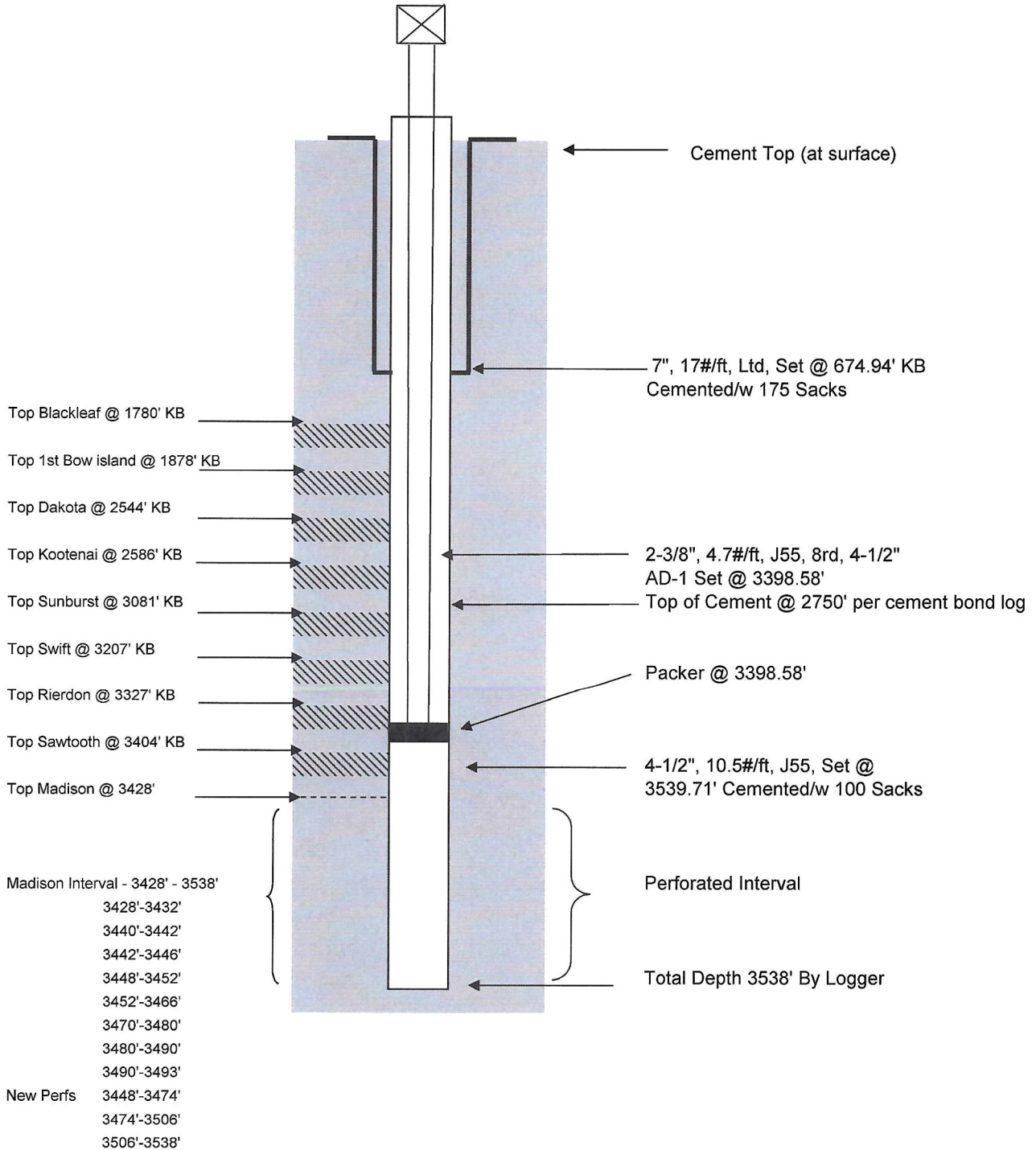
Remove wellhouse & prepare location for service rig and P&A support equipment. MIRU Service rig, set anchors. Dig working pits, lay out tubing and AD1 packer. On workstring run 4.5" casing scraper to 3400'KB, lay out scraper and RIH with a CICR and set it at 3380'KB. Establish injection rate thru retainer and squeeze away 35sx G cement + additives into the Madison perfs. Sting out and balance 10sx G cement on top of CICR. Pull up out of cement and fill hole with 9lb gelled water. Set 12 sx G cement balanced plug at 2650-2800 across TOC behind pipe. Lay out setting tool. Perforate or run mechanical csg ripper and perf or rip 4.5" csg from 684-685'. Lay out perf gun/ripping tools. Install 4.5x2" swedge on csg and break circ w/water down 4.5 & up 7", then bullhead 130sx G cement until get good cement returns to surface in and out both strings of casing. Dig down and cut/cap casings 4ft below surface and weld on a steel ID plate. Cut off injection line riser 4' below sfc, purge it of fluids and then cap it. Restore location back to natural grade and then reseed disturbed areas back to native grasses as per sfc owner. Cleanup any debris and solid waste for removal and proper disposal off site.

Surface Owner
 Jody Field
 5353 Range View Rd
 Valier, MT 59486-5424

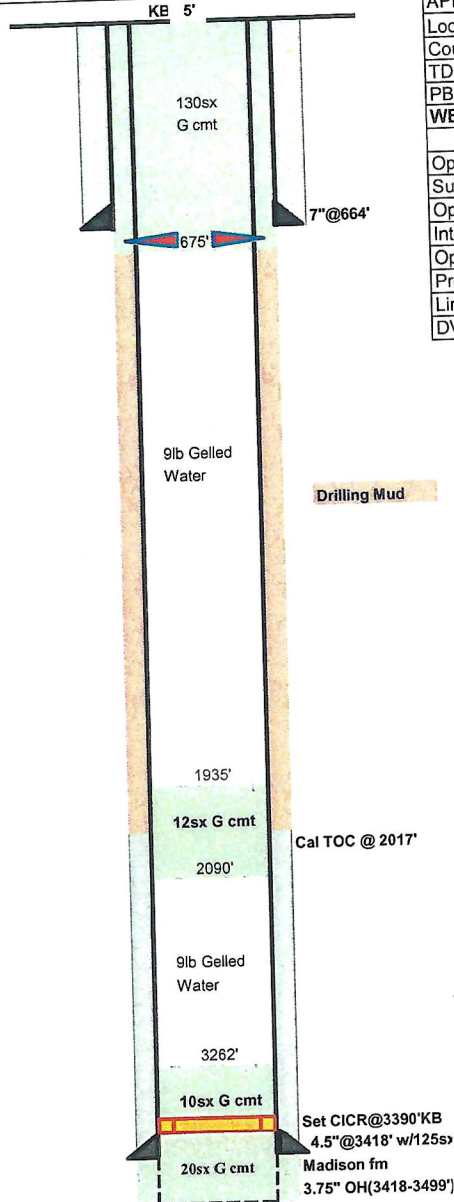
Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESESW-Section 34-T29N-R6W
	(330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

SCHEMATIC
After Workover



MT BOGC Approved Wellbore Schematic



Operator: Montalban Oil & Gas Operations, Inc.			
Lease: Jody Field	Well No. 34-2		Status: Active
API No. 25-073-21838	Type: Injection	Location: S34 29N 6W, NWSW (2310'FSL & 990'FWL)	
County: Toole	State: MT	Field: Wildcat	Spud Date: 8/7/2008
TD: 3499'(deepened)	KB 4038'	GL 4033'	Comp Date: 8/18/2008
WELLBORE CONSTRUCTION			
	Size	Weight/Grade	Depth
Open Hole	8 3/4"		668'
Surface	7"	17lb / LTD	664'
Open Hole			
Intermediate			
Open Hole	6 1/4"		3419
Production	4.5"	10.5lb / API	3418'
Liner			
DV Tool			

Formation Tops		Depth
Blackleaf		1780'
1st Bow Island		1874'
Dakota		2534'
Kootenai		2573'
Sunburst		3096'
Swift		3203'
Rierdon		3330'
Sawtooth		3404'
Madison		3438'

Perforations Required to P&A	Depth
1 4spf 3 1/8" HSC 19gm or csg rip	674-675

Mechanical Plug Required to P&A	Depth
1 CICR	3,390'

Cement Required to P&A	Sacks
Plug #1 Sqz below CICR (3390-3499')	20
Plug #2 Balance on CICR (3262-3390')	10
Plug #3 (1935-2090')	12
Plug #4 (0-675') in 4.5" & 4.5x7" annulus	130
Plug #5	
Plug #6	
Total Sacks	172

Generalized Plugging Procedure

Remove wellhouse & prepare location for service rig and P&A support equipment. MIRU Service rig, set anchors. Dig working pits, lay out 2 3/8" tubing and AD1 pkr. Run 4.5" csg scraper in on workstring to 3400'KB, clean out if necessary. Lay out csg scraper. RIH with CICR on workstring and set it at 3390'KB, establish injection rate with water thru retainer and then squeeze off open hole Madison section with 20sx G cement + additives. Sting out of retainer and balance 10sx G cement on top of CICR from (3262-3390'). Pull up out of cement and circ hole with 9lb gelled water then balance 12sx G cmt from (1935-2090') across estimated TOC behind the 4.5" csg. Lay out the setting tool. Perf or csg rip the 4.5" from 674-675', lay out perf gun or ripping tool. Dig out 7" csg head, swedge up to the 4.5" csg and pump water down until get returns out 7" then bullhead squeeze the 4.5" and 4.5 x7" annulus with 130sx G cement until get good returns out 7" at surface. Dig down and cut/cap casings 4ft below sfc with steel ID plate welded on top. Cut off the injection line riser off 4ft down and purge it, then cap it. Backfill location back to natural contour and clean up any debris and solid waste for proper disposal off site. No reseeding will be necessary since site is on cultivated farmland and it will be farmed over in the future.

Surface Owner
Jody Field
5353 Range View Rd
Valier, MT 59486-5424

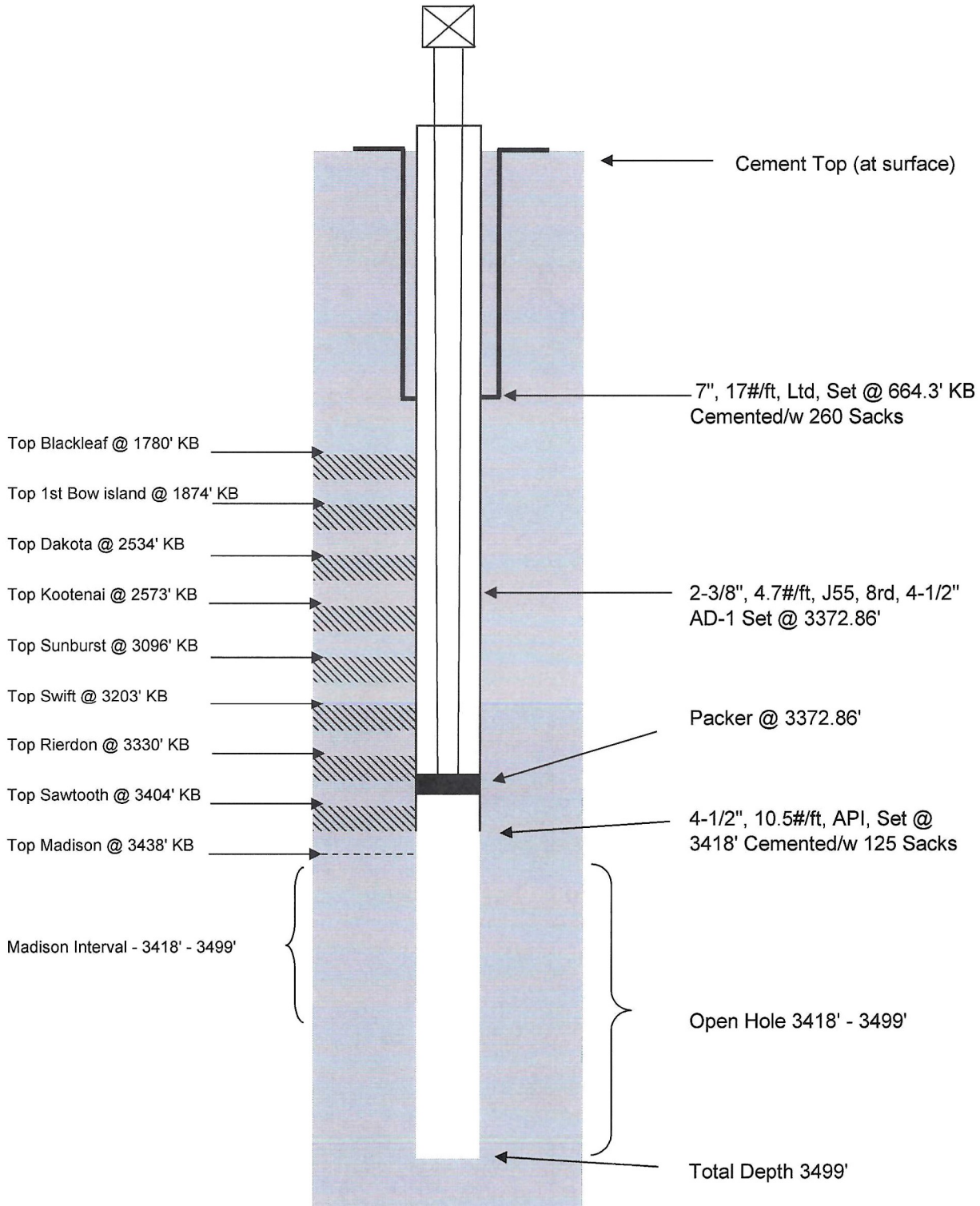
PREPARED BY: G.Klotz

DATE: 10/3/2022

Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W
	(2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment F Financial Information (40 CFR § 144.52)

Privileged and Confidential

CONTENTS

1.	Plugging and Abandonment Cost Estimates	2
2.	Financial Assurance Mechanism	2

EXHIBITS

- Exhibit A. Plugging and Abandonment Cost Estimates
- Exhibit B. Standby Trust Agreement and Letter of Credit

Privileged and Confidential

1. PLUGGING AND ABANDONMENT COST ESTIMATES

Montalban obtained two cost estimates for plugging and abandonment of Jody Field Wells 34-1 and 34-2, based on their current design (Exhibit A). Liquid Gold Well Service Inc. provided an estimate for both wells of \$46,357. A second cost estimate was provided by Enneberg Excavation LLC of \$23,950 for both wells. Financial assurance was established based on the higher cost estimate.

2. FINANCIAL ASSURANCE MECHANISM

A Standby Trust Agreement and Letter of Credit in the amount of \$46,357 was executed on October 10, 2022 between Montalban Oil & Gas Operations, Inc. and Freedom Bank (Exhibit B). The fund is explicitly established for plugging and abandonment of injection wells Jody Field 34-1 and Jody Field 34-2. The Letter of Credit is effective as of October 10, 2022 and expires on October 10, 2023 with automatic annual renewal on each successive expiration date, subject to the terms provided in Exhibit B.

Based on the location of the wells (on private, rural agricultural land), no land reclamation costs are anticipated.

Privileged and Confidential

EXHIBIT A

Plugging and Abandonment Cost Estimates



Well Service & Completions

Bid for Jody Field 34-1, 34-2 Injection wells

This bid is for the following work as requested by Patrick Montalban

Jody Field 34-1 Well

MIRSU, POOH with tubing and packer, TIH with tubing and casing scraper to 3400', lay out scraper, pickup 4.5" CICR, and RIH, set at 3380', establish pump rate through retainer, squeeze 35sx cement, sting out of retainer and balance 10sx cement on top of retainer, pull out of cement, and fill hole with 9lb gelled water, POOH to 2800' and balance a 12sx cement plug. POOH lay down tubing, pick up casing ripper and RIH to 685', and rip from 685' to 684', lay out casing ripper, install casing swage, circulate 130sx cement down 4.5" casing and up annulus until good cement returns are observed, tear out, RDMO.

TOTAL: \$12250



Well Service & Completions

Bid for Jody Field 34-1, 34-2 Injection wells

This bid is for the following work as requested by Patrick Montalban

Jody Field 34-2 Well

MIRSU, POOH with tubing and packer, TIH with tubing and casing scraper to 3400', lay out scraper, pickup 4.5" CICR, and RIH, set at 3390', establish pump rate through retainer, squeeze 20sx cement, sting out of retainer and balance 10sx cement on top of retainer, pull out of cement, and fill hole with 9lb gelled water, POOH to 2090' and balance a 12sx cement plug. POOH lay down tubing, pick up casing ripper and RIH to 675', and rip from 675' to 674', lay out casing ripper, install casing swage, circulate 130sx cement down 4.5" casing and up annulus until good cement returns are observed, tear out, RDMO.

TOTAL: \$11700

Privileged and Confidential

EXHIBIT B

Standby Trust Agreement and Letter of Credit

STANDBY TRUST AGREEMENT

U.S. ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PROGRAM FINANCIAL RESPONSIBILITY REQUIREMENT

To: Mail Code: 8ENF-W-SWD
UIC Financial Coordinator
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

TRUST AGREEMENT, the "Agreement", entered into as of October 10, 2022
(date)

by and between Montalban Oil & Gas Operations, Inc., a Montana Corporation, the "Grantor", and Freedom Bank, incorporate in the State of Montana, the "Trustee".

WHEREAS, the United States Environmental Protection Agency (EPA), an agency of the United States Government, has established certain regulations applicable to the Grantor, requiring that an owner or operator of an injection well shall provide assurance that funds will be available when needed for plugging and abandonment of the injection well(s),

WHEREAS, the Grantor has elected to establish a trust to provide all or part of such financial assurance for the facility or facilities identified herein, and

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this Agreement, and the Trustee is willing to act as trustee,

NOW THEREFORE, the Grantor and Trustee agree as follows:

Section 1. Definitions. As used in this agreement:

(a) The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

(c) Facility or activity means any "underground injection well" or any other facility or activity that is subject to regulation under the Underground Injection Control Program.

Section 2. Identification of Facilities and Cost Estimates. This Agreement pertains to the facilities and cost estimates identified on attached Schedule A (attached). (Schedule A lists, for each facility, the EPA identification number, name, address, and the current plugging and abandonment cost estimate, or portions thereof, for which financial assurance is demonstrated.)

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a trust fund, the "Fund," for the purpose of assuring compliance with the plugging and abandonment requirements established by EPA for the facilities identified on Schedule A. The Underground Injection Control regulations which govern the authorization to inject include a requirement for such financial assurance that the well or wells shall be plugged and abandoned at the time

designated by EPA. The Grantor and Trustee acknowledge that the Fund and all expenditures from the Fund shall be to fulfill the legal obligations of the Grantor under such regulations, and not any obligation of EPA. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible, nor shall it undertake any responsibility, for the amount or adequacy of any additional payments necessary to discharge any liabilities of the Grantor established by EPA, nor shall the Trustee have any duty to collect such additional amounts from the Grantor.

Section 4. Payment for Plugging and Abandonment. The Trustee shall make payments from the Fund only for the costs of plugging and abandonment (P&A) of the injection wells covered by this Agreement and the associated P&A Plan, only after EPA has advised the Trustee that work has been completed under the P&A Plan that complies with 40 C.F.R. § 144.28 and/or § 144.52. The Trustee shall not refund to the Grantor any amounts from the Fund unless and until EPA has advised the Trustee that the P&A Plan has been successfully completed. The Trustee shall not release any funds to the Grantor that are necessary to cover liability for any injection wells covered by this Agreement that remain unplugged.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; *except that:*

(i) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the Federal or a State government;

(ii) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State government; and

(iii) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and (b) To purchase shares in any investment company registered

under the Investment Company Act of 1940, 15 U.S.C. 80a-1 *et seq.*, including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered: (a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition; (b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted; (c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depository even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depository with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve Bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund; (d) To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and (e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee shall be paid from the Fund.

Section 10. Annual Valuation. The Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the appropriate EPA Regional Administrator a statement confirming the value of the Trust. Any securities in the Fund shall be valued at market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the EPA Regional Administrator shall constitute a conclusively binding assent by the Grantor, barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11 Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the EPA Regional Administrator, and the present Trustee by certified mail 10 days before such changes become effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee. All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A or such other designees as the Grantor may designate by amendment to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. All orders, requests, and instructions by the EPA Regional Administrator to the Trustee shall be in writing, signed by the EPA Regional Administrators of the Regions in which the facilities are located, or their designees, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or EPA hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or EPA, except as provided for herein.

Section 15. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the appropriate EPA Regional Administrator, or by the Trustee and the appropriate EPA Regional Administrator if the Grantor ceases to exist.

Section 16. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 15, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the EPA Regional Administrator, or by the Trustee and the EPA Regional Administrator if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

Section 17. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the EPA Regional Administrator issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or from the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to prove such defense.

Section 18. Choice of Law. This agreement shall be administered, construed, and enforced according to the laws of the State of Colorado.

Section 19. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of the Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

IN WITNESS WHEREOF the parties have caused this Agreement to be executed by their respective representatives duly authorized and their seals to be hereunto affixed and attested as of the date first above written.

GRANTOR

By: [Signature]
[Signature] [Date]

By: Patrick M. Montalban

Its: President
[Title]

Address:

Montalban Oil & Gas Operations, Inc
PO Box 200
Cut Bank, MT 59427
(406) 873-2845
patrickm@mogo-inc.com

TRUSTEE

By: [Signature] 10/10/22
[Signature] [Date]

By: Don Bennett

Its: President
[Title]

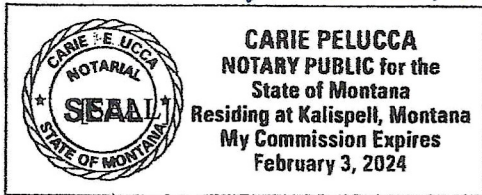
Freedom Bank
PO Box 2076
Columbia Falls, MT 59912
(406) 892-1776
dbennette@freedombankmt.com

Attest: max J. Fuller

Attest: max J. Fuller

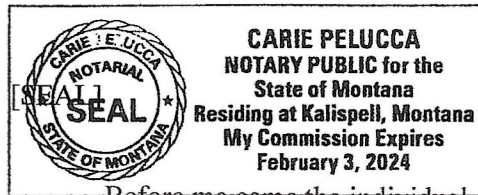
Its: Vice President
[Title] Freedom Bank

Its: Vice President
[Title]



Before me came the individual whose identity I confirmed as Patrick M. Montalban, and whose true signature is set forth above; wherefore have I set my hand and seal this 10th day of Oct., 2022

[Signature]
Notary Public



Before me came the individual whose identity I confirmed as Don Bennett, and whose true signature is set forth above; wherefore have I set my hand and seal this 10th day of Oct., 2022

[Signature]
Notary Public

SCHEDULE B

Description of Property / Financial Instrument

[Surety, Letter of Credit, etc.]

Schedule B is referenced in the Standby Trust Agreement (Section 3) dated October 10, 2022

by and between Montalban Oil & Gas Operations, Inc., the “Grantor,” and Freedom Bank, the “Trustee.”

Description of Property / Financial Instrument:


1. Letter of Credit

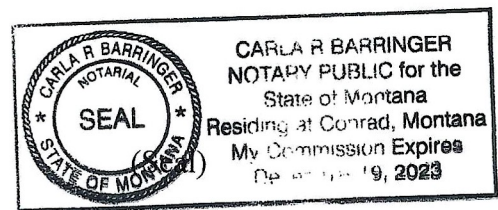
**CERTIFICATE OF ACKNOWLEDGEMENT
FOR
STANDY TRUST FUND AGREEMENT**

STATE OF : Montana
COUNT OF : Glacier

On this 10th day of October, 2022 before me personally came Patrick M. Montalban to me known, who, being by me duly sworn, did depose
(Owner or Operator)
and say that he/she resides at Cut Bank, MT, that he/she is
(Address)
President of Montalban Oil & Gas Operations, Inc
(Title) (Corporation)

the corporation described in and which executed the above instrument; the he/she knows the seal of said corporation; that the seal affixed to such instrument in such corporation seal; that is was so affixed by order of the Board of Directors of said corporation, and that he/she signed his/her name thereto by like order.


(Notary Public)





U.S. Environmental Protection Agency (EPA)
UIC Financial Coordinator
U.S. Environmental Protection Agency, Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

October 10, 2022

Re: Letter of Credit #50 Name: Montalban Oil & Gas Operations, Inc., Amount: \$46,357

To Whom it may concern:

We hereby establish our Irrevocable Standby Letter of Credit No. 50 in your favor, at the request and for the account of Montalban Oil & Gas Operations, Inc., a Montana Corporation at P.O. Box 200, Cut Bank, MT 59427 up to the aggregate amount of Forty-Six Thousand Three Hundred Fifty-Seven Dollars [\$46,357.00] available upon presentation of the following documentation by U.S. Environmental Protection Agency Regional Administrator of Region 8:

1. Your sight draft, bearing reference to this letter of credit No 50, and
2. Your signed statement reading as follows: "I certify that the amount of the draft is payable pursuant to regulations issued under authority of the Safe Drinking Water Act".

This letter of credit is effective as of October 10, 2022 and shall expire on October 10, 2023, but such expiration date shall be automatically extended for a period of 1 year on October 10, 2023 and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify both you and Montalban Oil & Gas Operations, Inc., by certified mail that we have decided not to extend this letter of credit beyond the current expiration date. In the event you are so notified, any unused portion of the credit shall be available upon presentation of your sight draft for 120 days after the date of receipt by both you and Mogo Reagan, LLC, as shown on the signed return receipts.

Whenever this letter of credit is drawn on under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of Montalban Oil & Gas Operations, Inc., in accordance with your instructions.

We certify that the wording of this letter of credit is identical to the wording specified in 40 CFR 144.70(d) as such regulations were constituted.

Don Bennett, President of Freedom Bank

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment G Site Security and Manifest Requirements (Commercial Wells Only)

Privileged and Confidential

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FIGURES

Figure 1. Site Security and Access

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1. SITE SECURITY AND WASTEWATER MANIFESTING

The injection facility is located on private land, which is fenced and gated by the landowner. Trucks enter via a single access point from Range View Road into the injection facility. As indicated on Figure 1, the landowner's residence is located adjacent to the facility. The site will be monitored 8 to 12 hours per day by the operator, along with observation by the landowner during his rounds each day. Wells Jody Field 34-1 and 34-2 are securely enclosed in buildings that are insulated and heated for winter operations.

Representative wastewater quality parameters will be provided by Montana Renewables to Montalban Oil & Gas Operations, Inc. prior to commencing initial operations. Sampling of pH will be conducted daily at the refinery. At the injection facility, a "tap" will be placed at a conveniently accessible location on the discharge line of the pump that leads to the injection wells. A representative water sample will be collected quarterly for submittal to EPA.

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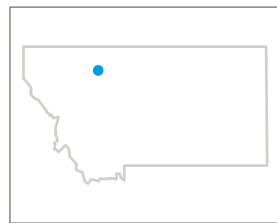
FIGURES

Figure 1. Site Security and Access



Service Layer Credits: Bing Maps Aerial: © 2022 Microsoft Corporation © 2022 Maxar © CNES (2022) Distribution Airbus DS

Map Scale: 1:3,000 | Map Center: 112°22'13"W 48°13'19"N



KEY MAP (not to scale)

- Active Injection
- Out of Service Equipment



SITE SECURITY AND ACCESS

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE UIC
APPLICATION
JODY FIELD WELLS**

Attachment G Figure - 01

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment H Underground Injection Control Program: Madison Aquifer Exemption Request

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Figure AE.15. Private and Public Water Wells

EXHIBITS

Exhibit A. Water Quality Analysis Wells Jody Field 14-34 and 4-1
Exhibit B. Powers Farm 29-1 Density/Neutron Log

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1. INTRODUCTION

Montalban Oil & Gas Operations, Inc (Montalban) submitted an area-wide underground injection control (UIC) permit application to USEPA Region 8 for conversion of two (2) existing Class II UIC wells and two (2) shut-in oil and gas wells to Class V UIC wells for injection of industrial wastewater to be received from Montana Renewables, a renewable fuels refinery located in Great Falls, Montana. The wells are located in the Loneman Coulee Oil Field north of Great Falls in Pondera County, Montana (**Figure AE.01**).

The application involves a phased approach with initial conversion of the two Class II wells and subsequent conversion of the two shut-in oil and gas wells at a later date to accommodate future wastewater volumes from the refinery.

The Class II wells are currently permitted by the Montana Department of Natural Resources & Conservation (DNRC) Board of Oil and Gas Conservation (BOGC) and have been granted aquifer exemptions for injection of oilfield produced water into the Madison Aquifer. The wells and aquifer exemptions are identified as follows:

Well Jody Field 34-1
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21830
Well Depth: 3,530'
Injection Formation: Madison/Sun River Dolomite
Injection Interval: 90'
Aquifer Exemption Number: 8-1681 (08/15/2011)

Jody Field No. 34-2
Section 34-Township 29 North, Range 6 West
Pondera County, Montana
API No. 25-073-21838
Well Depth: 3,491'
Injection Formation: Madison/Sun River Dolomite
Injection Interval: 73'
Aquifer Exemption Number: 8-1008 (03/15/2010)

The areal extent of the current aquifer exemptions are 0.19635 square miles each. Because the current exemptions are specific to injection of oilfield waste into Class II UIC wells, Montalban is requesting a new Area-Wide Aquifer Exemption for injection of industrial wastewater into the proposed Class V UIC wells (**Figure AE.02**).

The two (2) shut-in oil and gas wells to be included in the Aquifer Exemption Area will be completed in the Madison Aquifer and are identified as follows:

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Well Jody Field 4-1A
 Section 4- Township 28 North, Range 6 West
 Pondera County, Montana
 API No. 25-073-21842
 Well Depth: 3,442'

Well Jody Field No. 14-34
 Section 34-Township 29 North, Range 6 West
 Pondera County, Montana
 API No. 25-073-21740
 Well Depth: 3,415'

The following application demonstrates the regulatory basis for requesting the new aquifer exemption based on water quality criteria and the fact that the aquifer within the area of interest is not anticipated to serve as a public drinking water source as required under Title 40, Code of Federal Regulations (40 CFR), Parts 146.4(a) and 146.4(c). This application also delineates the proposed Aquifer Exemption Area based on the aquifer characteristics, confining layers, area-wide UIC permit boundary, Area of Review (AoR) and anticipated injection volumes over the life of the refinery.

2. LAND USE

The proposed UIC wells are located within the Loneman Coulee Oil Field in Pondera County, Montana. The land within the requested exemption area is used for oil and gas related activities and agriculture. The identities of the landowners are provided in **Figure AE.03** and detailed in **Table 1** below.

TABLE 1. Landowners within the Aquifer Exemption Area		
Landowner	Parcel #	Use
Field, Jody	26-4096-34-4-04-01-0000	Agricultural
Vandenbos, William D & Tamara K JTRos	26-4096-33-4-01-01-000	Agricultural
Vandenbos, Keith E & Leiha R. JTRos	26-4096-33-1-01-01-0000	Agricultural
Field, Jody	26-4096-34-2-03-03-0000	Agricultural
Field, Jody	26-4096-34-1-03-01-0000	Agricultural
Field Ranch Inc.	26-3984-03-2-02-02-0000	Agricultural
Field Ranch Inc.	26-3984-04-1-01-01-0000	Agricultural
Field Ranch Inc.	26-3984-04-2-02-01-0000	Agricultural
Vandenbos, William D & Tamara K JTRos	26-4096-33-4-01-01-000	Agricultural

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2.1 Geology

2.1.1 Geological Structure of the Madison Aquifer

The Madison Aquifer is part of the Northern Great Plains aquifer system, which extends across Montana, Wyoming, North Dakota, and South Dakota and lies beneath confining units in the proposed aquifer exemption area (**Figure AE.04**) (USGS, 1996). The Madison Aquifer in this area is comprised of the Mississippian Madison Limestone, which includes the Lodgepole Limestone, overlain by the Mission Canyon Limestone. The deposits consist of marine carbonates and evaporites deposited in a shallow water environment (Downey, 1984). The Lodgepole Limestone consists mainly of fossiliferous to micritic dolomite and limestone units. The Mission Canyon Limestone consists of a coarsely crystalline limestone at its base, grading upward to finer crystalline limestone. Because of the solubility of the Madison Limestone carbonate rocks, the development of karst features is common, including enlarged joints, sink holes, caves and solution breccias, resulting in secondary permeability within the units. Downey (1984) indicated that within the Madison Aquifer, "fracture interconnection between zones of greater permeability appear to be the major route of water flow." The thickness of the Madison Limestone in northwestern Montana is mapped at approximately 1,000 to 1,200 feet as illustrated on **Figure AE.05** (Downey, 1984).

The Class II UIC wells (Jody Field wells 34-1 and 34-2) are completed within the Sun River Dolomite, the uppermost section of the Mission Canyon formation. The Sun River Dolomite ranges up to an average of approximately 200 feet thick in this area with the Mission Canyon and Lodgepole extending approximately 1,000 feet in thickness beneath that (Pasternack, 1988). A cross section was prepared based on well data gathered from Montana BOGC records (**Figures AE.06 and AE.07**). As indicated in the cross section, the Sun River Dolomite, in close proximity to the proposed Class V wells, is approximately 250 feet thick. The thickest completed injection interval in the existing Class II UIC wells is 90 feet thick.

The Sun River Dolomite has been studied extensively for its hydrocarbon production potential and was determined to have an average porosity of 8 to 14% and average permeability of 10 to 82 millidarcy (md) with the highest values observed in the Pondera Field. **Figure AE.08** indicates the porosity values mapped in the Pondera field and surrounding areas. According to Pasternack (1988), two dominant porosity types lie within the Sun River Dolomite; moldic porosity in discreet areas developed from dissolution of bioclastic debris and fracture porosity, which is evident throughout all areas of the Sun River Dolomite. Bioclastic debris is deposited as shallow marine bars oriented northwest-southeast. As indicated on **Figure AE.08**, the Jody Field wells are located within a bioclastic debris trend that intersects the Pondera and Highview Fields and have a bioclastic debris composition greater than 20%, inferring a high percentage of moldic porosity. The Class II Aquifer Exemptions established for this area by the Montana DOGC are based on a porosity in the range of 14% (telephone conversation with George Hudak, July 2022) and confirmed in regional well logs.

2.1.2 Confining Zones

The Madison Aquifer is bounded by confining layers that separate it from the Lower Paleozoic and Lower Cretaceous aquifers (**Figure AE.09**).

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The Madison Limestone is overlain by the unconforming confining units of the Jurassic Ellis Group, which consists of the Swift, Rierdon and Sawtooth (Piper) formations. The Ellis Group forms a confining layer between the Mississippian and lower Cretaceous aquifers and is present within the UIC wells above the Madison Sun River Dolomite (**Figures AE.10 and AE.11**).

According to USGS (2022), The Sawtooth formation in Western Montana consists of dark gray, platy to shaly, dense limestone with a local basal conglomerate. The Rierdon Formation includes gray, locally fossiliferous limestone that may contain quartz sand interbedded with greenish gray limy shale. The Swift Formation includes glauconitic, flaggy-bedded, commonly fossiliferous, fine-grained sandstone or sand coquina with dark gray shale interbeds. A dark gray, noncalcareous, micaceous shale forms the lower part of the formation, commonly with a basal chert pebble conglomerate or conglomeratic sandstone. Based on review of local well logs, the total thickness of the confining units within the Ellis group is over 220 feet.

Logs reviewed from oil and gas wells in the region indicate that the Sun River Dolomite ranges up to as much as 300 feet thick beneath the Ellis Group. Review of well logs from two nearby wells drilled deeper into the Madison indicate the presence of a dense, cherty unit with a minimum thickness of 108 feet to 147 feet directly beneath the Sun River Dolomite (API #25-073-05457 and API #25-073-05439). This unit was documented to have low to no porosity.

The confining units beneath the Mississippian Madison Formation include Silurian and Devonian units consisting mainly of shaly carbonates, shale, and evaporites (**Figure AE.12**). Because of the fine-grained lithology and the presence of evaporites in the Silurian and Devonian units, these formations are considered to be confining beds between the Mississippian aquifer and the underlying Cambrian-Ordovician aquifer (Downey, 1984). Hydrologic modeling results of Downey (1984, 1986) indicate that vertical hydraulic conductivity between the Cambrian-Ordovician and Madison aquifers is less than 10⁻⁶ ft/d throughout the study area.

The Devonian Duperow formation, which is separated from the Madison Aquifer by the Three Forks formation, was recently classified as an underground source of drinking water (USDW) in central Montana due to intervals of total dissolved solids (TDS) concentrations less than 10,000 mg/L and greater than 3,000 mg/L. The thickness of the confining layer (Three Forks formation) in the proposed Aquifer Exemption Area between the Madison and underlying Duperow aquifer is approximately 200 feet (Pasternack, 1988). Review of well logs of the easternmost well depicted on the cross section (API #25-073-21523) indicate that the Duperow formation in this area of Montana is impermeable from the top of the formation to a thickness of at least 208 feet (Exhibit B).

2.1.3 Depth and Thickness of the Madison Aquifer

The thickness of the Madison Aquifer in the proposed aquifer exemption area ranges between 1,100 and 1,200 feet (Downey, 1984), as indicated on **Figure AE.05**. The depth below the surface to the Madison is reported at 3,428' in Jody Field 34-1 and 3,438' in Jody Field 34-2 (**Figures AE.10 and AE.11**). The aquifer exemption is requested within the Sun River Dolomite, which is approximately 250 feet thick in the proposed Aquifer Exemption Area based on review of well data filed by Conoco for a well located immediately west of the Aquifer Exemption Area (API No. 25-073-05439) (**Figures AE.06 and AE.07**).

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2.2 Water Quality

The primary minerals within the Madison Limestone include calcite, dolomite and anhydrite, with dissolution of anhydrite and dolomite largely contributing to the water quality throughout the aquifer (Busby, 1991). The presence of hydrogen sulfide odor in the wells analyzed by the USGS was also noted during sampling and determined to be due in part to a terrigenous source of sulfur which has been noted in the proposed Aquifer Exemption Area (Telephone conversation with George Hudak, July 2022).

Due to the presence of anhydrites, the TDS concentrations in the Madison Aquifer vary greatly from less than 1,000 mg/L to greater than 300,000 mg/L depending on the location within the formation and groundwater flow characteristics (Downey, 1984). According to George Hudak, UIC Coordinator, Montana BOGC, the TDS concentration in the proposed Aquifer Exemption Area ranges above 5,000 mg/L.

The Montana Bureau of Mines and Geology mapped TDS concentrations in the immediately surrounding areas. The data, collected from oil tests or production wells between 1920 and 1977, indicated TDS concentrations in the Sun River Dolomite ranging from around 4,490 to 6,660 mg/L and TDS concentrations in the Madison Formation ranging from around 3,240 to 7,100 mg/L (Feltis, 1980b). A water sample collected from Well 14-34 (API #25-073-21740), which is centrally located within the Aquifer Exemption Area, reported a TDS concentration of 5,440 mg/L (Exhibit A). A water sample collected from Well 4-1 (API#25-073-21824) indicated a calculated TDS concentration of 5,109 mg/L (Exhibit A).

3. PERMIT AREA FOR THE AQUIFER EXEMPTION

The Madison Aquifer injection zone in Well Jody Field 34-1 ranges from a depth of 3,440 feet to 3,530 feet for a total injection interval of 90 feet within the Madison/Sun River Dolomite. The injection zone in Well Jody Field 34-2 ranges from a depth of 3,418 feet to 3,491, for a total injection interval of 73 feet. Regional groundwater flow direction through the southern and eastern portion of the Madison Aquifer is northeastward (USGS, 1996). A potentiometric surface map generated by the Montana Bureau of Mines and Geology based on local oil and gas well data indicates a northward groundwater flow direction in the vicinity of the Aquifer Exemption Area (Feltis, 1980a). The proposed Aquifer Exemption Area is located on the western edge of the Great Plains, west of the Sweetgrass Arch and east of the Rocky Mountains Region. There are no mapped or known faults within the Aquifer Exemption Area.

According to Pasternack (1988), the average porosity and permeability values for the Madison/Sun River Dolomite in the area of the requested aquifer exemption are 14% and 82 md respectively. Review of well logs indicated porosities in the upper Madison Formation of up to 20%. A conservative estimate of 14% was selected and the Montana BOGC agreed that a porosity of 14% would be representative of the injection intervals in the Jody Field Wells (Telephone conversation with George Hudak, July 2022). A radius of ½ mile was calculated for each well, and based on that distance, an area-wide boundary was plotted to encompass the extent of the radii for the current and future proposed injection wells and to align with a more

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conservative area of review (AoR) **Figure AE.02**). The calculated area within the Area-Wide Aquifer Exemption boundary is 3.3 square miles.

The thickness of the Madison/Sun River Dolomite is approximately 150 feet thick in the proposed Aquifer Exemption Area (Pasternak, 1988), with nearby well logs indicating a thickness up to approximately 250 feet. However, a conservative thickness of 90 feet was used to calculate the available storage volume. Based on these parameters, the available storage volume within the aquifer exemption area is a probable 275.3 MMBBL. Wastewater volumes generated from Montana Renewables will commence at approximately 1,600 to 1,800 barrels per day (BPD) and increase over time to a maximum of 3,600 BPD. The volume sent to each of the Class V wells will be dependent on the operational capacity of the permitted wells. Injection into the Class V wells would be performed within the permitted maximum allowable injection pressures (MAIP) for each well and would not exceed the fracture pressure gradient of the formation, mitigating the risk of fluid migration outside of the permitted Aquifer Exemption Area. Based on a facility life of 40 years, the maximum volume of wastewater from Montana Renewables that would be injected at a maximum flow rate of 3,600 BPD is 52.6 million barrels (MMB), which would be anticipated to encompass an area of approximately 0.84 square miles. Thus, the proposed area of 3.3 square miles represents a very conservative aquifer exemption boundary allowing for any unanticipated geologic complexities.

4. BASIS FOR DECISION

4.1 Regulatory Criteria Under Which the Exemption is Requested

Exemption of the Madison aquifer is requested on the basis that it is not currently used as a drinking water source as required under 40 CFR 146.4(a). Additionally, the Madison Aquifer is located at a depth of over 3,400 feet in the proposed Aquifer Exemption Area, beneath other accessible aquifers and thick confining layers. In accordance with 40 CFR Part 146.4 (b)(2), the Madison aquifer in this area is situated at a depth or location which makes recovery of groundwater for drinking water purposes economically or technologically impractical. Furthermore, TDS concentrations exceeding 5,000 mg/L have been measured in the Madison Aquifer within the Aquifer Exemption Area. Under 40 CFR Part 146.4(c), TDS concentrations greater than 3,000 and less than 10,000 mg/L are not reasonably expected to supply a public water system. Both criteria qualify the Madison Aquifer in this area for an aquifer exemption.

4.2 Assessment of the Madison Aquifer as a Source of Drinking Water

The Madison Aquifer in this area is measured at a depth greater than 3,400 feet and is separated from other shallow, accessible USDWs by several hundred feet of confining layers. The Madison/Sun River Dolomite section of the Madison Group is hydrocarbon producing (Gaswirth, 2010). Oil was first discovered in the Madison Formation in the area in the nearby Pondera Field in the 1920's (Hennip, 1973). The oil and gas wells in this area have either been plugged and abandoned, shut-in, or converted to injection wells (**Figure AE.13**).

Pondera County measures 1,640 square miles and is located approximately 90 miles northwest of Great Falls, which is the third largest city in Montana with a population of 58,700 (**Figure AE.14**). The population of Pondera County has declined steadily over the past several decades

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and according to the Census Bureau had declined to below 6,000 in 2021. Agricultural production employed 45% of the County's labor force in 2017, and agricultural land accounted for 25% of the county's tax base (Montana State University, 2022). The median household income in 2020 was \$30,464 (Wikipedia, 2022).

The population is served by nine (9) small water systems that draw from shallow groundwater wells and local reservoirs, as well as privately owned shallow water wells. The Madison Aquifer is not currently used as a drinking water supply in the proposed Aquifer Exemption Area. Most of the shallow Quaternary aquifers are comprised of unconsolidated alluvial deposits from the surrounding mountains (Noble, 1982bb). According to Noble (1982), these aquifers are primarily water-table aquifers, and groundwater movement follows the topography in a downstream direction. Recharge to the shallow alluvial aquifers is primarily through rainfall and snowmelt. Deeper Tertiary aquifers in the area range from depths of 100 to 300 feet and include coarse grained interbedded sandstones, channel conglomerates, tuffs and siltstones (Noble, 1982b). Alluvial aquifers are the most used aquifers in the Great Plains region of Montana, due to their high yields and proximity to agricultural land (Noble, 1982a).

Given several factors, including the more remote location of the proposed Aquifer Exemption Area, current demographics and availability of a drinking water sources within the shallower alluvial deposits, depth to the Madison Aquifer and its water quality (i.e., documented high TDS concentrations and potential presence of hydrogen sulfide), it is unlikely that the Madison Aquifer will ever be developed as a public drinking water supply for this area.

4.3 Private and Public Wells Drinking Water Wells

Figure AE.15 indicates the locations of nearby private and public water wells. Only one well is located within the proposed Aquifer Exemption Area:

Montana Groundwater Information Center (GWIC) Well ID: 81476
Well Owner: Field, C.W. Jr., Route #1, Valier, MT 59486
Aquifer: Unknown
Use: Domestic and Stockwater
Date Completed: January 19, 1953
Total Depth: 109 feet
Static Water Level: 17 feet

Figure AE.15 indicates four (4) water wells are located in the near vicinity outside of the proposed Aquifer Exemption Area (**Table 2**). Well #83374 is an agricultural well completed to a depth of 207 feet with a static water level of 160 feet.

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TABLE 2. Nearby Private and Public Wells Outside the Aquifer Exemption Boundary – Source: Montana Groundwater Information Center (GWIC)					
Well Owner Information	Aquifer	Date Completed	Well ID and Use	Well Depth (ft)	Static Water Level (ft)
Allen, John E. Valier, MT 59486	Sandstone Unit	12/27/1963	#83374 - Agricultural	207	160
Fed Land Bank 1	Unknown	Unknown	#915142 – NA	Unknown	Unknown
Allen 1	Unknown	Unknown	#915479 – NA	Unknown	Unknown
Pondera County Canal & Reservoir Co. Valier, MT 59486	Unknown	12/16/1963	#83372 – Domestic	Unknown	13

5. CONCLUSION

The proposed Aquifer Exemption Area is calculated based on conservative parameters of 14% porosity and an aquifer thickness of 90 feet, resulting in a calculated storage capacity of 275.3 MMBBL. Sufficient storage exists for injection of wastewater from Montana Renewables within the proposed Aquifer Exemption Area. Thick confining layers are present above and below the Madison Aquifer, preventing migration of injected fluids into surrounding USDWs. Injection into the Class V wells would be performed within the permitted maximum allowable injection pressures (MAIP) for each well and would not exceed the fracture pressure gradient of the formation, mitigating the risk of fluid migration outside of the Aquifer Exemption Area. No water wells are supplied by the Madison Aquifer in this area. Due to its depth (>3,000 ft) and TDS concentrations (> 5,000 mg/L), it is not anticipated that this aquifer would be used as a drinking water supply. Sufficient water resources exist in the area at depths ranging from less than 207 feet.

6. REFERENCES

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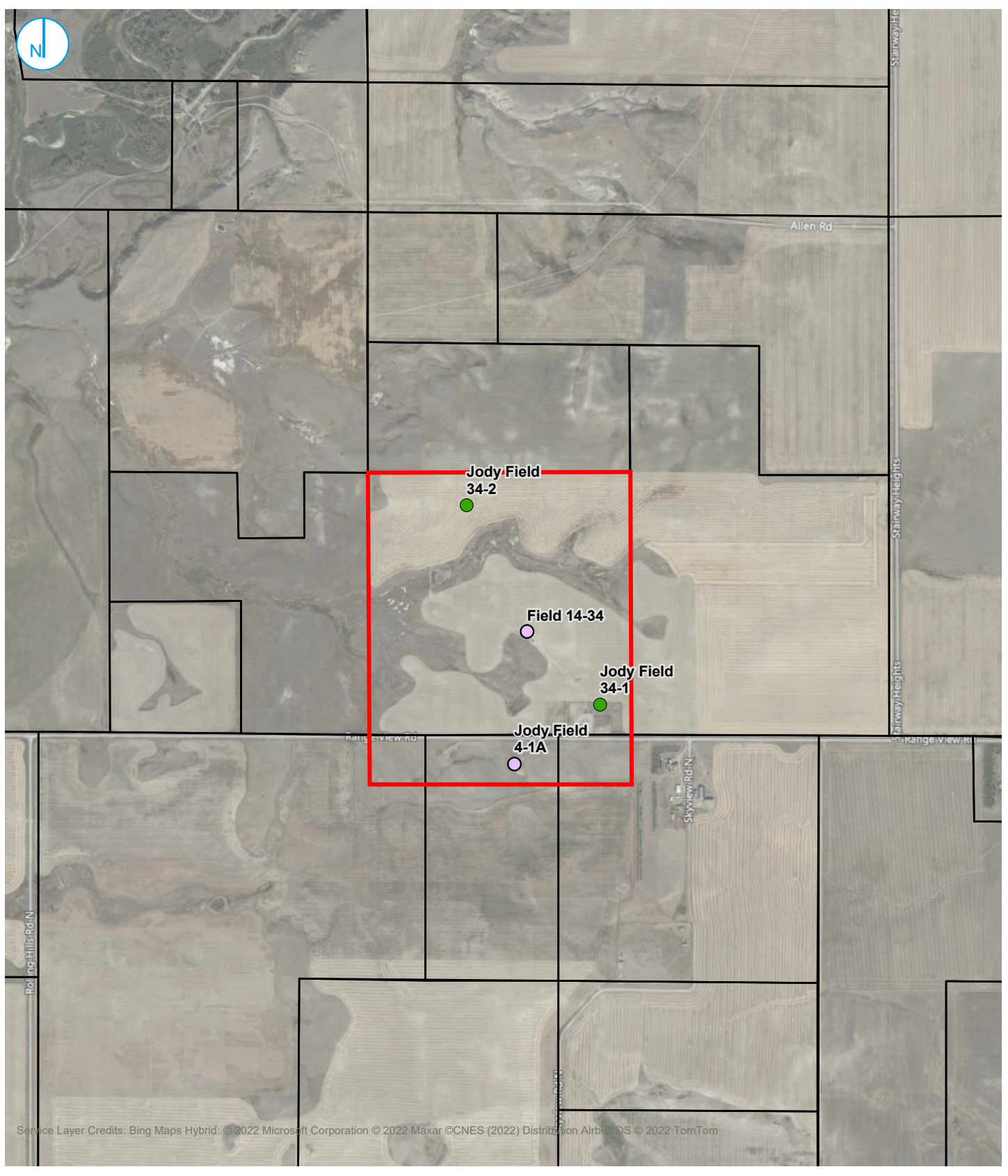
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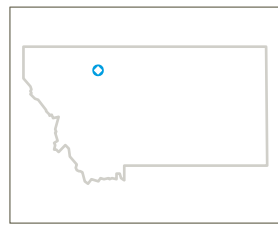
FIGURES

- Figure AE.01. Location of the Proposed Montalban Oil & Gas Operations, Inc. Class V Wells
- Figure AE.02. Existing and Proposed Aquifer Exemption Areas
- Figure AE.03. Landowners and Land Use within the Aquifer Exemption Area
- Figure AE.04. Aquifers and Confining Units of the Northern Great Plains Aquifer System.
- Figure AE.05. Northern Great Plains Aquifer System, Madison Formation Thickness
- Figure AE.06. Geologic Cross Section Location
- Figure AE.07. Geologic Cross Section
- Figure AE.08. Sun River Dolomite Porosity Isopach Map
- Figure AE.09. Northern Great Plains Aquifer System Stratigraphic Column
- Figure AE.10. Jody Field 34-1 Well Log
- Figure AE.11. Jody Field 34-2 Well Log
- Figure AE.12. Thickness of underlying Devonian Confining Layer in the Aquifer Exemption Area
- Figure AE.13. Oil and Gas Wells in the Aquifer Exemption Area
- Figure AE.14. Map of Pondera County
- Figure AE.15. Private and Public Water Wells



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Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



KEY MAP (not to scale)

- Active Injection
- Shut-In Well Location
- Area- Wide UIC
- Parcel Boundaries

LOCATION OF THE PROPOSED MONTALBAN OIL AND GAS OPERATIONS, INC. CLASS V WELLS

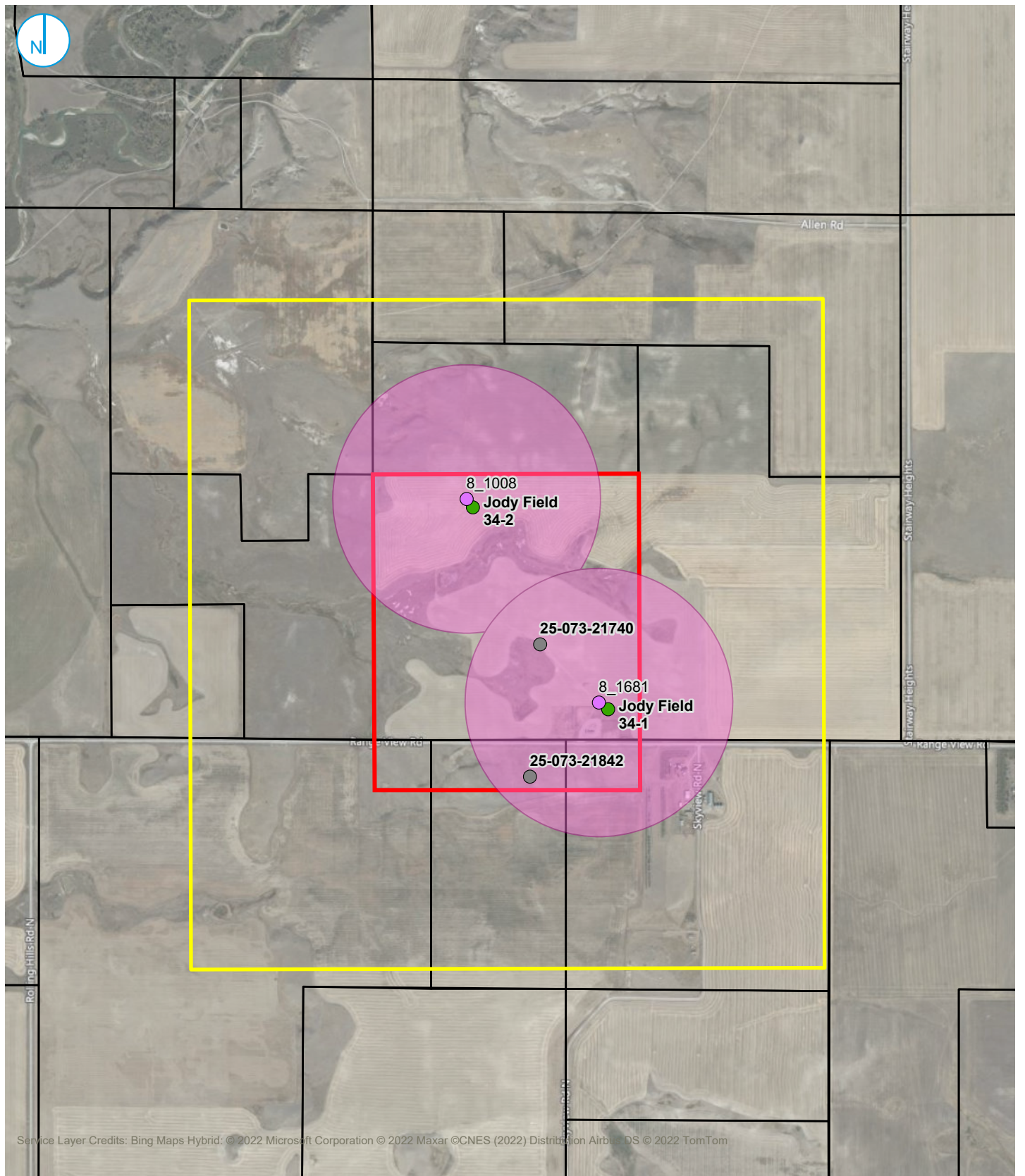
**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**



Attachment H Figure - AE.01

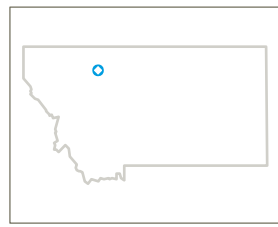
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Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



- Active Injection
- Shut In
- Aquifer Exemption Location
- Aquifer Exemption Areas Madison Formation
- Parcel Boundaries
- Area-Wide UIC
- Proposed Aquifer Exemption Area



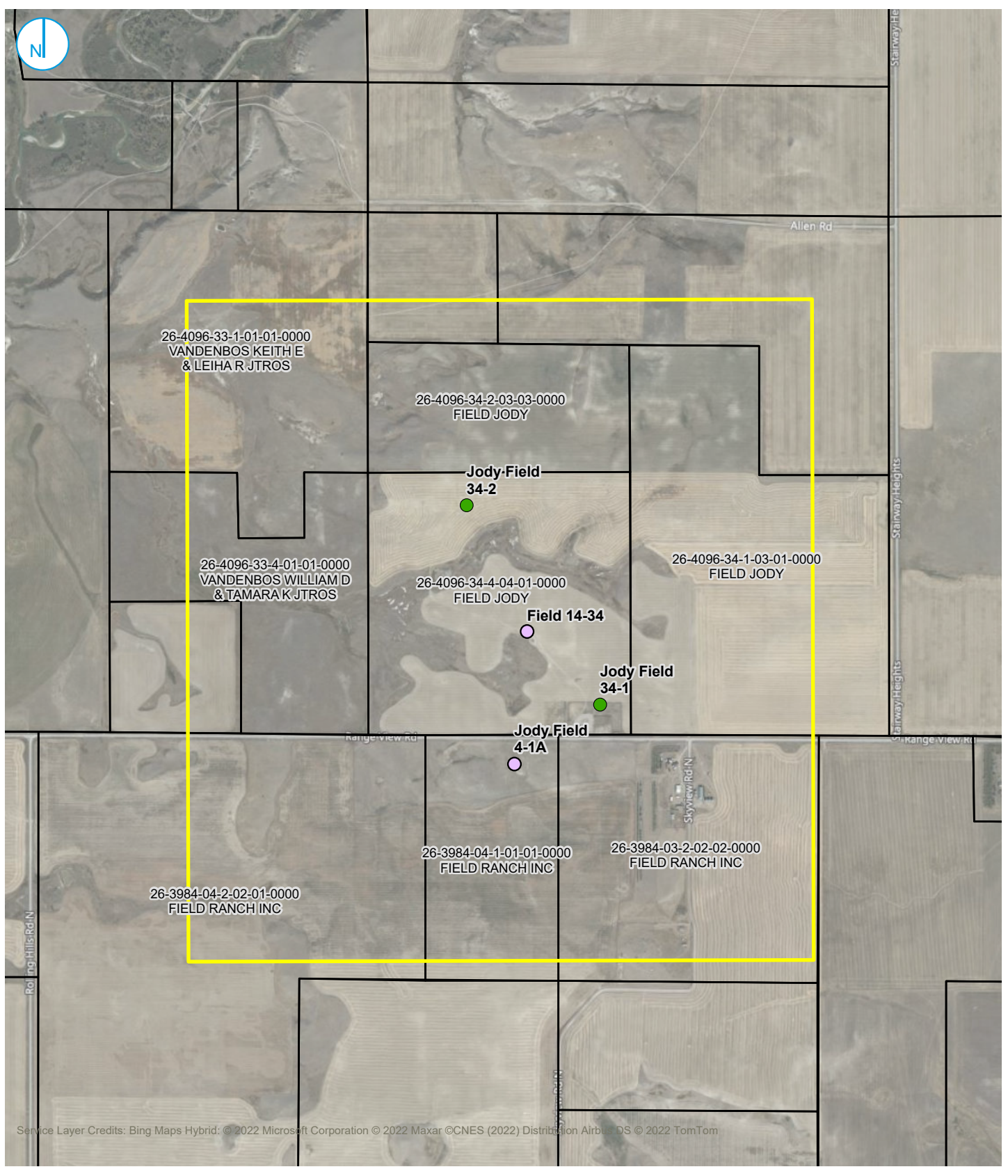
LOCATION OF CURRENT AND PROPOSED AQUIFER EXEMPTION AREA

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H Figure - AE.02

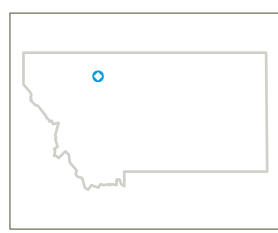
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Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



- Active Injection
- Shut-In Well Location
- Parcel Boundaries
- Aquifer Exemption Area



LANDOWNERS AND LAND USE WITHIN THE AQUIFER EXEMPTION AREA

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H Figure - AE.03

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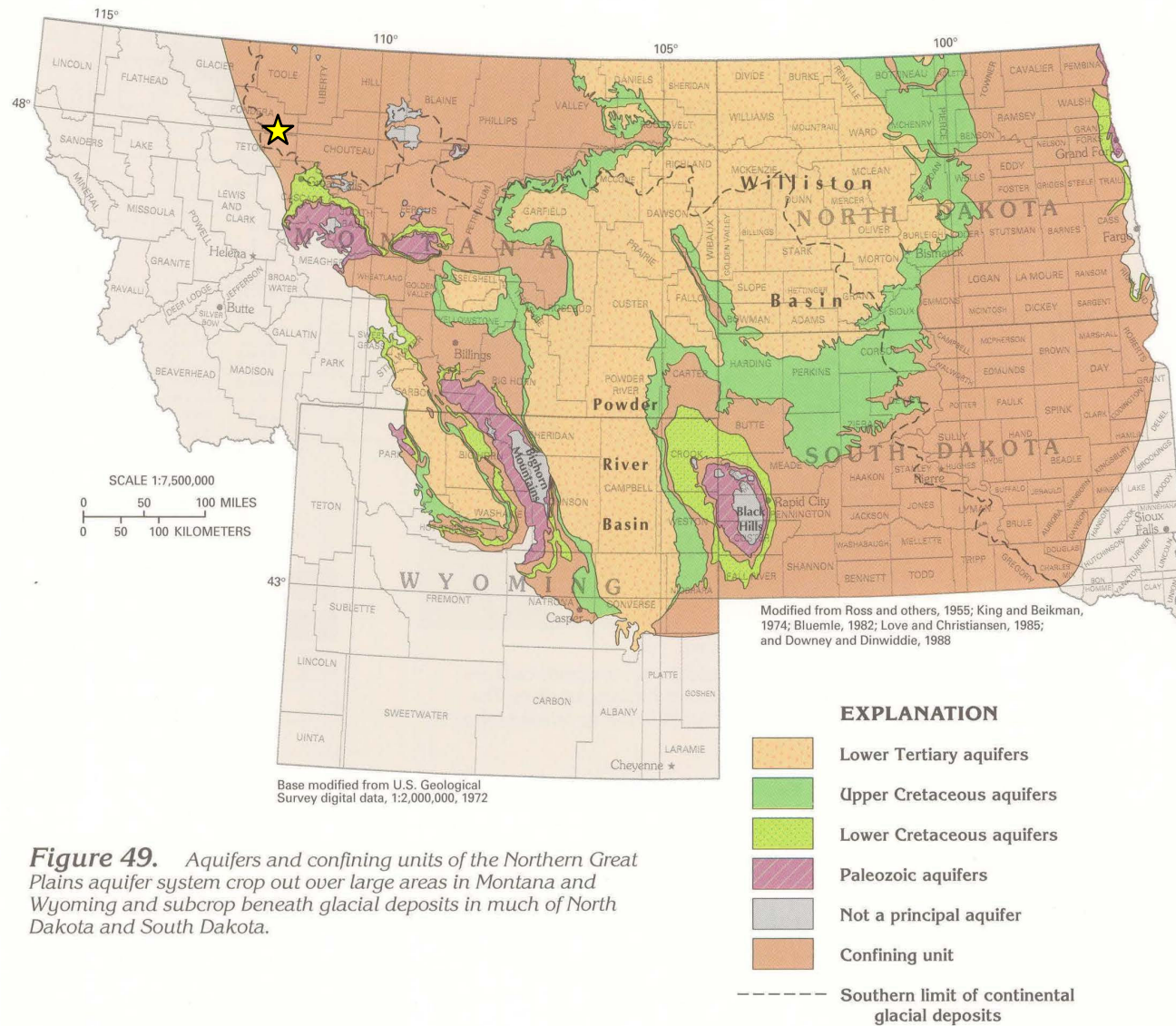


Figure 49. Aquifers and confining units of the Northern Great Plains aquifer system crop out over large areas in Montana and Wyoming and subcrop beneath glacial deposits in much of North Dakota and South Dakota.

Geohydrology of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

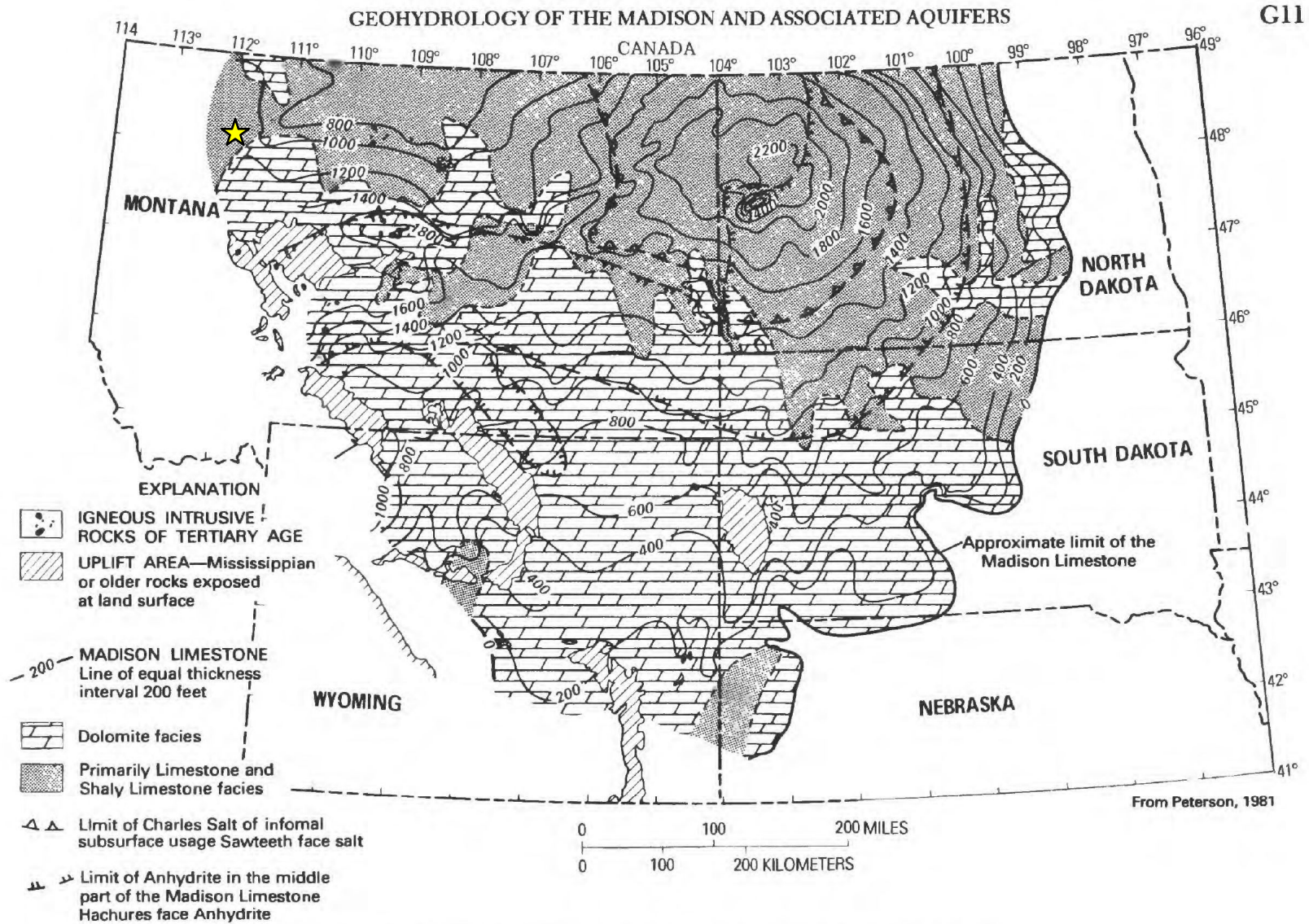
U.S. Geological Survey Professional Paper 730-I; Figure 49

**AQUIFERS AND CONFINING UNITS OF THE
NORTHERN GREAT PLAINS AQUIFER SYSTEM
MONTANBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment H
FIGURE AE.04**

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Geography of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

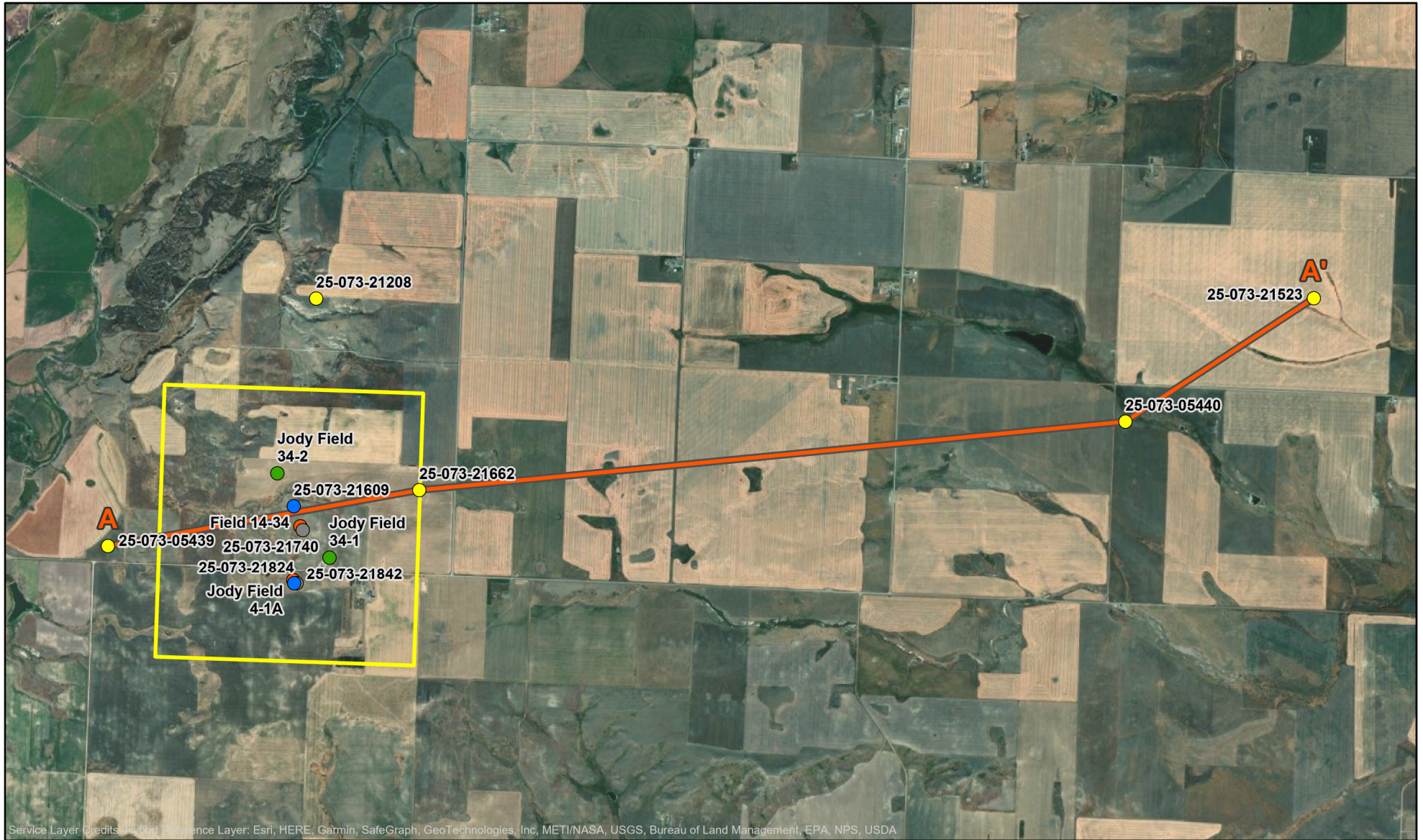
U.S. Geological Survey Professional Paper 1273-G; Figure 11

**NORTHERN GREAT PLAINS
AQUIFER SYSTEM -
MADISON FORMATION THICKNESS
MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment H
FIGURE AE.05**

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Well Location

- Active Injection
- P&A - Approved
- Shut In
- Dry Hole
- Oil

— Cross Section

Aquifer Exemption Areas

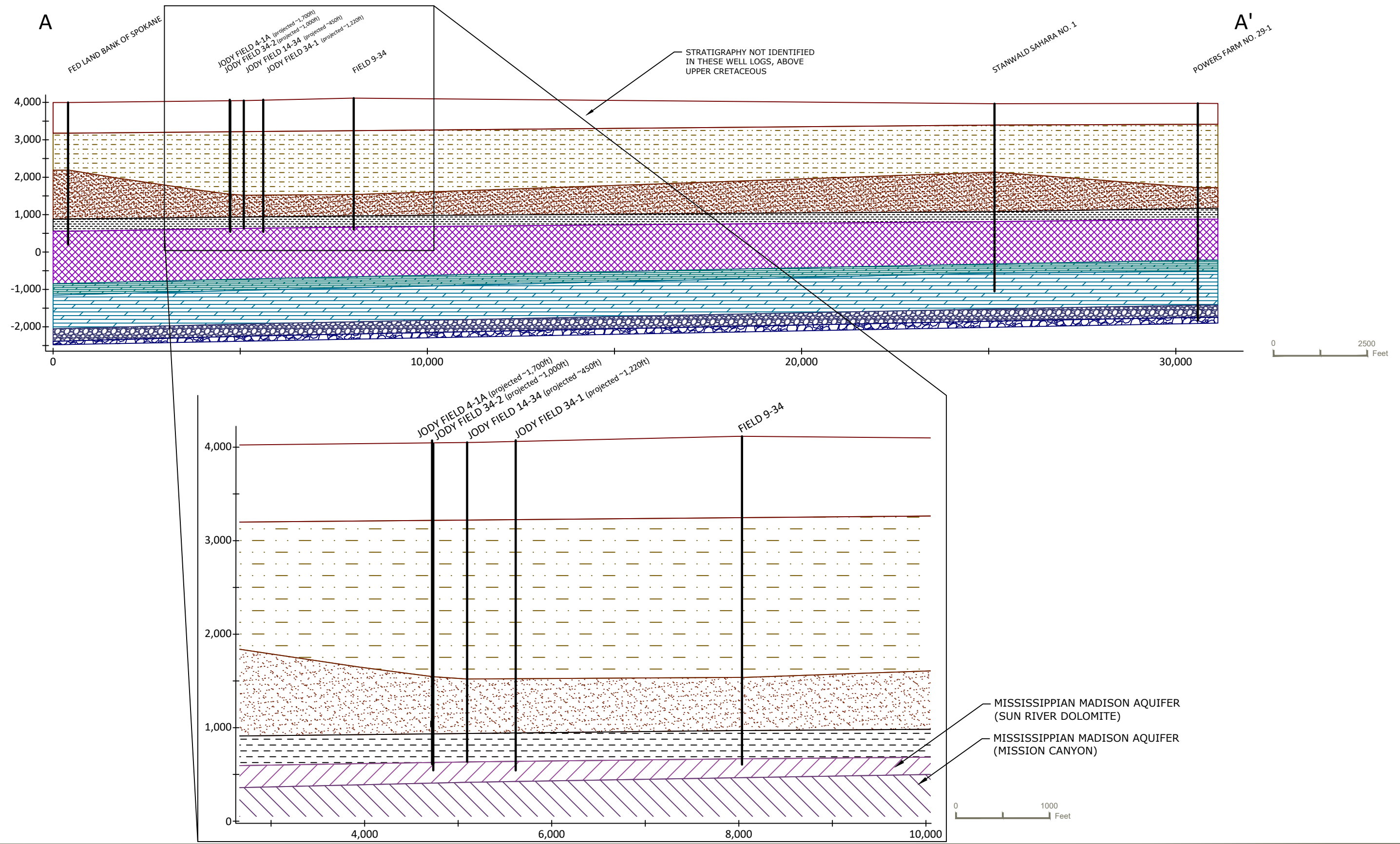
GEOLOGIC CROSS SECTION LOCATION

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

**Attachment H
Figure AE.06**

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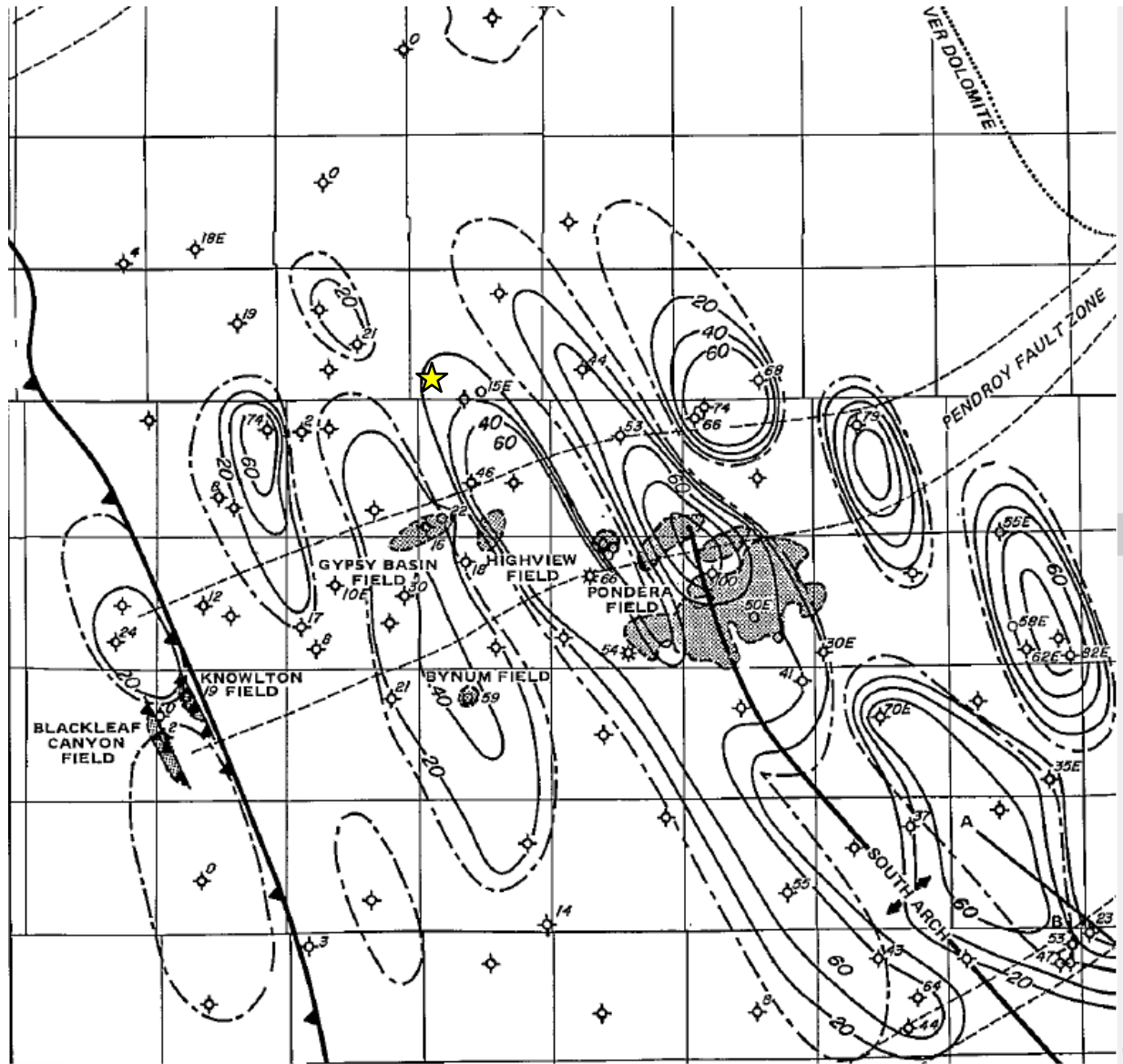
GEOLOGIC MATERIALS:

	UPPER CRETACEOUS
	LOWER CRETACEOUS
	JURASSIC ELLIS GROUP
	MISSISSIPPIAN MADISON AQUIFER (SUN RIVER DOLOMITE)
	MISSISSIPPIAN MADISON AQUIFER (MISSION CANYON)
	DEVONIAN - THREE FORKS FORMATION
	DEVONIAN - DUPELOW AQUIFER
	CAMBRIAN
	PRE-CAMBRIAN

- Notes**
- 1X Vertical Exaggeration
 - Stratigraphy interpolated and extrapolated from well logs within ~2,000ft of cross section line A-A'; using 3D visualization software, Earth Volumetric Studio (EVS).
 - Some wells are projected to the cross section line, projection distance is as identified on this figure (behind well name).

GEOLOGIC CROSS SECTION A-A'

MONTALBAN OIL AND GAS OPERATIONS INC
 AREA WIDE AQUIFER EXEMPTION APPLICATION
 JODY FIELD WELLS



Pasternack, Ira, Nature and Distribution of Mississippian Sun River Dolomite Porosity, West Flan of the Sweetgrass Arch, Northwestern Montana, August 16, 1988

★ Approximate Site Location

Figure 07

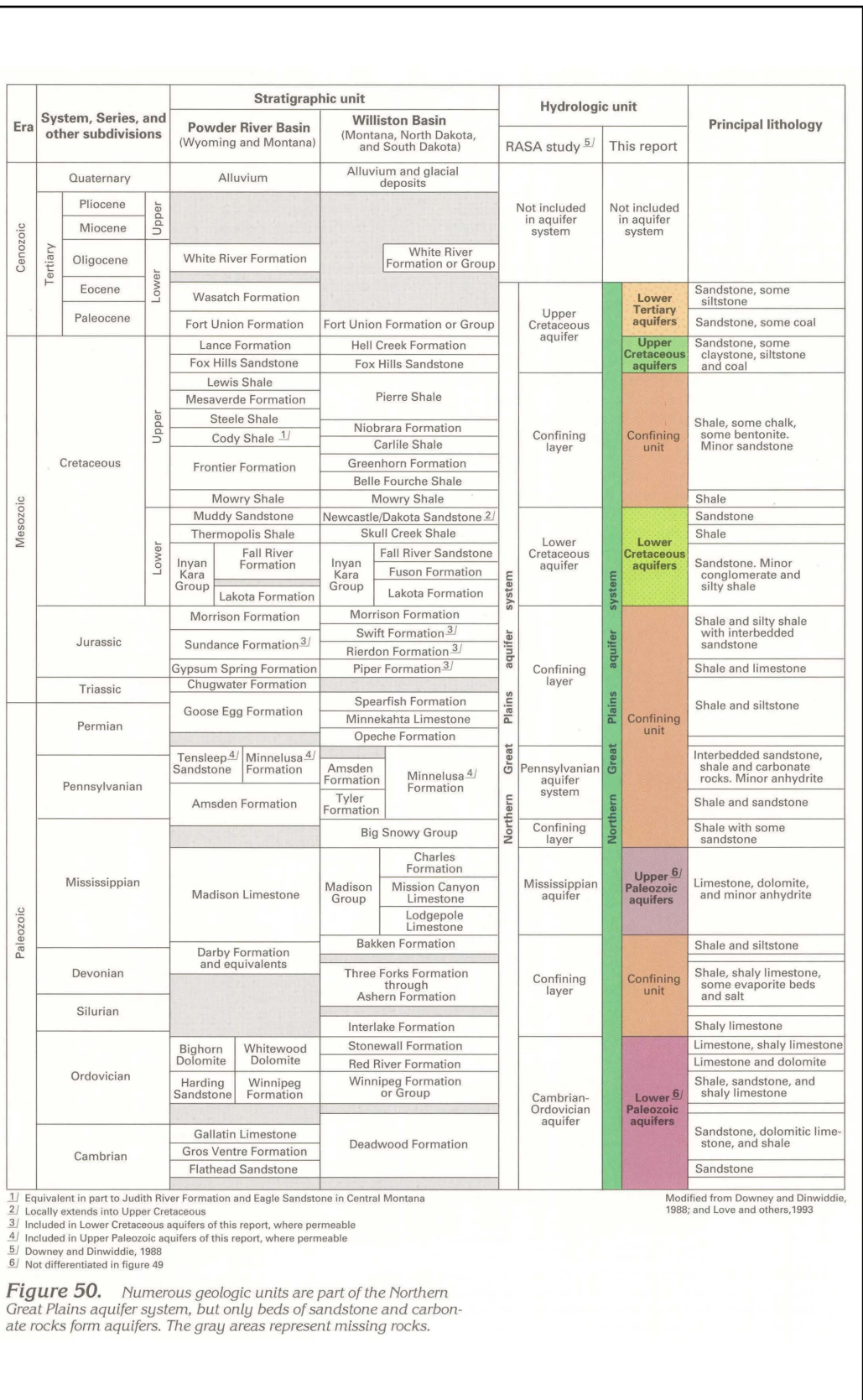
SUN RIVER DOLOMITE POROSITY ISOPACH MAP

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H FIGURE AE.08

RAMBOLL US CONSULTING, INC.
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^{1/} Equivalent in part to Judith River Formation and Eagle Sandstone in Central Montana
^{2/} Locally extends into Upper Cretaceous
^{3/} Included in Lower Cretaceous aquifers of this report, where permeable
^{4/} Included in Upper Paleozoic aquifers of this report, where permeable
^{5/} Downey and Dinwiddie, 1988
^{6/} Not differentiated in figure 49

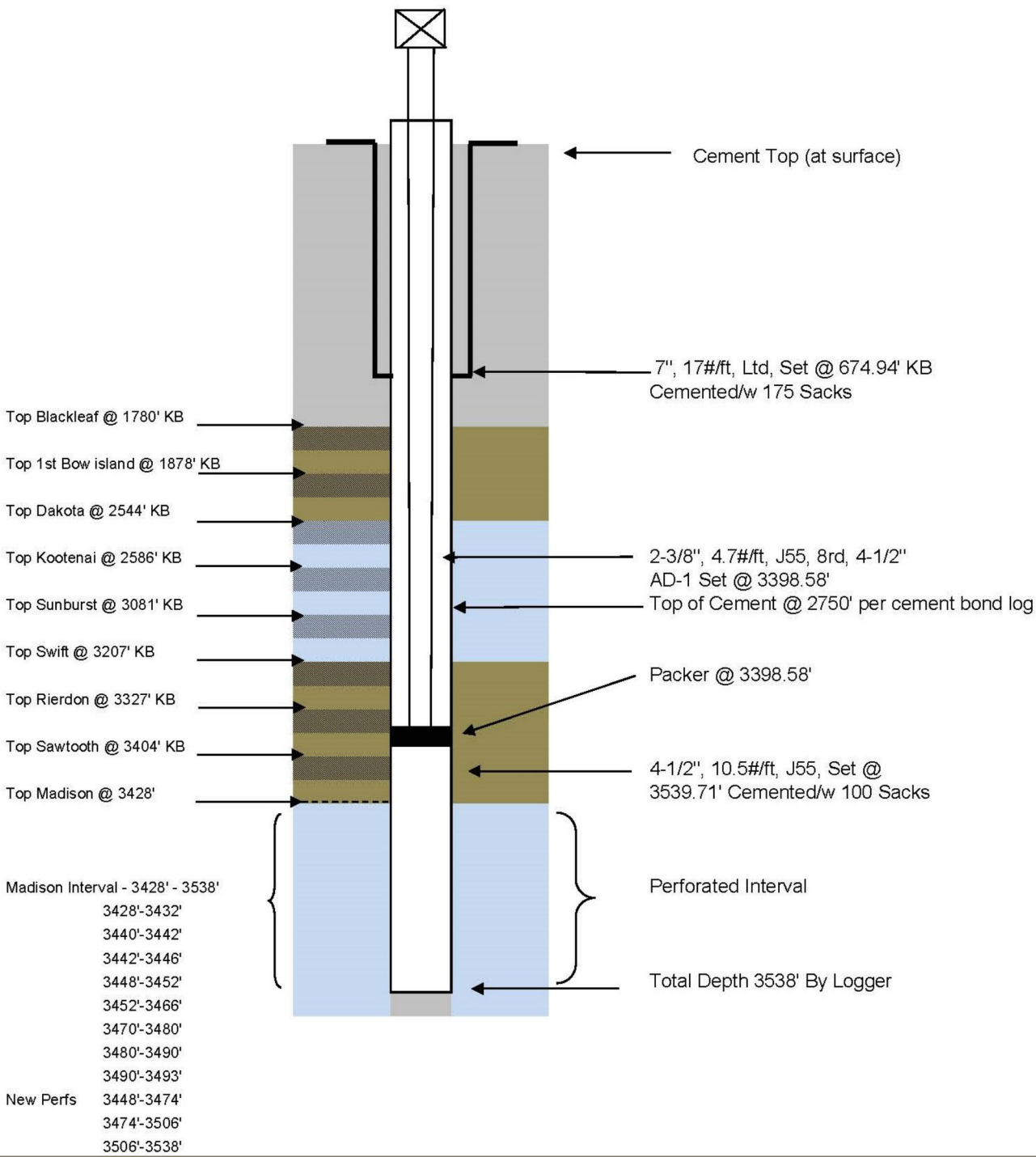
Modified from Downey and Dinwiddie, 1988; and Love and others, 1993

Figure 50. Numerous geologic units are part of the Northern Great Plains aquifer system, but only beds of sandstone and carbonate rocks form aquifers. The gray areas represent missing rocks.

Well:	Jody Field #34-1
API#:	25-073-21830
County:	Pondera
Field	Wildcat
Location:	SESEW-Section 34-T29N-R6W (330' FSL - 2310' FWL)

DATE:	23-Aug-22
BY:	Joseph P. Montalban

SCHEMATIC
After Workover



USDW

Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-1

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H
Figure AE.10

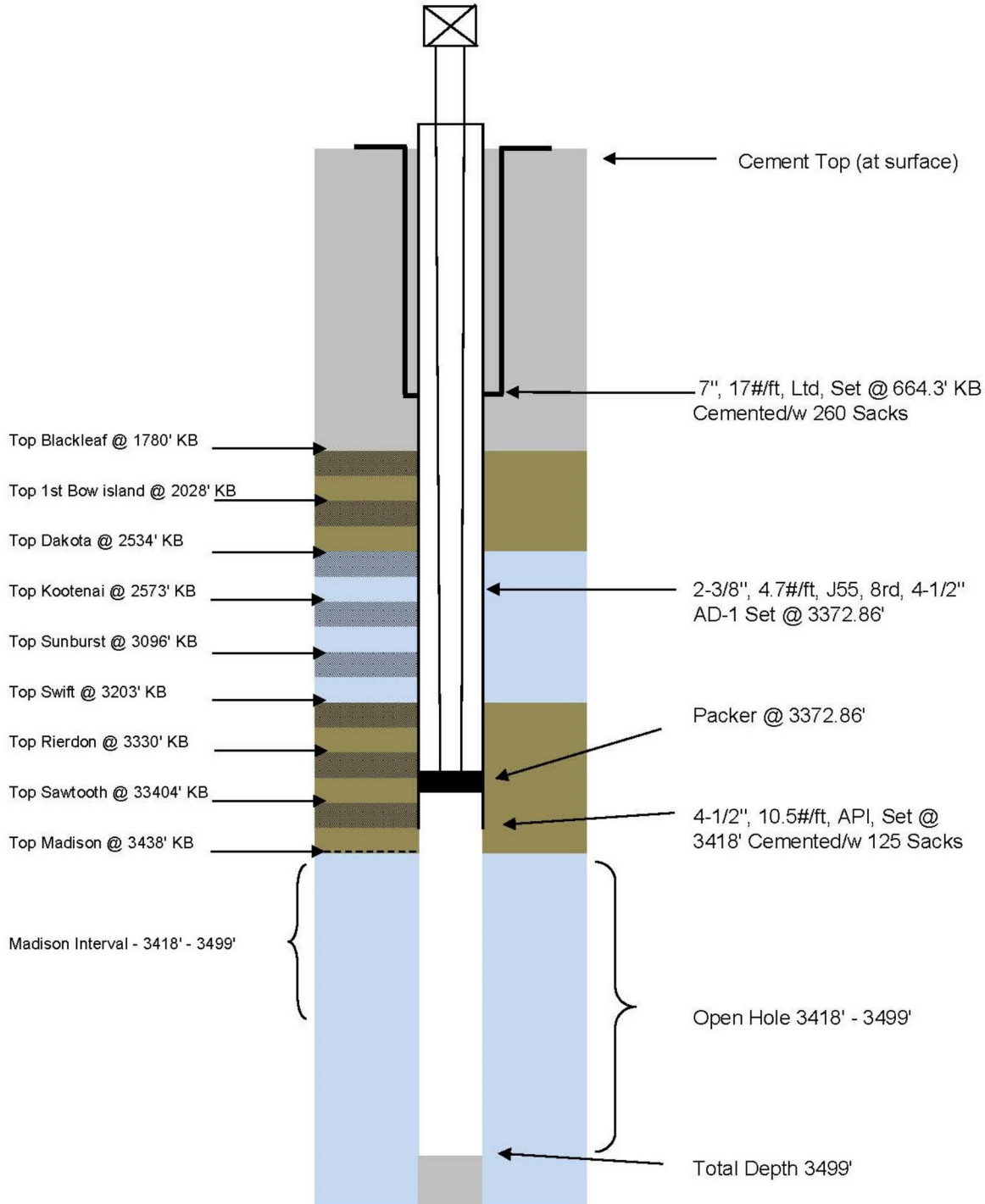
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Well:	Jody Field #34-2
API#:	25-073-21838
County:	Pondera
Field	Wildcat
Location:	NENWSW-Section 34-T29N-R6W (2310' FSL - 990' FWL)

DATE:	23-Aug-22	
BY:	Joseph P. Montalban	
	Petroleum Consultant	

SCHEMATIC
After Workover



USDW
 Confining Zone

WELL SCHEMATIC DIAGRAM
WELL JODY FIELD 34-2

MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS

Attachment H
Figure AE.11

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



G10

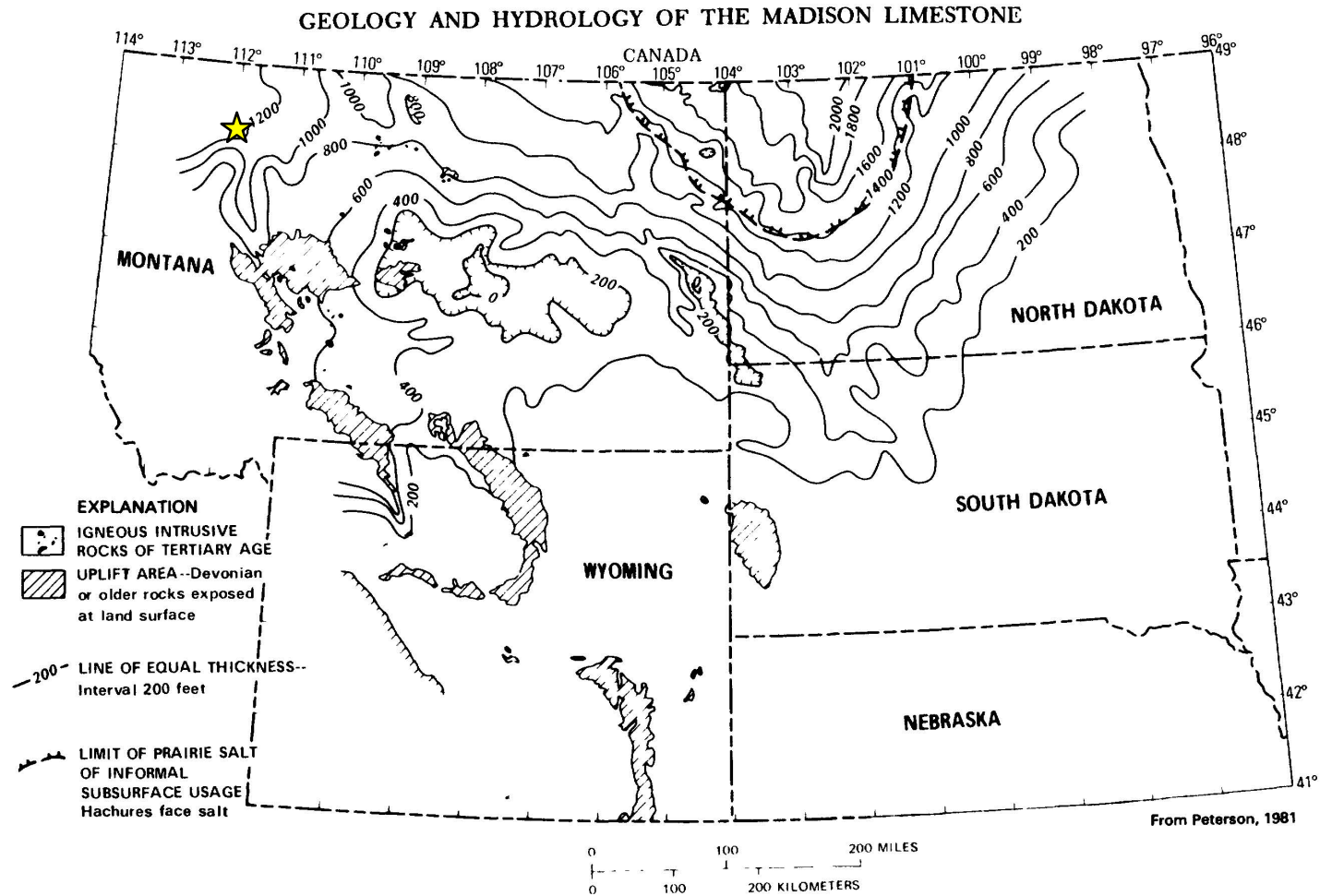


FIGURE 9. – Thickness of Devonian rocks.

Geohydrology of the Madison and Associated Aquifers in Parts of Montana, North Dakota, South Dakota, and Wyoming ★ Approximate Site Location

By Joe S. Downey

Geology and Hydrology of the Madison Limestone and Associated Rocks in parts of Montana, Nebraska, North Dakota, South Dakota, and Wyoming

U.S. Geological Survey Professional Paper 1273-G; Figure 9

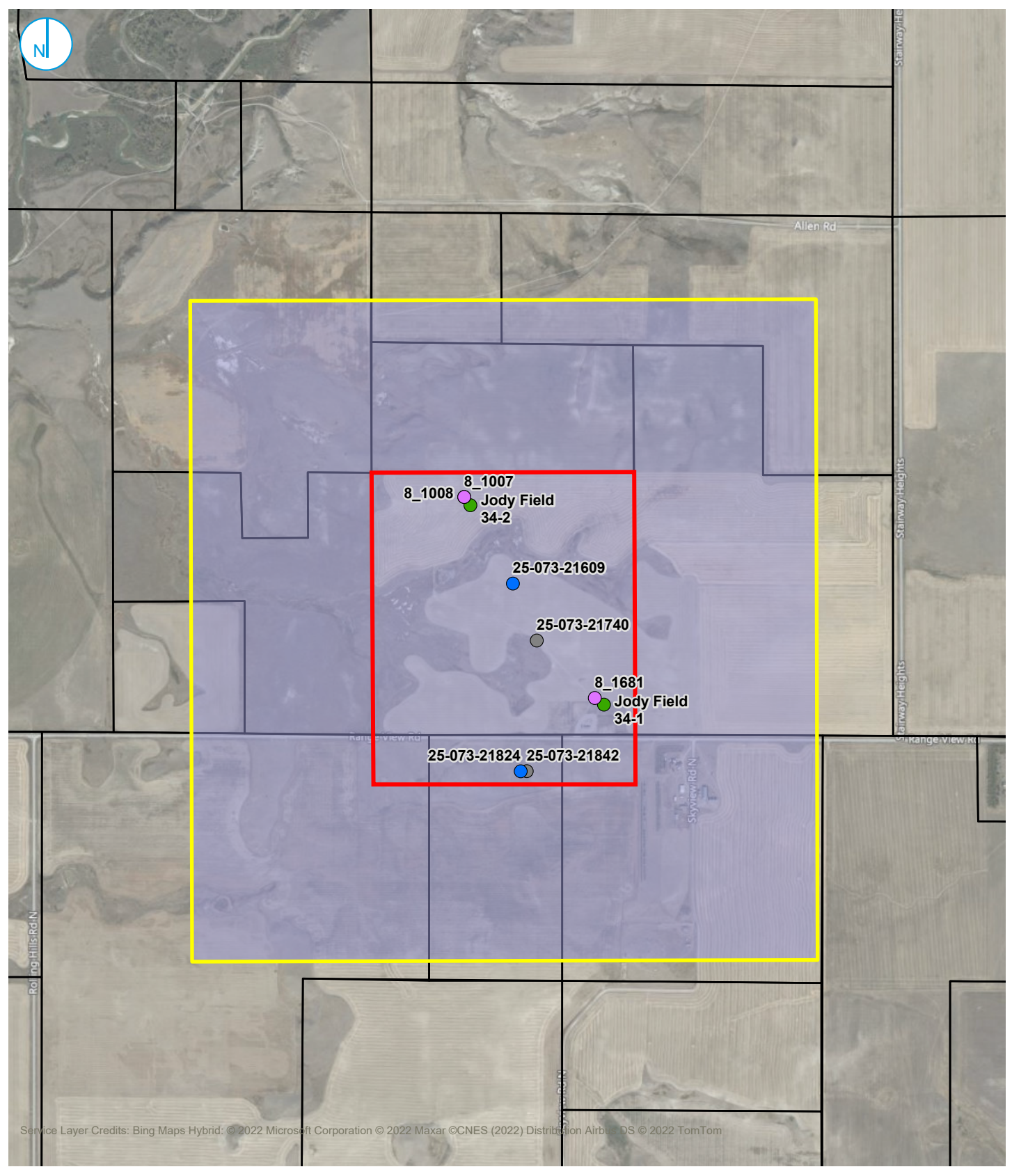
THICKNESS OF UNDERLYING DEVONIAN CONFINING LAYER IN THE AQUIFER EXEMPTION AREA

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION JODY FIELD WELLS

**Attachment H
FIGURE AE.12**

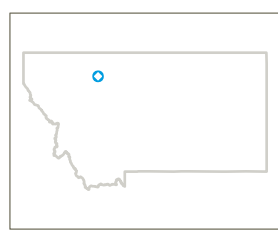
RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY





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Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



- Active Injection
- P&A - Approved
- Shut In
- Aquifer Exemption Location
- Parcel Boundaries
- Area-Wide UIC
- Area of Review
- Aquifer Exemption Area



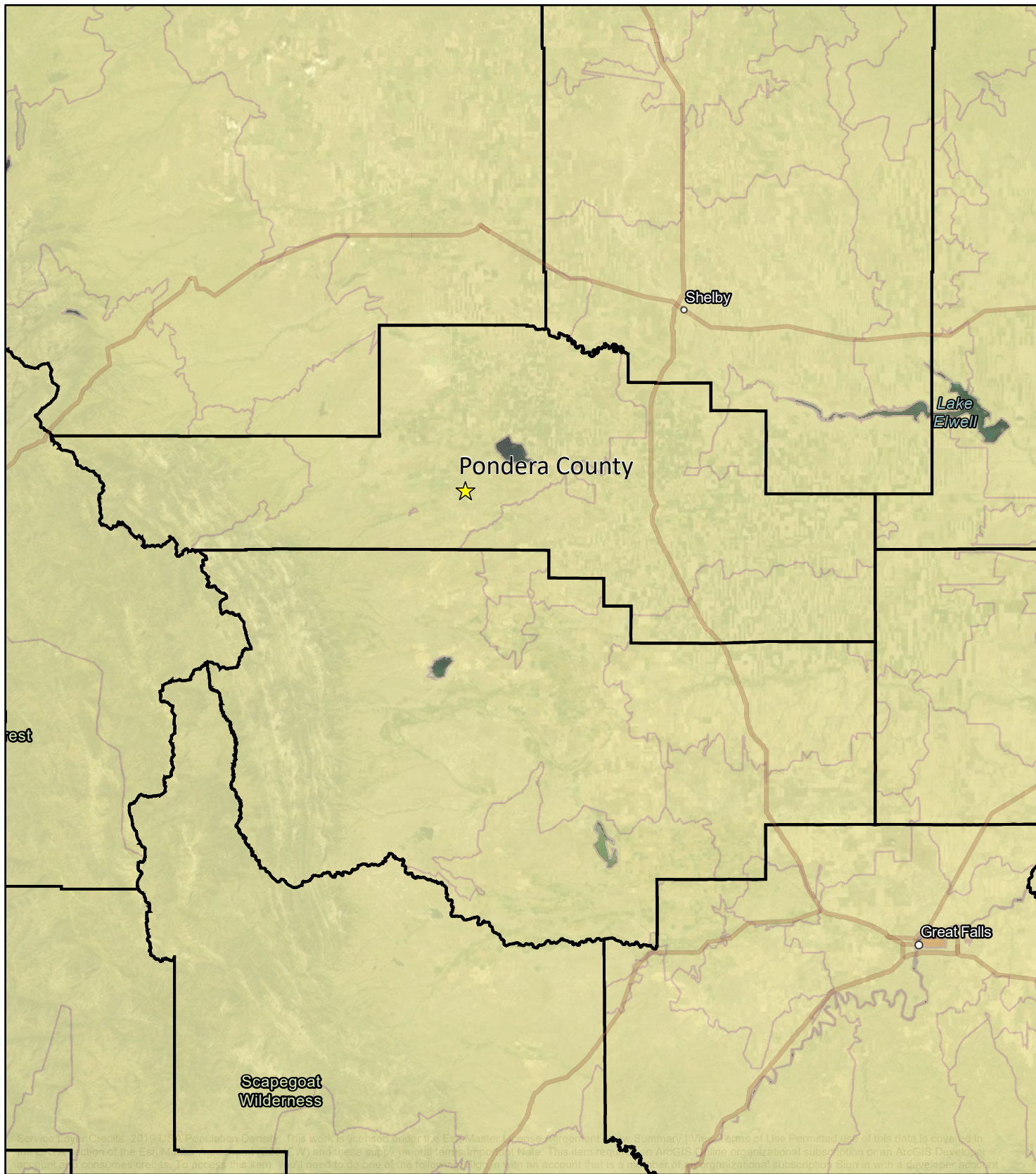
**OIL AND GAS WELLS IN THE
AQUIFER EXEMPTION
BOUNDARY**

**MONTALBAN OIL AND GAS
OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS**

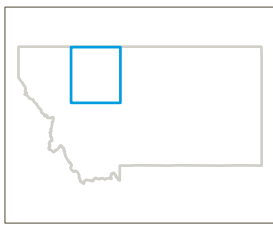
**Attachment H
Figure AE.13**

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A RAMBOLL COMPANY












Service Layer Credits: 2019 US Population Density. This work is licensed under the Esri Master License Agreement. Summary | View Terms of Use Permitted use of this data is covered in the Esri Master License Agreement (MLA) and these supplemental terms. Important Note: This item requires an ArcGIS online organizational subscription or an ArcGIS Developer account. For more information, please visit <https://www.esri.com/en-us/arcgis/products/arcgis-online/faq>. You will need to do one of the following things: 1) Sign in with a developer account 2) Sign in with an organizational subscription 3) Sign in with a developer account



KEY MAP (not to scale)

-  Site Location
-  County Lines
-  0 - 1,000 people per sq mi
-  1,000 - 8,400 people per sq mi
-  8,400 - 15,800 people per sq mi
-  15,800 - 24,000 people per sq mi
-  24,000 - 629,000 people per sq mi

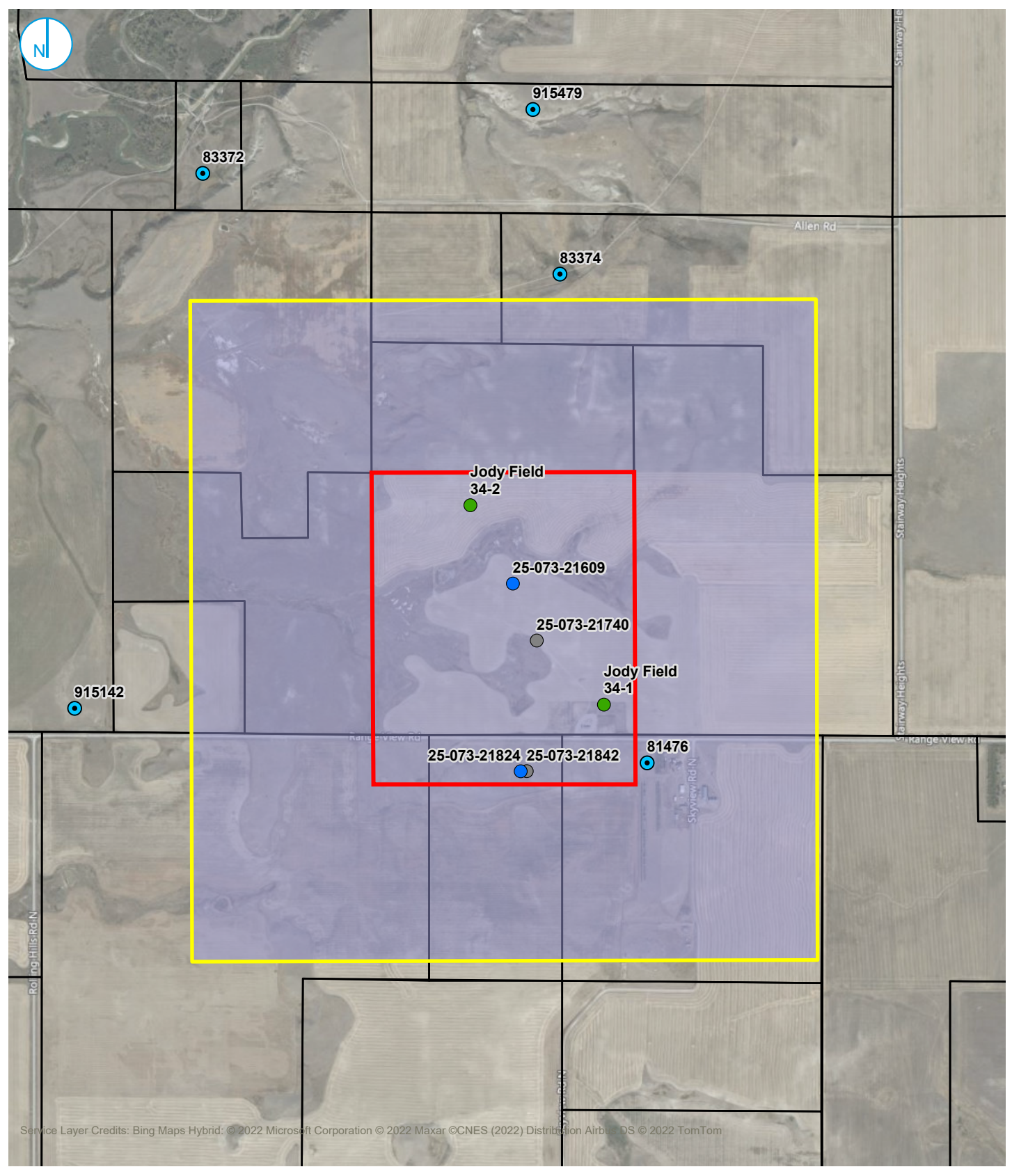
MAP OF PONDERA COUNTY
MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE
AQUIFER EXEMPTION APPLICATION
JODY FIELD WELLS



Attachment H
Figure AE.14

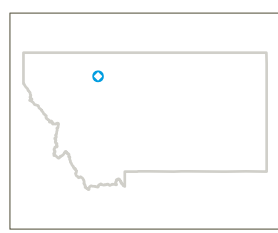
RAMBOLL US CONSULTING, INC.
 A RAMBOLL COMPANY





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Map Scale: 1:24,000 | Map Center: 112°22'30"W 48°13'33"N



KEY MAP (not to scale)

- Active Injection
- P&A - Approved
- Shut In
- Water Well Location
- Parcel Boundaries
- Area-Wide UIC
- Area of Review
- Aquifer Exemption Area



PRIVATE AND PUBLIC WATER WELLS

MONTALBAN OIL AND GAS OPERATIONS INC - AREA WIDE AQUIFER EXEMPTION APPLICATION JODY FIELD WELLS

Attachment H Figure AE.15

RAMBOLL US CONSULTING, INC.
A RAMBOLL COMPANY



Privileged and Confidential

EXHIBIT A

Water Quality Analyses Wells Jody Field 14-34 and 4-1



ANALYTICAL SUMMARY REPORT

March 11, 2009

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cut Bank, MT 59427

Workorder No.: B09030751

Project Name: Permit

Energy Laboratories Inc received the following 1 sample for Altamont Oil & Gas Inc on 3/10/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B09030751-001	SESW-Section 34-T29N-R6W, Jody Fields #14-34	03/05/09 0:00	03/10/09	Aqueous	Solids, Total Dissolved

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
Project: Permit
Lab ID: B09030751-001
Client Sample ID: SESW-Section 34-T29N-R6W, Jody Fields #14-34

Report Date: 03/11/09
Collection Date: 03/05/09
Date Received: 03/10/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	5440	mg/L		10		A2540 C	03/10/09 16:24 / afb

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc

Report Date: 03/11/09

Project: Permit

Work Order: B09030751

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: TDS090310A
Sample ID: MBLK2	Method Blank								Run: CPA124S_090310B 03/10/09 16:23
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10						
Sample ID: LFB2	Laboratory Fortified Blank								Run: CPA124S_090310B 03/10/09 16:23
Solids, Total Dissolved TDS @ 180 C	1090	mg/L	10	99	90	110			
Sample ID: B09030751-001A MS	Sample Matrix Spike								Run: CPA124S_090310B 03/10/09 16:24
Solids, Total Dissolved TDS @ 180 C	7770	mg/L	10	101	80	120			
Sample ID: B09030751-001A MSD	Sample Matrix Spike Duplicate								Run: CPA124S_090310B 03/10/09 16:25
Solids, Total Dissolved TDS @ 180 C	7770	mg/L	10	101	80	120	0.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc Workorder Receipt Checklist



B09030751

Altamont Oil and Gas Inc

Login completed by: Krystal McDonald

Date and Time Received: 3/10/2009 11:15 AM

Reviewed by: Denise Ruby

Received by: Ig

Reviewed Date: 3/10/2009 12:55:00 PM

Carrier name: Std US Mail

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	15°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None



ANALYTICAL SUMMARY REPORT

December 05, 2007

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cutbank, MT 59427

Workorder No.: B07120154

Project Name: Altamont Jody Fields

Energy laboratories Inc received the following 1 sample from Altamont Oil & Gas Inc on 12/4/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B07120154-001	#4 - 1 Well	12/03/07 12:00	12/04/07	Aqueous	Conductivity Resistivity Salinity

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

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DEC 10 2007

ALTAMONT OIL & GAS, INC



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields
 Lab ID: B07120154-001
 Client Sample ID: #4 - 1 Well

Report Date: 12/05/07
 Collection Date: 12/03/07 12:00
 Date Received: 12/04/07
 Matrix: Aqueous

Analysis	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Salinity	4.69			0.10		Calculation	12/05/07 08:36 / klc
Conductivity	8480	umhos/cm		1		A2510 B	12/04/07 12:01 / kh
Resistivity @ 68 F	1.18	ohm-m		0.04		E120.1	12/05/07 14:45 / klc

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 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
Project: Altamont Jody Fields

Report Date: 12/05/07
Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2510 B							Batch: PHSCO71204A		
Sample ID: PHC1070910A Conductivity	Laboratory Control Sample 157	umhos/cm	1.0	103	90	110			Run: ORION555A_071204A 12/04/07 08:58
Sample ID: PHC1070810A Conductivity	Laboratory Control Sample 5120	umhos/cm	1.0	102	90	110			Run: ORION555A_071204A 12/04/07 08:59
Sample ID: B07120150-001ADUP Conductivity	Sample Duplicate 907	umhos/cm	1.0				0.5	10	Run: ORION555A_071204A 12/04/07 11:57

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B07120154

Altamont Oil and Gas Inc

Login completed by: Eric L. Frank

Date and Time Received: 12/4/2007 9:15 AM

Reviewed by: Staci Fread

Received by: elf

Reviewed Date: 12/4/2007 8:02:40 PM

Carrier name: UPS NDA

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	14°C
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

RECEIVED
 DEC 10 2007
 ALTAMONT OIL & GAS, INC

Contact and Corrective Action Comments:

Letter of instruction provided from client.



LABORATORY ANALYTICAL REPORT

Client: Altamont Oil & Gas Inc
Project: Altamont Jody Fields
Lab ID: B07120154-001
Client Sample ID: #4 - 1 Well

Report Date: 12/07/07
Collection Date: 12/03/07 12:00
Date Received: 12/04/07
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Salinity	4.69			0.10		Calculation	12/05/07 08:36 / klc
Conductivity	8480	umhos/cm		1		A2510 B	12/04/07 12:01 / kh
Resistivity @ 68 F	1.18	ohm-m		0.04		E120.1	12/05/07 14:45 / klc

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



ANALYTICAL SUMMARY REPORT

January 03, 2008

Patrick Montalban
Altamont Oil & Gas Inc
PO Box 488
Cutbank, MT 59427

Workorder No.: B07120154

Project Name: Altamont Jody Fields

Energy Laboratories Inc received the following 1 sample from Altamont Oil & Gas Inc on 12/4/2007 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B07120154-001	#4 - 1 Well	12/03/07 12:00	12/04/07	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Anions by ion chromatography Conductivity Specific Gravity pH Preparation, Dissolved Filtration Resistivity ROF report format Salinity Solids, Total Dissolved - Calculated

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except if noted in report comments or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By: _____

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JAN 14 2008

ALTAMONT OIL & GAS, INC



Company: Altamont Oil & Gas Inc	Date: 1/3/2008
Field: Altamont Jody Fields	Sample Date: 12/3/2007
County: 0	Formation:
Location: #4 - 1 Well	Rock Type:
Lab ID: B07120154-001	Depth:
Comments:	

Water Analysis Report

<u>CATIONS</u>	<u>mg/l</u>	<u>meq/l</u>	<u>ANIONS</u>	<u>mg/l</u>	<u>meq/l</u>
Potassium	81	2.07	Sulfate	25	0.52
Sodium	1,970	85.69	Chloride	1,380	38.92
Calcium	45	2.25	Carbonate	<1	0.00
Magnesium	48	3.95	Bicarbonate	3,120	51.15
Iron	nd	nd	Bromide	nd	nd
Barium	nd	nd	Organic Acids	nd	nd
Strontium	nd	nd	Hydroxide	<1	0.00
SUM +	2,144	93.96	SUM -	4,525	90.59

Solids

Total Dissolved Solids @180°C	nd mg/l
Total Solids, Calculated	5,109 mg/l
Total Solids, NaCl equivalents	4,298 mg/l
Chloride as NaCl	2,275 mg/l
NaCl, % of Total Dissolved Solids	44.52 %
Accuracy	-2.23 Sigma

Sample Conditions

pH, s.u. (Field)	7.50 s.u.
Sample Pressure	14.70 psia
Surface Temp	70.00 °F
Downhole Temp	na °F
Ionic Strength	0.096 µ

Dissolved Gases

Bisulfide ion	nd	Dissolved O ₂ , aq	nd
Hydrogen Sulfide	nd	Total CO ₂ , aq	2,427 mg/l
Total Sulfide	nd		

Other Properties

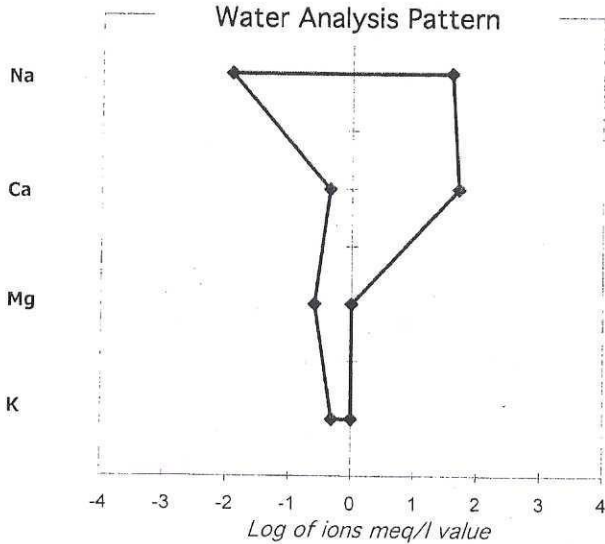
Calcium Hardness as CaCO ₃	112 mg/l	Specific Gravity	1.007 measured
Magnesium Hardness as CaCO ₃	198 mg/l	Specific Gravity	1.005 calculated
Total Hardness as CaCO ₃	310 mg/l	Resistivity, 68°F	1.18 ohm-m
		Conductivity 25°C	8,480 umhos/cm

Microbiological

Sulfate Reducing	nd
Aerobic Bacteria	nd

Scaling Conditions

Calcium Carbonate	CaCO ₃ +
Calcium Sulfate	CaSO ₄ - - -
Barium Sulfate	BaSO ₄ -
Strontium Sulfate	SrSO ₄ -



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Probable Mineral Residue, Dry

Calculation error = -3.7 %

ALTAMONT OIL & GAS, I

<u>COMPOUND</u>	<u>mg/l</u>
NaHCO ₃	3,705
NaCl	2,275
Mg(HCO ₃) ₂	289
Ca(HCO ₃) ₂	182
Na ₂ SO ₄	37.0

Note: nd denotes 'Not Determined'



QA/QC Summary Report

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B							Batch: ALK071220A		
Sample ID: MBLK	Method Blank								
Alkalinity, Total as CaCO3	2	mg/L	1						
Bicarbonate as HCO3	2	mg/L	1						
Carbonate as CO3	ND	mg/L	1						
Hydroxide as OH	ND	mg/L	1						
Sample ID: LCS	Laboratory Control Sample								
Alkalinity, Total as CaCO3	97.7	mg/L	1.0	96	90	110			
Sample ID: B07121500-001ADUP	Sample Duplicate								
Alkalinity, Total as CaCO3	2080	mg/L	1.0				4.5	20	
Bicarbonate as HCO3	2540	mg/L	1.0				4.5	20	
Carbonate as CO3	ND	mg/L	1.0				0.0	20	
Hydroxide as OH	ND	mg/L	1.0				0.0	20	
Method: A2510 B							Batch: PHSC071204A		
Sample ID: PHC1070910A	Laboratory Control Sample								
Conductivity	157	umhos/cm	1.0	103	90	110			
Sample ID: PHC1070810A	Laboratory Control Sample								
Conductivity	5120	umhos/cm	1.0	102	90	110			
Sample ID: B07120150-001ADUP	Sample Duplicate								
Conductivity	907	umhos/cm	1.0				0.5	10	
Method: A4500 H							Analytical Run: ORION555A_071220B		
Sample ID: PHC1071130A	Initial Calibration Verification Standard								
pH	7.01	s.u.	0.10	100	98	102			
Method: A4500 H							Batch: PHSC071220A		
Sample ID: B07121618-003ADUP	Sample Duplicate								
pH	7.76	s.u.	0.10				1.2	10	

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JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7							Batch: 30333		
Sample ID: MB-30333	Method Blank		Run: ICP202-B_071227A				12/27/07 11:51		
Calcium	0.04	mg/L		0.009					
Magnesium	ND	mg/L		0.01					
Potassium	0.03	mg/L		0.02					
Sodium	ND	mg/L		0.1					
Sample ID: B07121574-001BMS2	Sample Matrix Spike		Run: ICP202-B_071227A				12/27/07 12:06		
Calcium	92.7	mg/L	1.0	97	70	130			
Magnesium	67.5	mg/L	1.0	101	70	130			
Potassium	53.0	mg/L	1.0	103	70	130			
Sodium	59.6	mg/L	1.0	103	70	130			
Sample ID: B07121574-001BMSD2	Sample Matrix Spike Duplicate		Run: ICP202-B_071227A				12/27/07 12:09		
Calcium	93.3	mg/L	1.0	98	70	130	0.7	20	
Magnesium	67.3	mg/L	1.0	100	70	130	0.3	20	
Potassium	53.2	mg/L	1.0	104	70	130	0.4	20	
Sodium	60.2	mg/L	1.0	105	70	130	1.0	20	
Method: E200.7							Analytical Run: ICP202-B_071227A		
Sample ID: QCS	Initial Calibration Verification Standard						12/27/07 10:09		
Calcium	50.1	mg/L	1.0	100	90	110			
Magnesium	49.0	mg/L	1.0	98	90	110			
Potassium	50.7	mg/L	1.0	101	90	110			
Sodium	50.5	mg/L	1.0	101	90	110			

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Altamont Oil & Gas Inc
 Project: Altamont Jody Fields

Revised Date: 12/28/07
 Report Date: 12/07/07
 Work Order: B07120154

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E300.0							Analytical Run: IC202-B_071221A			
Sample ID: ICV	Initial Calibration Verification Standard						12/21/07 10:02			
Chloride	25.2	mg/L	1.0	101	90	110				
Sulfate	101	mg/L	1.0	101	90	110				
Method: E300.0							Batch: R104331			
Sample ID: ICB	Method Blank						Run: IC202-B_071221A 12/21/07 10:14			
Chloride	0.04	mg/L		0.03						
Sulfate	ND	mg/L		0.06						
Sample ID: LFB	Laboratory Fortified Blank						Run: IC202-B_071221A 12/21/07 10:26			
Chloride	9.27	mg/L	1.0	92	90	110				
Sulfate	37.2	mg/L	1.0	93	90	110				
Sample ID: B07120154-001AMS	Sample Matrix Spike						Run: IC202-B_071221A 12/21/07 11:35			
Chloride	2580	mg/L	1.5	96	90	110				
Sulfate	4890	mg/L	3.1	97	90	110				
Sample ID: B07120154-001AMSD	Sample Matrix Spike Duplicate						Run: IC202-B_071221A 12/21/07 11:47			
Chloride	2560	mg/L	1.5	94	90	110	0.9	20		
Sulfate	4850	mg/L	3.1	97	90	110	0.8	20		

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Energy Laboratories Inc

Workorder Receipt Checklist



B07120154

Log in completed by: Eric L. Frank

Date and Time Received: 12/4/2007 9:15 AM

Reviewed by: Staci Fread

Received by: elf

Reviewed Date: 12/4/2007 8:02:40 PM

Carrier name: UPS NDA

- | | | | |
|---|---|--|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | 14°C |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

Contact and Corrective Action Comments:

Letter of instruction provided from client.

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC



**** REPORT ****

Altamont Oil & Gas Inc
Patrick Montalban
PO Box 488
Cutbank MT 59427

RECEIVED

JAN 14 2008

ALTAMONT OIL & GAS, INC

1/15/2008

Dallig 6037
Altamont Field 41



LABORATORY ANALYTICAL REPORT

Client: MCR LLC
 Project: Berthelote Water Disposal
 Lab ID: B08042696-002
 Client Sample ID: Disp System

Report Date: 05/06/08
 Collection Date: 04/24/08 06:45
 Date Received: 04/25/08
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	3220	mg/L		10		A2540 C	04/25/08 13:39 / afb
IN ORGANICS							
Alkalinity, Total as CaCO3	2010	mg/L		1		A2320 B	04/25/08 21:40 / kh
Sulfate	159	mg/L		1		E300.0	04/28/08 20:05 / qed
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.14	mg/L		0.05		E353.2	05/02/08 13:39 / bls

Water Sample from #4-1
Less gal Disp 3. gal another
the sample from #11-34 and 1 cell in Fields #11-34 (Fields Water Disposal)

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

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EXHIBIT B

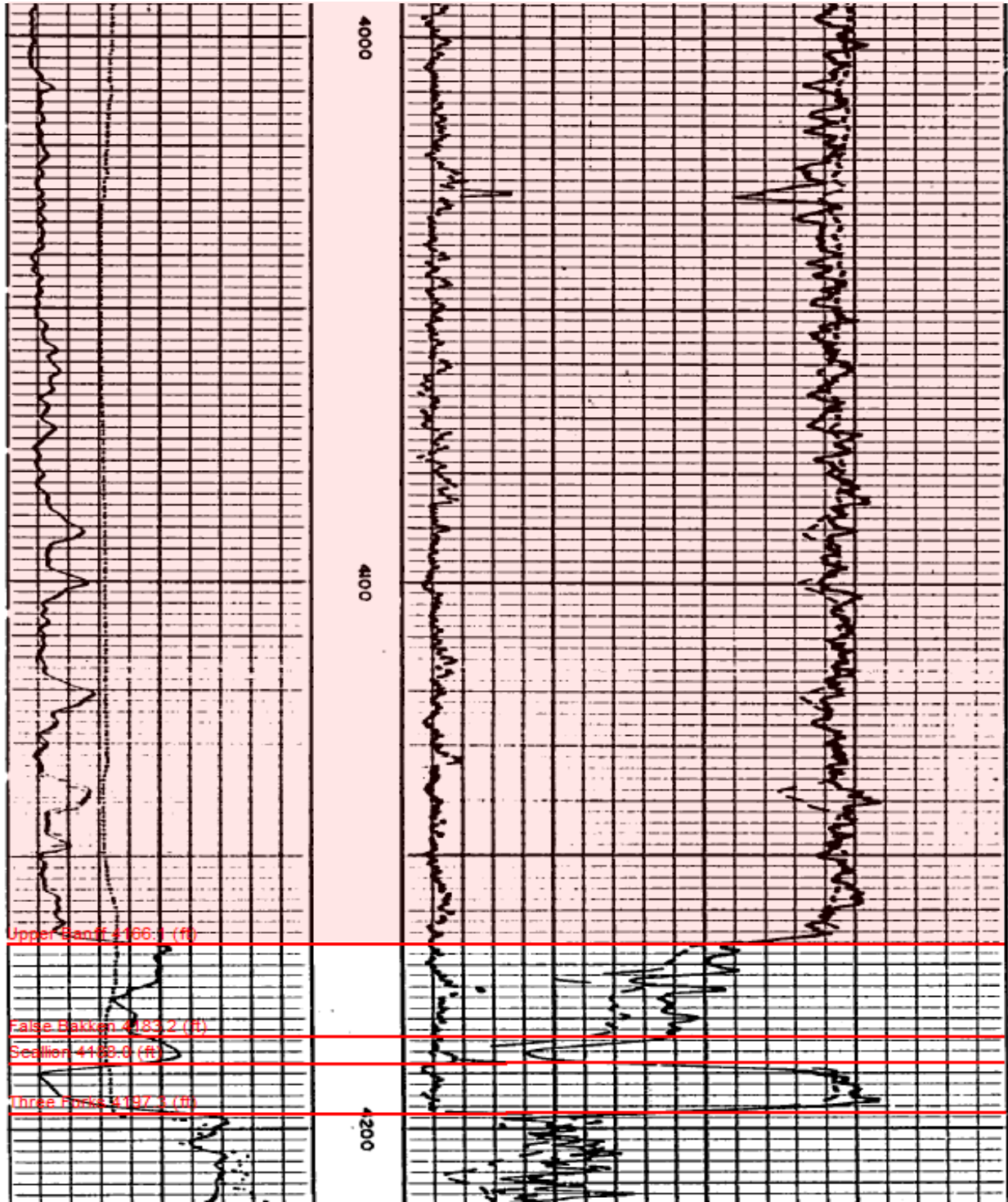
Powers Farm 29-1 Density/Neutron Log

BASAL LODGEPOLE

Porous

Impermeable

POROSITY INDEX (%) — LIME — MATRIX				
COMPENSATED FORMATION DENSITY POROSITY				
45	30	15	0	-15
GR. DENSITY 2.71 GM/CC FLUID DENSITY 1.00 GM/CC				
COMPENSATED NEUTRON POROSITY				
45	30	15	0	-15



POTLATCH

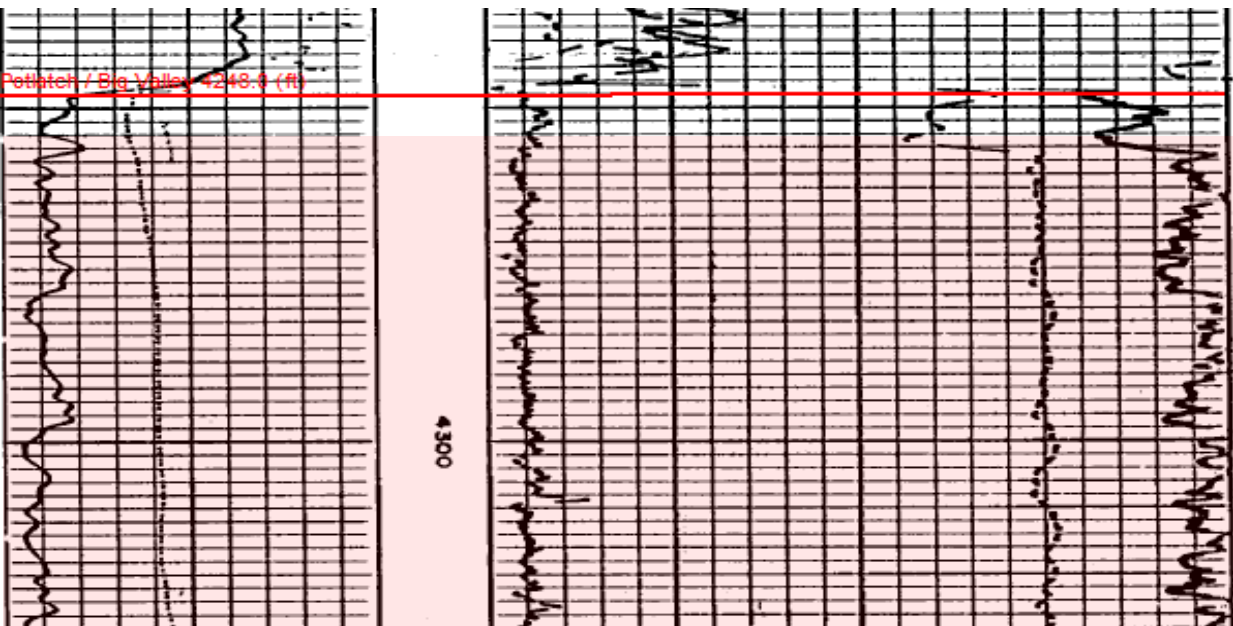
Porous

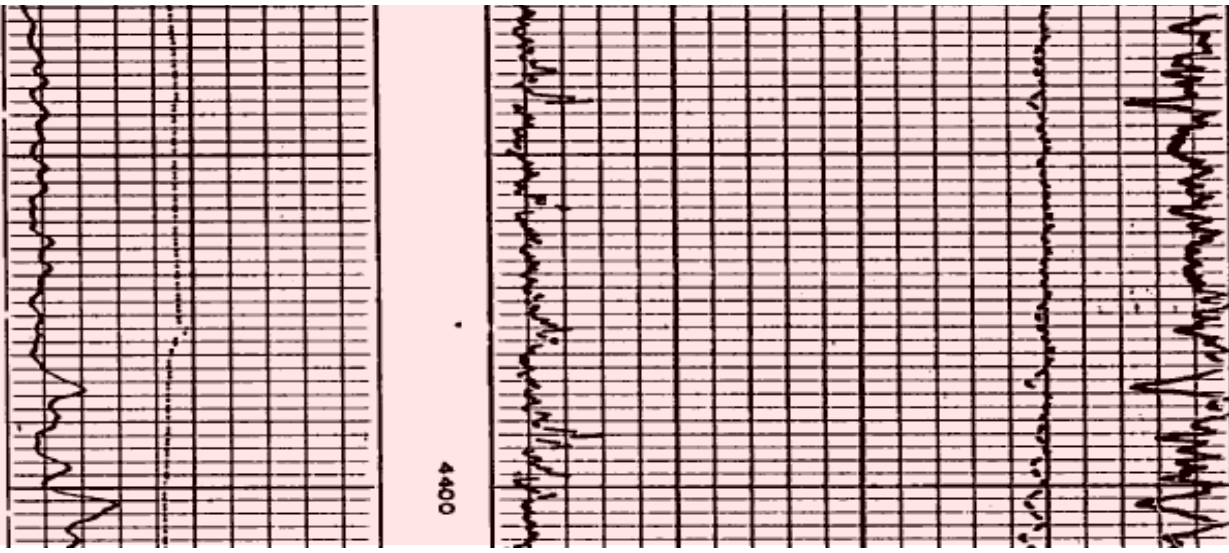
Impermeable

45

LS SCALE

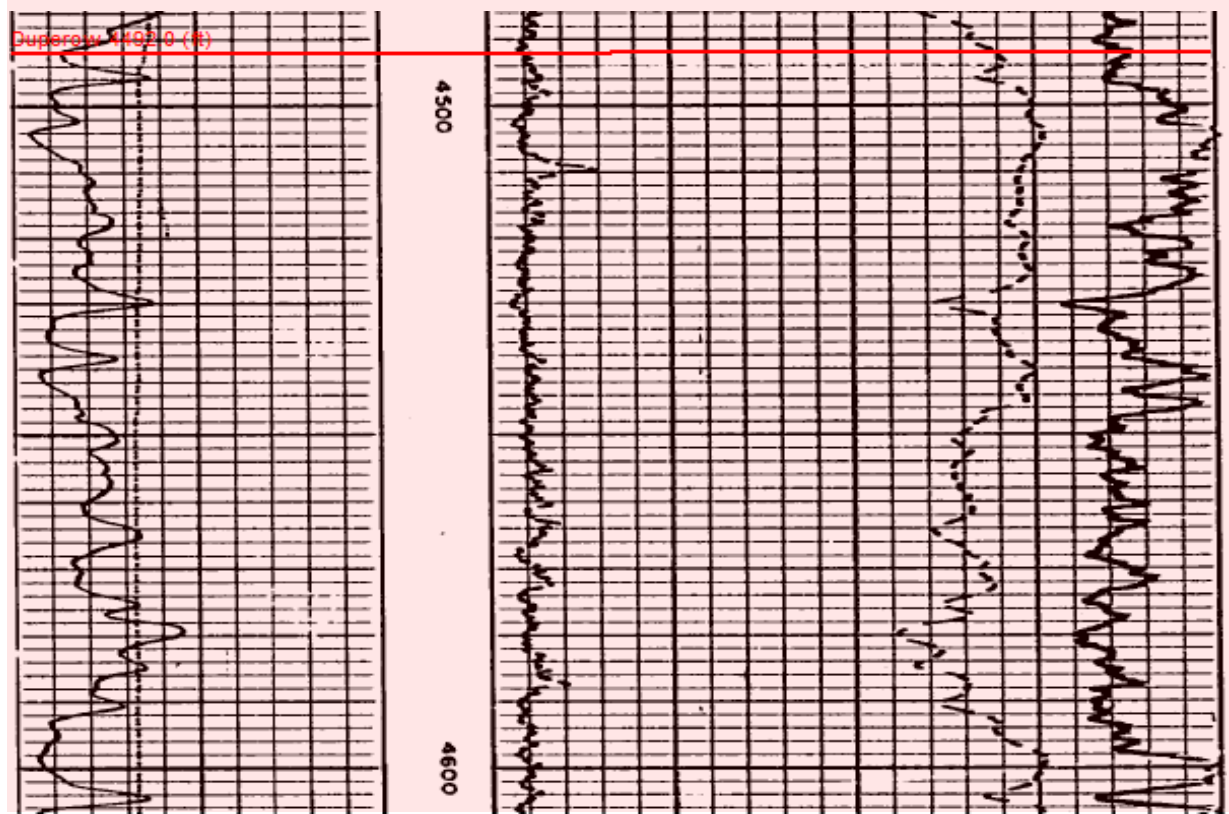
-15





DUPEROW

Porous
Impermiabile
45
LS SCALE
-15



Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment I Existing EPA Permits (40 CFR § 144.31)

DRAFT
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N/A
No EPA Permits to Report

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment J Description of Business (40 CFR § 144.31)

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CONTENTS

1. Montalban Oil & Gas Operations, Inc. Description of Business	2
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1. MONTALBAN OIL & GAS OPERATIONS, INC. DESCRIPTION OF BUSINESS

Montalban Oil & Gas Operations, Inc. (Montalban) is located in Pondera County, Montana, approximately 90 miles north of Great Falls, Montana. Montalban has successfully operated underground injection control (UIC) wells in Pondera County for over 11 years. Montalban has applied to EPA for an Area-Wide UIC Class V permit for injection of industrial wastewater into the Mississippian Madison Aquifer, an Underground Source of Drinking Water (USDW) for which an Aquifer Exemption has been requested. The area-wide UIC permit includes initial conversion of two (2) existing Class II UIC wells to Class V UIC wells and conversion at a future date of two (2) shut-in oil and gas wells to Class V UIC Wells.

Montalban is planning to receive industrial wastewater from Montana Renewables, a renewable fuels refinery located in Great Falls, Montana. Montana Renewables is a leader in the renewable energy transition, processing renewable feedstocks (such as seed oils, used cooking oil, and tallow) into low-emission sustainable alternatives that directly replace fossil fuel products. The refinery is scheduled to commence operations in 2022, with wastewater discharge commencing the First Quarter of 2023. Permitting injection of its wastewater into the proposed Class V UIC wells will support Montana Renewables in leading Montana's energy transition.

Prepared by
Ramboll US Consulting
Denver, Colorado

1690027805

Date
October 2022

MONTALBAN OIL & GAS OPERATIONS, INC. AREA-WIDE CLASS V UIC APPLICATION

Attachment K Optional Additional Project Information (40 CFR § 144.4)

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N/A
No Additional
Information to Report