OMB No. 2040-0042

Approvel Expires 11/30/2014

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For Classos I, II, III, (and other classes) complete and submit on a separate sheet(s) Attachments A--U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application.

XIII/Attachments

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I certify under the ponalty 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 CER 144.32)

imprisonment, (Ref.	40 CFR 144.32)	
A. Name and Title (	Type or Print)	B. Phone No. (Area Code and No.)
James McKinney,	Senior VP and General Manager - Appalachia East Assets	(304) 343-5505
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# PERMIT RENEWAL APPLICATION

CLASS II-D

PRODUCTION FLUID DISPOSAL WELL

### Permit Application

#### 1.0 Introduction

EnerVest Operating, LLC (EnerVest) with its Virginia operations office located in Abingdon and Clintwood, Virginia, is submitting this permit application for the renewal of EPA Underground Injection Control (UIC) Permit VAS2D957BDIC. This well is a Class II-D oil and gas production fluid disposal well in Nora, Virginia.

EnerVest has operated this injection well since January 14, 2016, taking over operations from Range Resources – Pine Mountain, Inc. which was the original permit holder. This permit renewal application will present the necessary information and supporting documentation to renew the permit and continue the disposal of gas and oil production fluids.

#### 2.0 Permit P-205: EPA UIC Permit VAS2D957BDIC

UIC Permit VAS2D957BDIC is known by the following:

- P-205 Well Number assigned by Philadelphia Oil Company when the well was permitted.
- o **Commonwealth of Virginia** Permit No. DI-0249 was issued for the drilling, completion, and operation of Well P-205.
- Commonwealth of Virginia Division of Gas and Oil has developed a digital mapping and records management system. In doing so, Well P-205 has been assigned map and file number PWD-750205.
- API# 45-051-00249-00: The Commonwealth of Virginia has instituted a new numbering system for American Petroleum Institute numbers on wells in Virginia.

For this permit application, Well P-205, *EPA UIC Permit VAS2D957BDIC*, is requested to be renewed as a Class II-D production fluid disposal well. However, should any of the above well names and/or references appear on any documents, letters, drawings, etc., the meaning is Well P-205.

#### 3.0 Well History

Permit No. 837 to drill for oil and gas was issued on November 1, 1985 to Philadelphia Oil Company by the Commonwealth of Virginia to drill Well P-205. Drilling of Well P-205 commenced on November 7, 1985 and was completed on November 21, 1985. A total depth of 6,153 feet was reached, with the Berea and Brown Shale formations being completed for the production of natural gas.

In June 2005, Equitable Production Company made the required notice and received approval from the DMME to modify Well P-205. The modification was to allow Equitable Production Company to re-enter Well P-205 to perforate, hydro-frac, stimulate, test, and produce the Weir formation. The Weir formation was perforated between the interval of 4,512 to 4,542 feet below ground surface and treated for the production of natural gas.

The Weir formation was determined to be an insufficient economic gas reserves to justify the production of the Weir formation. With this determination by Equitable Production Company, the well was evaluated as a candidate for conversion to an underground injection control well. Based on this evaluation, Well P-205 was chosen to be converted to an underground injection control well.

The original permit was submitted to EPA in May 2007. Injection began in May 2008. The permit's cover page was updated to reflect the company's name change to Range Resources – Pine Mountain, Inc. in April 2008. EnerVest Operating, LLC purchased Range Resources – Pine Mountain, Inc. in January 2016. The EPA UIC permit was transferred to EnerVest on January 14<sup>th</sup>, 2016.

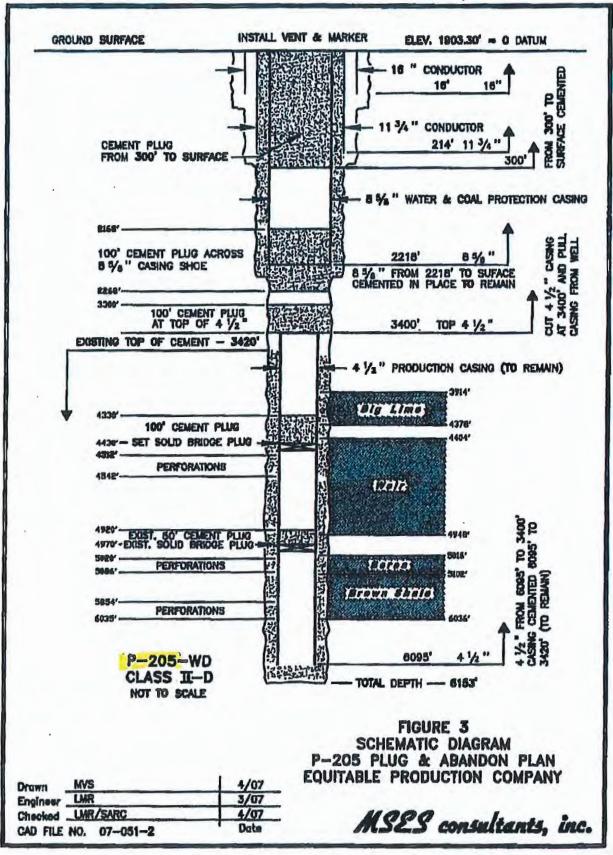
#### 4.0 Permit Application Layout

The renewal of injection well BU-1614 (23606) will include:

- Signed EPA Form 7520-6
- Attachments A, B, C,G, H, and Appendix C.

P-205 Injection Well Photo





## ATTACHMENT A

AREA OF REVIEW

#### 1.0 INTRODUCTION

The fixed radius of  $\frac{1}{4}$ -mile from existing Well P-205 was used for the area of review. All information presented and mapping provided are based upon the  $\frac{1}{4}$ -mile radius using Well P-205 as the center.

On some selective mapping, a radius of  $\frac{1}{2}$ -mile and one-mile, using Well P-205 as the center, will be the area of review as required by this permit application.

Table A-1

Parameter	Value
Reservoir Pressure in Injection Formation	$2,474 \frac{lbs}{in^2}$
Permeability	0.059 mD
Porosity	5-6%
Annual Average Monthly Injection Volume (bbls)	2016 — 15,604.6 bbls average 2015 — 15,445.0 bbls average 2014 — 15,036.5 bbls average 2013 — 14,640.0 bbls average 2012 — 14,552.0 bbls average

Calculation: 
$$BHP = 121 \frac{lbs}{in^2} + (8.8 \frac{lbs}{gal} * 5148 ft * \frac{12in}{ft} * \frac{gal}{231in^3})$$

$$BHP = 121 \frac{lbs}{in^2} + \frac{2,353lbs}{in^2}$$

$$BHP = 2,474 \frac{lbs}{in^2}$$

## ATTACHMENT B

REVIEW AREA AND WELL INFORMATION

#### 1.0 AREA OF REVIEW MAP

EnerVest (formerly Range Resources – Pine Mountain) used 1/4-mile as the Area of Review for UIC Permit Number VAS2D957BDIC (P-205). Drawing 1 is a topographic map that identifies the area within a 1/4-mile, one mile, and 1/2-mile radius of UIC P-205. This drawing provides the following information:

- □ Location of P-205 The permitted injection zone is the Weir formation from 4,512 to 4,542 feet deep. There are three coalbed methane wells within the 1/4-mile area of review. These wells are outlined in section 4.0 and are shown on the attached map.
- □ Existing Well Information All wells within one mile are identified by operator's well number, state file number and well type for all known producing, abandoned, dry holes, and injection. This information was gathered from well and map records on file with the Virginia Division of Gas and Oil and from EnerVest's company files.
- □ Surface and Subsurface Features The map identifies no surface bodies of water, springs, underground sources of drinking water ("USDW"), mines (surface and deep), quarries, roads, and other pertinent surface and subsurface features. Structures were examined using aerial photography.
- □ **Geologic Features** There are no identified faults within one-mile of UIC P-205.
- □ Intake and Discharge Structures (as originally submitted) A state and federal records review was conducted for the one (1) mile radius using the data resources firm of Environmental Data Resources, Inc. (EDR). A copy of EDR's report was submitted with the original application. The surficial reconnaissance and state and federal records review showed no water intake or discharge structures were present within the one (1) mile radius.
- □ Hazardous Waste Facilities (as originally submitted) A state and federal records review was conducted for the one (1) mile radius using the data resources firm of Environmental Data Resources, Inc. (EDR). A copy of EDR's report was submitted with the original application. The

surficial reconnaissance and state and federal records review showed no hazardous waste treatment, storage, or disposal facilities were present within one mile.

#### 2.0 UIC Permit Number VAS2D957BDIC (P-205)

UIC P-205 is located within the Ervinton District of Dickenson County, Virginia. The P-205 was drilled and completed in 1985 as a producing natural gas well. The well was drilled to a total depth of 6,153 feet and produced from the Berea and Brown Shale formation.

There are two UIC Class IID Injection Wells permitted and operating within the one-mile radius of P-205. These two wells are also permitted to inject into the Weir Formation and are owned and operated by EnerVest.

The P-205 was converted to a UIC in 2007, with the target injection zone (Weir formation) being more than 4,500 feet deep. The geologic formations and depths for this well are included as Attachment G.

#### 3.0 SURFACE OWNERS

The surface owners within the ¼-mile radius of UIC well P-205 are listed below. Addresses and tax map identification information are listed for each owner. A certified plat is also attached.

#### One-Quarter Mile Radius Surface Ownership

P-205

#### **Owner Name and Address**

Tax Map ID

 Heartwood Forestland Fund IV Limit 19045 Stone Mountain Road Abingdon, VA 24210 2HH-272-003

Owner Name and Address

#### 1/4-Mile Surface Owners

Tax Map ID

	CWINIT Hamo and radarese	1
2.	Heartwood Forestland Fund IV Limit	2HH-271-032
	19045 Stone Mountain Road	2HH-271-033
	Abingdon, VA 24210	2HH-271-034A
	3. Wilma & Charles Helton	Map 148 A, Parcel 1571
	199 Harris Road	219.45 Acres
	Gray, KY 40734	

#### 4.0 SURROUNDING NATURAL GAS WELLS

Within a one mile radius of UIC well P-205, a total of 52 natural gas wells exist with five additional coalbed methane wells are permitted to be drilled (or in the process of being permitted), based on Virginia Division of Gas and Oil and EnerVest's (formerly Range Resources – Pine Mountain) records as of March 2017. The existing wells consist of:

□ **Vertical Natural Gas Wells** – There are 5 vertical wells within one mile that penetrate the Weir formation (Figure B-1). Drilling and completion reports are attached as Appendix C.

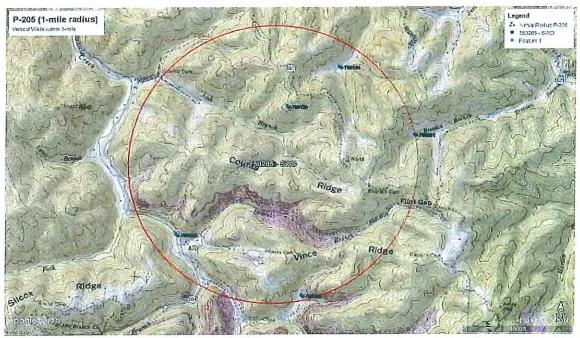


Figure B-1. Vertical wells within one mile of VAS2D957BDIC

Coalbed Methane Wells – There are 47 drilled and five permitted CBM wells within one mile. Of those, ten drilled CBM wells fall within ½-mile (Figure B-2). Information on these wells, such as total depth (TD) and formation at TD, is presented as Appendix C. The injection zone in the permitted UIC well is within the Weir formation. The CBM wells within the ½-mile radius are more than 2,200 feet deep, which provides for a minimum separation of approximately 2,000 feet to the injection zone. Many low permeability formations such as tight sands, shales and limestones form the layers separating the coals and the injection zone. These include the Mauch Chunk Group (Ravencliff sand and Maxton sands) and the Greenbrier Limestone (Big Lime). More detailed information on these formations is included in Attachment G.

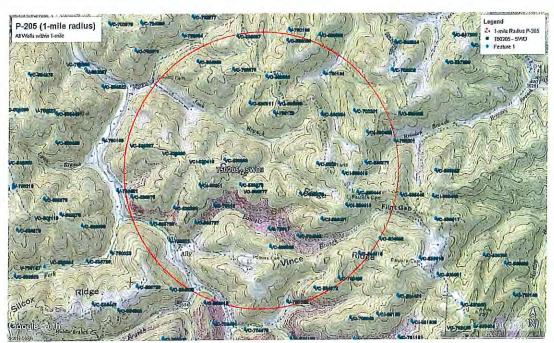


Figure B-2. Coalbed methane wells within one mile

- ☐ Horizontal Wells There are no existing horizontal wells within one mile of the proposed UIC well.
- Existing UIC Disposal Wells There two operating UIC Class II-D injection wells within one mile (Permit #'s VAS2D937BDIC and VAS2D947BDIC). These wells are depicted on Figure B-1. The injection formation for these wells is also the Weir and they are both owned and operated by EnerVest (formerly Range Resources Pine Mountain).

Appendix C is a listing of all the wells, their total depths and the geologic formation at total depth. Additionally, all wells penetrating the Weir formation have been noted and the drilling and completion reports have been attached. These reports were obtained from the Virginia Division of Gas and Oil.

#### 5.0 WATER SOURCES

REVIEW AREA AND WELL INFORMATION

A survey of the area within a one mile radius of UIC well P-205 was conducted to identify water wells, springs, and other drinking water sources. This survey was performed by Environmental Monitoring, Inc. and included a compilation of groundwater monitoring results conducted as part of Virginia Division of Gas and Oil permitting requirements for existing natural gas and coal bed methane wells. The results of the survey indicated there are no water wells within 1/4-mile of the proposed well. The survey identified 19 water wells and six springs between 1/4mile and one mile of P-205. All water wells and springs are shown on the attached Drawing-1. The results are outlined in Attachment E.

#### MINING ACTIVITIES 6.0

Data obtained from the Virginia Department of Mines, Minerals and Energy indicates there are no active deep or surface mining operations within one mile of the proposed injection well. There is an inactive surface mine within 1/4-mile, and one additional inactive surface mine within the one mile radius of the proposed well. There are three inactive deep mines within one mile of the proposed site. These deep mines targeted the Hagy and Clintwood seams located several thousand feet above the intended injection zone.

Associated with these inactive mines, are several surface and ground water monitoring points and National Pollutant Discharge Elimination System ("NPDES") points that have been identified.

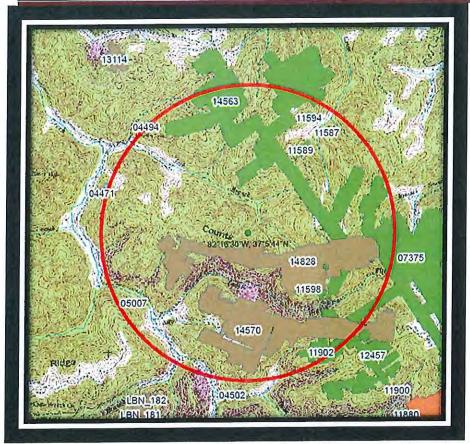


Figure B-3. Mining Activity 1-mile from P-205 (No Active Mining)

#### 7.0 REGIONAL STRUCTURE AND FAULTS

UIC P-205 is properly separated from all USDW's by thousands of feet of confining strata and there are no active faults in the region.

This region consists of an extensive, thick sedimentary sequence with numerous confining strata between all USDW's and the existing injection zone. The permitted injection zone contains the Big Lime and Weir formations, which have confining strata above and below of sufficient thickness and low enough permeability to confine the injection interval and isolate injected fluids to that zone. The Big Lime is thousands of feet below any known underground source of drinking water, thereby allowing adequate separation from potable water zones.

The P-205 well site falls within the Appalachian Plateau geologic province, dominated by relatively flat-lying strata typically dipping one to two degrees (Nolde, et.al.,1984). Rocks near the P-205 have an average dip of 0.6 degrees toward the northwest, while rocks south of the P-205 dip slightly to the southeast. This

indicates the P-205 is located along the northwestern limb of the Sourwood Anticline, which is a broad, gentle fold with the axis in Russell County to the east (Diffenbach, 1989).

There are no faults identified within the Area of Review. The entire Appalachian Plateau is considered geologically stable with no active faults. These inactive faults located throughout the southern Appalachians originated during the Acadian and Alleghanian Orogenies approximately 375 million to 260 million years ago. The closest mapped fault to the P-205 is the Russell Fork Fault located more than four (4) miles to the east. The Russell Fork is a right-lateral fault forming the eastern boundary of the Pine Mountain Thrust Block with as much as six miles of lateral displacement. The Pine Mountain decollement underlies the thrust block at an approximate depth of 6,000 feet. Some indications of minor thrust faulting have been noted within the Pennsylvanian coal beds in response to the Pine Mountain Overthrust (Diffenbach, 1989).

Maps depicting all recorded seismic activity (see Attachment G) show there is no activity in the vicinity of the P-205. More detailed geologic information is contained in Attachment G.

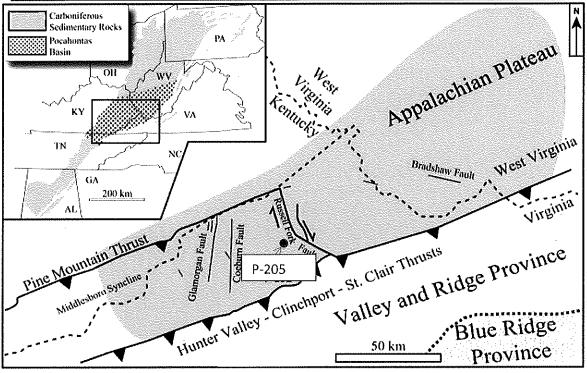
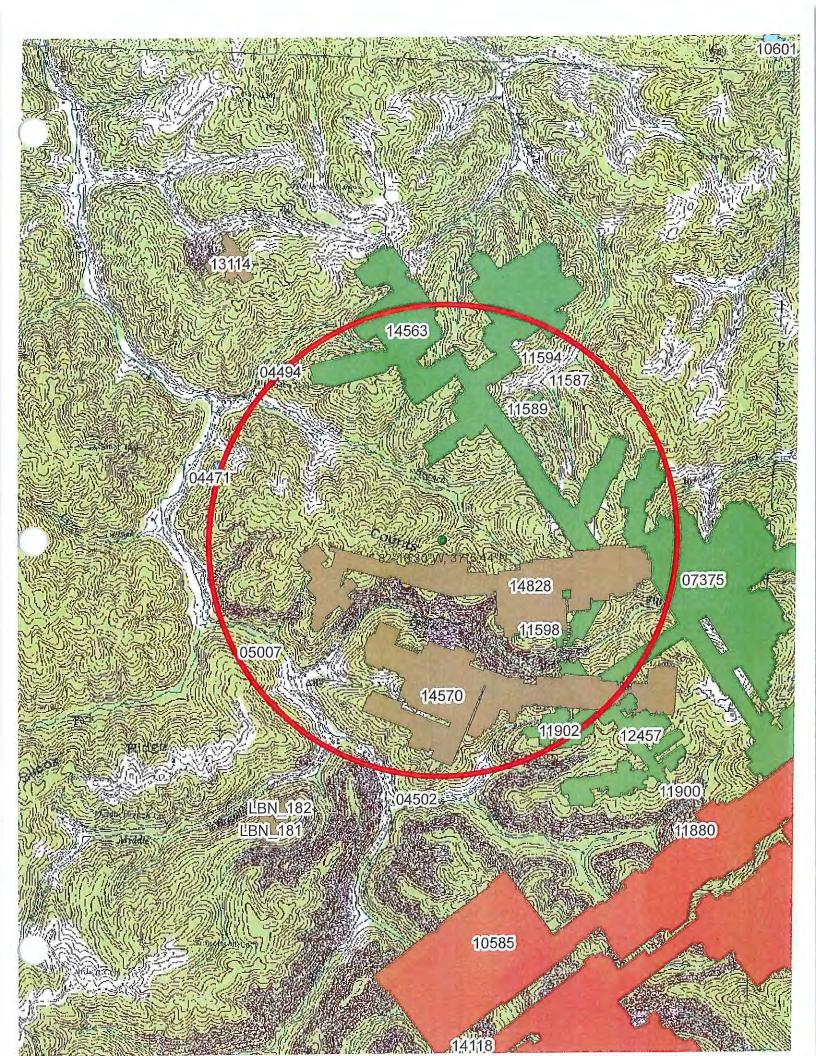


Figure B-4. Regional Faults adapted from Grimm, et.al., 2012

#### REFERENCES

Diffenbach, Robert N., 1989, Geology of the Nora Quadrangle, Virginia, Virginia Division of Mineral Resources Publication 92.

Grimm, Ryan P., et al, 2012, Seal evaluation and confinement screening criteria for beneficial carbon dioxide storage with enhanced coal bed methane recovery in the Pocahontas Basin, Virginia, *International Journal of Coal Geology*, V. 90-91, p. 110-125.



# Attachment C

Existing Wells Within Area of Review

#### 1,0 WELL DATA

Provided in Appendix C is a summary of well data for a one mile radius from existing Well P-205. These wells are located on Drawing-1. Appendix C also provides a reprint of the well plats and drilling and completion reports for vertical wells penetrating the Weir within the one mile radius of UIC well P-205.

#### 2.0 WELLS WITHIN AREA OF REVIEW (1/4-MILE)

The location of existing Well P-205 is shown on Drawing-1. As shown, there is a total of one conventional gas well (active, abandoned, or plugged) and two permitted UIC wells of record within the ½ mile radius of Well P-205. There are ten coal bed methane wells located within the ½ miles radius of Well P-205. The coal bed methane wells do not penetrate any of the formations completed in Well P-205. There are no known plugged or abandoned coal bed methane wells of record within the ½ mile radius of Well P-205.

#### 3.0 CORRECTIVE ACTION PLAN

The production fluid will be injected into Well P-205 at less than fracture pressure of the Weir formation. The maximum surface injection pressure will be 1,170 psig (90% of Weir formation instantaneous shut-in pressure) or less. Should this pressure or other operating and injection problems be encountered in Well P-205 the following will be undertaken:

- Immediately stop all injections and allow well to stabilize.
- If well cannot be stabilized and problems encountered cannot be corrected to the satisfaction of the state and federal agencies, Well P-205 will be plugged, as outline by Attachment Q.

EnerVest (formerly Range Resources – Pine Mountain) has conducted a detailed record and field search for existing, abandoned, plugged, and unplugged wells within the 1/2-mile radius around existing Well P-205. Should an abandoned and/or unplugged well be found in the future within the ¼-mile radius, EnerVest will plug the abandoned well, in accordance with a Plugging and Abandonment Plan approved by Virginia Division of Gas and Oil.

TOTALS	CBM	47	Within 1 Mile
	Conv-Gas	5	Within 1 Mile
	SWD	2	Within 1 Mile

Figure C-1. Existing Wells in Area of Review. P-205.

#### 1.0 OPERATION DATA

NO CHANGE.

#### 2.0 FLOW RATES

SEE ANNUAL REPORTS FOR 2016.

#### 3.0 INJECTION PRESSURES

SEE ANNUAL REPORTS FOR 2016.

#### 4.0 INJECTION FLUID

On June 5, 2015, the following fluid sample was obtained for analysis.

Typical Produced Fluids — A fluid sample from tanks at the off-loading site at P-171 owned and operated by EnerVest, that routes fluid to the P-205 injection well, was collected. The analytical results are included on the following pages. A review of the fluid sample will show the produced fluids to be similar in character and composition as previous submittals and will be compatible with the intended injection zone.



Site Description:

#### ENVIRONMENTAL MONITORING, INCORPORATED

ENVIRONMENTAL CONSULTANTS & ANALYTICAL LABORATORIES 5730 INDUSTRIAL PARK RD. ▲ NORTON, VIRGINIA 24273 ▲ 276/679-6544

#### Certificate of Analysis

Page: 1 of 1

Client Name: RANGE RESOURCES - PINE MTN. INC.

Address: P.O. BOX 2136

ABINGDON, VA

Sample Identification: P-171/205/132 INJECTION WELL

24212

Report Date: 06/05/15 Lab Sample No.: 1525895

Client No.: 372

EMI Project No.: 605

Date Collected: 05/26/15 Time Collected: 1110

Sample Matrix: AQ

Collected By: BAKER, BRANDON

Parameter	Sample Result	Units	MDL	RL	Method	Date Analyzed	Time Analyzed	Analyst
Alkalinity	56.0	mg/l CaCO3	4.00	4.00	SM 2320B-2011	5/27/2015	1138	MCF
Chloride	54483	mg/l	1000	1000	SM 4500-CI B-2011	6/2/2015	1230	AWM
Conductivity	141300	umhos/cm	1000	1000	SM 2510B-2011	5/28/2015	1258	CNS
Dissolved Oxygen (Not NELAP)	1.66	mg/l			SM 4500-O G-2011	5/26/2015	1110	FLD
Hardness, Total	20400	mg/l CnCO3	100	100	SM 2340 C-2011	5/28/2015	1710	CNS
pH (Not NELAP)	5.80	STD			SM 4500-H+B-2011	5/26/2015	0111	FLD
Specific Gravity (Not NELAP)	1.07				SM 2710 F-2011	6/1/2015	1440	THR
Sulfide	BDL	mg/l	1.00	1.00	SM 4500 S2-F-2011	6/1/2015	1330	THR
Total Dissolved Solids	97895	mg/l	1.00	1.00	SM 2540 C-2011	5/27/2015	1321	JRS
Barium, Total	1571	mg/l	0.050	3.00	200.7	5/31/2015	1539	AWM
Iron, Total	62.5	mg/l	1000.0	0.050	200.7	5/28/2015	118	٨WM
Magnesium, Total	1214	mg/l	0.690	50.0	EPA 200.7	5/28/2015	1531	AWM
Manganese, Total	2.91	mg/l	0,0016	0.050	200.7	5/28/2015	118	AWM
Sodium, Total	24400	mg/l	1.97	50.0	EPA 200.7	5/28/2015	1531	AWM

To the best of our knowledge and belief, the collection, preservation, and analysis of all parameters represented by this report have been determined to comply the requirements as specified in 40 CFR, Part 136. This report may not be reproduced except in full, without the written approval of the laboratory.



VA Laboratory ID#: 460038 WV Laboratory ID#: 105 KY Laboratory ID#: 98012

EPA Laboratory ID#: VA00010

The release of this report is authorized by:

R. J. Porter **Technical Director** 

Flow if Avaliable (GPAI):

Temp, if Available (C): 26.0 apth if Available (Ft):

BF3

anlysis Package Code:

PSCN Rev-03-06-15 Type of Sample: Grab

BDL = Below Detection Limit

FLD = Field Technician

MR = Mulliple analytical runs were used for this result IV = Flag indicates insufficient Sample Volume SV = Sample volume indicated by method not used AB = Analyte found in Method Blank

MSF = Malirx Spike Fallure - Malhod in Control EV = Ealmaled Value: Outside of calibration range

J = Flag Indicates estimated value below Report Limit

T = Results Indicate possible loxicity which is expected to influence reported value.

NA = A result for this analyle is not available.

MI = Matrix Interference - Final result may not be representativo.

BQ = Batch QC Outside Accoptable Range

HE = Parameter Hold Time Exceeded FC = Falluro to Comply Current SOP

R = Sample results rejected because of gross deficiencies in QC or method performance .

DC = Duplicate did not meet method criteria, method process in control

P = Sample was not properly preserved for this parameter.

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# Attachment G

Geological Information Well P-205

#### 1.0 INTRODUCTION

The permitted injection well P-205 is in the Appalachian Basin in an area with an extensive, thick sedimentary sequence with an adequate injection interval and numerous confining strata. The injection zone includes a limestone and siltstone, the Big Lime and Weir formations respectively, that are each relatively homogeneous with no highly permeable zones or major lithologic differences across their vast lateral extent. The lateral extent, which covers most of southwest Virginia, into Kentucky, West Virginia and beyond, is large enough to minimize injection pressure variations. The zones have confining strata above and below of sufficient thickness and low enough permeability to confine the injection interval and isolate injected fluids to that zone. The injection zone is thousands of feet below any known underground source of drinking water, thereby allowing adequate separation from potable water zones.

The overall geology in the area is structurally simple with flat-lying strata and no active fault systems. There are no identified faults within the Area of Review. Faults in the region were active hundreds of millions of years ago with no current tectonic forces on fault planes resulting in movement. Since the forces that caused faulting in the area occurred hundreds of millions of years ago, the fault zones are considered inactive and the triggering of seismic activity by fluid injection is unlikely.

The P-205 has been operating since 2007. Rock characteristics at this location allow for an effective injection zone with lithology above and below for adequate confinement.

#### 2.0 INJECTION ZONE

The target formation for the injection of produced fluid is within the Mississippian Price Formation, also known as the Weir. This formation is considered a hydrocarbon reservoir across the Basin. As such, the Weir has sufficient porosity and permeability to allow the storage and accumulation of fluids under adequate confining conditions. This formation is the target zone in many existing injection wells throughout southwest Virginia, including two EnerVest Operating, LLC

existing UIC Class II-D injection wells located approximately 0.4 miles to the north and east of the P-205.

The Weir formation consists of a very fine-grained siltstone. The lower portion of the Weir, locally referred to as the Weir Shale, is finer grained with slightly higher organic content. The target interval within the Weir is in the upper siltstone section with an average offset porosity of approximately six percent. Water saturation in the Weir is around 35% and is mainly associated with bound water found in its clay constituents. Only minor amounts of water were reported when the P-205 was producing natural gas. The perforated interval is from 4,512 to 4,542 feet deep. Below the Weir is the Weir shale, Sunbury shale and Berea formation.

A local geologic stratigraphic column is included in this section as Figure G-1. Figure G-6 is cross section extending from the P-205 to a vertical well located within the one mile radius showing no faulting between the wells.

#### 3.0 CONFINING ZONES

The sedimentary sequence in the southern Appalachian Basin contains several confining zones above and below the injection zone. Since the Weir is a hydrocarbon reservoir across the Basin, there are adequate confining strata above the injection zone that act as barriers to the upward movement of hydrocarbons and fluids. These confining rock layers are stratigraphic traps as a result of lithologic changes in reduced porosity and permeability.

Figure G-1 is a geologic column indicating the formations above and below the permitted injection zone. The following is a brief description of these formations.

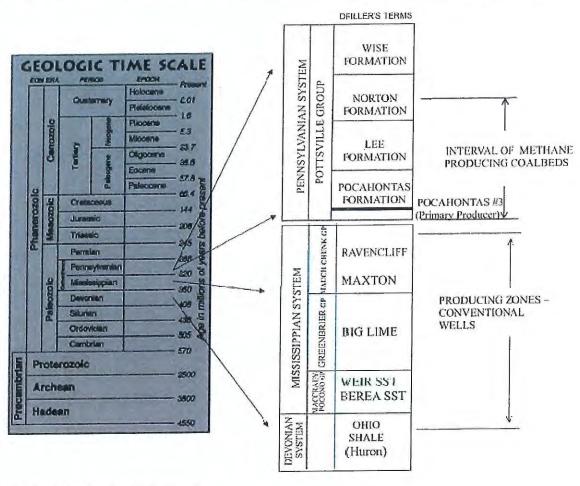


Figure G-1. Virginia Geologic Column

The confining zone directly above the injection zone is the upper Mississippian Greenbrier Group, locally referred to as the Big Lime. This is a dense, thick carbonate. The porosity zones in the Big Lime consist of thin oolitic channel deposits. Overall porosity in the upper Big Lime, based on offset data, is around two percent. Water saturation for the Big Lime is typically near zero. A structure map for the base of the Big Lime/top of the Weir is attached as Figure G-7.

Above the Big Lime is the Mauch Chunk Group consisting of over 1,000 feet of tight sands, siltstones and limestones that act as further barriers to the upward migration of fluids. Above the Mauch Chunk are several thousand feet of siltstone, tight sands and coal beds that also inhibit the migration of injected fluid.

There are also several confining zones below the Weir, such as the Weir shale and below that the Sunbury shale. The very low permeability of shale inhibits the downward migration of produced fluids.

Additionally the Pocono Formation, locally known as the Berea Sandstone, consists of a fine-grained, dirty siltstone. Offset data indicate the Berea has an average porosity of about four percent. In this area, the Berea is approximately 90 feet thick. As mentioned, directly above the Berea is the Sunbury (or Coffee) Shale. This shale is also about 70 feet thick and acts as a further barrier for downward migration of fluid. The top of the Sunbury is at 4,948 feet and the top of the Berea at 5,016 feet.

Figure G-2 is the stratigraphic column for well P-205 as drilled.:

	Depth in (FromSurf		Formation Thickness
Formation	Тор	Bottom	(Feet)
Fill, Sand, & Shale	0.00	2670	2670
Ravencliff	2670	2792	122
Little Stone	2792	2856	64
Shale	2856	2929	73
Maxon Sands	2929	3410	481
Shale	3410	3712	302
Little Lime	3712	3785	73
Lime & Shale	3785	3914	129
Big Lime	3914	4378	464
Keener	4378	4404	26
Weir	4404	4948	544
Coffee Shale	49 <b>4</b> 8	5016	68
Berea	5016	5102	86
Brown Shale	5102	6036	934
White Slate	6036	6153	117
	0.470		
Total Depth	6153		

Figure G-2. Stratigraphic Column for UIC well P-205

#### 4.0 STRUCTURAL GEOLOGY

As stated, the site falls with the Appalachian Plateau geologic province. This region is dominated by relatively flat-lying strata. Rocks near the P-205 have an average dip of 0.6 degrees toward the northwest, while rocks south of the P-205 dip slightly to the southeast. This indicates the P-205 is located along the northwestern limb of the Sourwood Anticline, which is a broad, gentle fold with the axis in Russell County to the east (Diffenbach, 1989).

There are no faults identified within the Area of Review. There are no active tectonic forces in the region since Virginia lies on a passive continental margin. Minimal thrust faulting has been mapped within a few coal beds in the region resulting from the Pine Mountain Thrust Fault (Diffenbach, 1989). Figure G-6 is a cross-section indicating no measureable offset through the permitted injection zone.

One of the main structural features in the region is the Pine Mountain Thrust Block (Figure G-3). Movement along this block occurred several hundred million years ago and was due to regional compression oriented northwest-southeast causing the block to move in a northwest direction. Crustal rupturing occurred along the eastern most extent of this block resulting in the Russell Fork Fault. This fault is a high angle, right-lateral strike-slip fault with the fault plane dipping 75° to 90° to the southwest. Overall vertical movement is slight, with numerous slickensides existing along the fault trace (Giles, 1921).

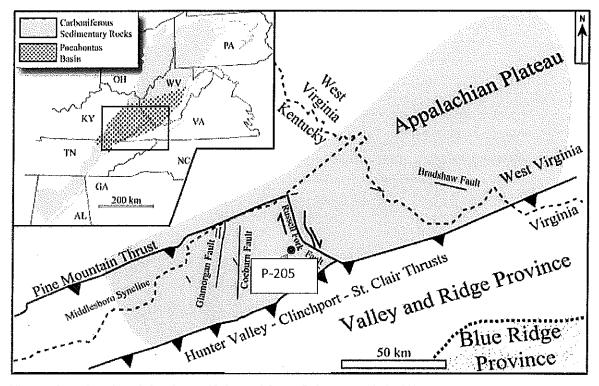


Figure G-3. Regional Geology. (Adapted from Grimm, et al, 2012)

#### **Local Seismic Activity**

Historically, seismic activity in Virginia has been minor. The faults that exist in the region were active during the Acadian and Alleghanian Orogenies approximately 375 million to 260 million years ago. The P-205 well is in a region that is not susceptible to earthquakes since there are no active forces causing crustal movement. Figure G-5 is a map from the Advanced National Seismic System (ANSS) of the area around P-205. On their system, earthquakes are shown by red dots. As seen on this map, there are no recorded earthquakes within the area of review:

Two main concentrations of earthquakes in the state are the Central Virginia seismic zone and the Giles County/New River seismic zone. The Eastern Tennessee seismic zone crosses into the southwestern tip of Virginia. Figure G-4 indicates that the P-205 does not coincide with one of these zones and falls within a relatively low density earthquake zone.

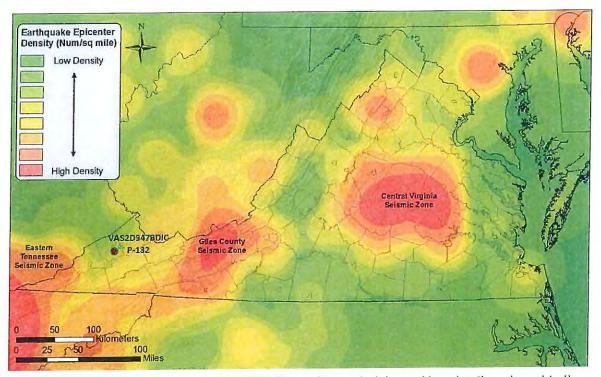


Figure G-4. Seismic Zones in Virginia (http://www.dmme.virginia.gov/dgmr/earthquakes.shtml)

The mechanism for Virginia's earthquakes has been attributed to residual stresses from the formation of the Appalachian Mountain range and the Piedmont province hundreds of millions of years ago. Most of the earthquake hypocenters are located miles below the target injection zone at depths between 3-15 miles and are not associated with faults mapped at the surface (VADMME, 2007). As stated, ANSS maps show no earthquake activity recorded in the vicinity of UIC well P-205.

Also of note is that several injection wells have been in operation in Virginia for more than a decade with no associated seismic activity.

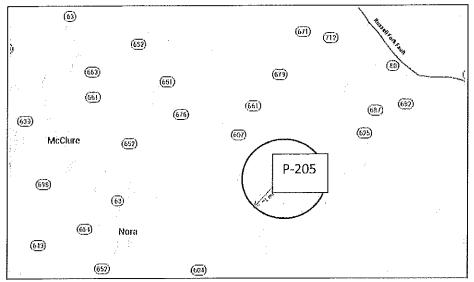


Figure G-5. Location of seismic activity from ANSS (Advanced National Seismic System) (http://www.dmme.virginia.gov/DGMR/earthquake2011.shtml)

#### 5.0 FRACTURE PRESSURES

The fracture pressures and instantaneous shut-in pressures for the Weir injection zones, as recorded by the Report of Completion of Well Work dated June 30, 2005, are listed below:

#### P-205 Weir Formation

	1,346 psig
Fracture (breakdown) pressure*	Treatment Pressure (max) – 2,564 psig
Instantaneous shut-in pressure*	1,873 psig
Rock pressure*	180 psig for a 60-hour test

<sup>\*</sup>surface pressures

The overlying Big Lime formation in Well P-205 was not completed. The underlying Berea formation was completed and the pressures are listed below:

#### P-205 Berea formation

<u> </u>	
Fracture (breakdown) pressure*	3,400 psig
Instantaneous shut-in pressure*	2,000 psig
Rock pressure*	680 psig for a 48-hour test

<sup>\*</sup>surface pressures

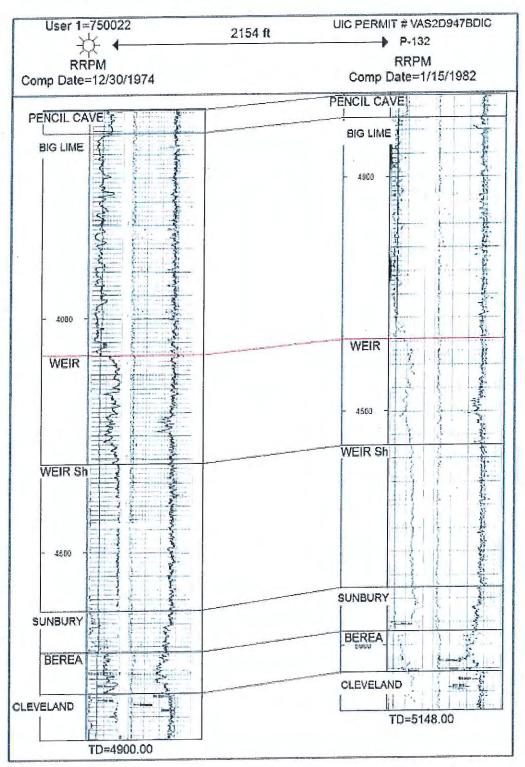


Figure G-6. Cross-Section across injection zone

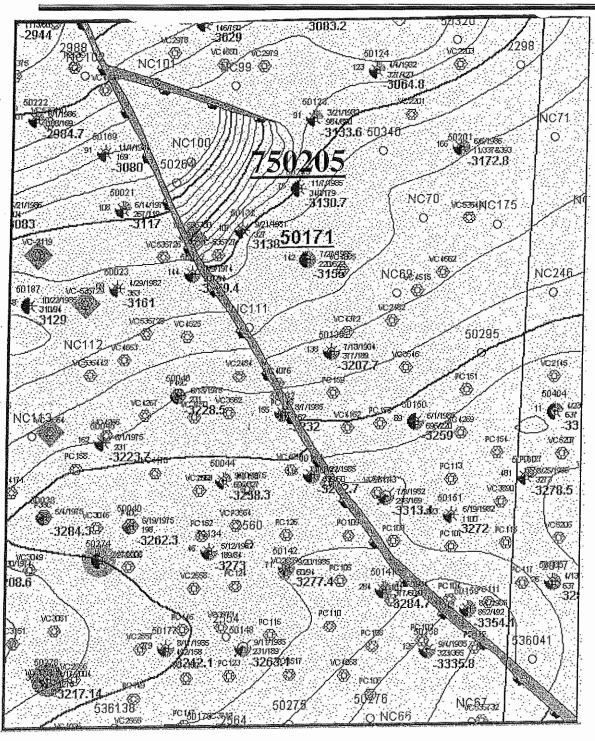


Figure G-7. Structure Map - Top of Berea

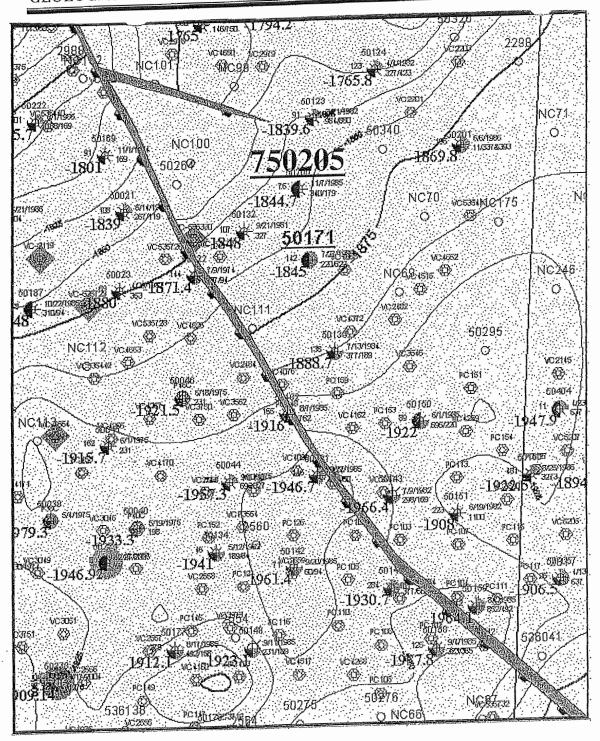


Figure G-7a. Structure Map - Base of Little Lime

#### REFERENCES

Byington, Craig B., 2007, The Tectonic History and Characteristics of Fracture Systems Affecting Coal Mine Roof Stability in Southwest Virginia, Virginia Division of Mineral Resources Open0File Report 07-01.

Diffenbach, Robert, 1989, Geology of the Nora Quadrangle, Virginia. Virginia Division of Mineral Resources, Publication 92.

Giles, Albert W., 1921, *The Geology and Coal Resources of Dickenson County, Virginia*, Virginia Geological Survey, Bulletin No. XXI.

Grimm, Ryan P., et al, 2012, Seal evaluation and confinement screening criteria for beneficial carbon dioxide storage with enhanced coal bed methane recovery in the Pocahontas Basin, Virginia, *International Journal of Coal Geology*, V. 90-91, p. 110-125.

Molinda, M. and D.K. Ingram, 1989, Effects of structural faults on ground control in selected coal mines in southwest Virginia, *International Journal of Mining and Geological Engineering*, V. 1990, 8, p. 332-347.

Virginia Department of Mines, Minerals and Energy, Division of Geology and Mineral Resources, 2007, Earthquake Factsheet (<a href="http://www.dmme.virginia.gov/dgmr/earthquakes.shtml">http://www.dmme.virginia.gov/dgmr/earthquakes.shtml</a>), and Major Earthquake 2011 (<a href="http://www.dmme.virginia.gov/DGMR/earthquake2011.shtml">http://www.dmme.virginia.gov/DGMR/earthquake2011.shtml</a>).

# Appendix C

Existing Well Records Within One-Mile Radius of Well P-205

# EXISTING WELL RECORDS WITHIN ONE-MILE RADIUS OF WELL P-205

#### 1.0 INTRODUCTION

This Appendix provides the following information:

- A Summary of the known wells contained in the Virginia Division of Gas and Oil (DGO) records is provided by Pages 2 and 3 of this Appendix.
   This well summary is provided by the tables identified as:
  - o Existing Well P-205
  - o UIC Class IID Wells within ½ mile radius of Well P-205.
  - Coal Bed Methane Wells of Record within ½ mile radius of Well P-205.
  - Vertical Wells of Record within ½ mile radius of Well P-205.
  - Coal Bed Methane Wells of Record from ½ mile to 1 mile radius of Well P-205.

Each table provides the well permit number Virginia file number, operator's well number, total drilled depth and the Formation at Total Depth (TD).

- A total of fifty-two (52) wells were found to be present within the one mile radius of P-205. These wells consist of:
  - o Two (2) UIC Class IID Wells.
  - Ten (10) Coal Bed Methane wells within ½ mile, with two (2) additional permitted, not drilled.
  - o One (1) Conventional wells within ½ mile.
  - Thirty-five (35) Coal Bed Methane wells and four (4) conventional wells from ½ mile to one (1) mile.

#### 2.0 WELL RECORDS

Copies of well records are provided following Page 3 of the Appendix.

# EXISTING WELL RECORDS WITHIN ONE-MILE RADIUS OF WELL P-205

			Existing Well P-20	5
Permit	Virginia	Well No.	Total Depth	Formation at TD
No.	File No.		(feet)	
837	DI-0249	P-205	6,153	Berea

· · · · · · · · · · · · · · · · · · ·		UIC CLASS	IID WELLS WIT	HIN ½ - MILE
Permit Virginia Well No. Total Depth Formation at TD				
No.	File No.		(feet)	· .
437	DI-0192	P-132	5,148	Berea
733	DI-230	P-171	6,271	Big Lime, Weir, Berea, Brown
				Shale

COAL BED METHANE WELLS OF RECORD						
	WITHIN 1/2-MILES OF WELL P-205					
Permit	Virginia	Well No.	Total Depth	Formation at TD		
No.	File No.		(feet)			
_	DI-2688	VC-530431	Not Drilled	Permitted, Not Drilled		
-	DI-2713	VC-536370	Not Drilled	Permitted, Not Drilled		
13068	DI-2669	VC-530415	2,430	Pocahontas		
13055	DI-2666	VC-530416	2,758	Pocahontas		
13069	DI-2670	VC-530417	2,642	Pocahontas		
12824	DI-2586	VC-536378	2,619	Pocahontas		
10278	DI-2153	VC-535911	2,599	Pocahontas		
12856	DI-2593	VC-536369	2,755	Pocahontas		
7534	DI-1577	VC-536363	2,653	Pocahontas		
12863	DI-2595	VC-536376	2,660	Pocahontas		
12879	DI-2602	VC-536377	2,745	Pocahontas		
12828	DI-2589	VC-502202	2,750	Pocahontas		

1.111.1111	(	WIT	NAL GAS WELLS HIN ½ MILE RAD			
			OF WELL P-205			
Permit Virginia Well No. Total Depth Formation at TD						
No. File No. (feet)						
464						

# EXISTING WELL RECORDS WITHIN ONE-MILE RADIUS OF WELL P-205

V 1941	(		NAL GAS WELLS TILE TO ONE-MIL OF WELL P-205	
Permit	Virginia	Well No.	Total Depth	Formation at TD
No.	File No.		(feet)	
866	DI-0266	P-201	5,260	Berea
462	DI-0194	P-124	5,144	Berea
161	DI-100	P-22	4,900	Berea
530	DI-219	P-139	5,392	Berea

			ETHANE WELLS		
FROM ½ - MILE TO ONE MILE RADIUS OF WELL P-205					
Permit	Virginia	Well No.	Total Depth	Formation at TD	
No.	File No.		(feet)		
4226	DI-958	VC-4065	1,913	Pocahontas	
5026	DI-1066	VC-504372	2,021	Pocahontas	
6206	DI-1253	VC-536330	2,242	Pocahontas	
5672	DI-1141	VC-535726	2,018	Pocahontas	
5682	DI-1143	VC-535727	2,220	Pocahontas	
12855	DI-2592	VC-536368	2,710	Pocahontas	
2600	DI-0725	VC-702979	2,608	Pocahontas	
7542	DI-1579	VC-536360	2,516	Pocahontas	
6779	DI-1376	VC-536375	2,246	Pocahontas	
12862	DI-2594	VC-536367	2,634	Pocahontas	
13054	DI-2665	VC-536337	2,560	Pocahontas	
12989	DI-2639	VC-502481	2,720	Pocahontas	
12990	DI-2640	VC-535886	2,608	Pocahontas	
13077	DI-2672	VC-530419	2,468	Pocahontas	
13081	DI-2673	VC-530420	2,507	Pocahontas	
4675	DI-1036	VC-504515	2,500	Pocahontas	
13076	DI-2671	VC-530421	2,732	Pocahontas	
7580	DI-1590	VC-535444	2,772	Pocahontas	
5350	DI-1101	VC-504662	-	Pocahontas	
13044	DI-2661	VC-530413	2,770	Pocahontas	
12823	DI-2585	VC-536371	2,676	Pocahontas	
13099	DI-2677	VC-530426	2,749	Pocahontas	
7535	DI-1578	VC-536364	2,557	Pocahontas	
1780	DI-0616	VC-702201	2,642	Pocahontas	
13126	DI-2689	VC-538590	2,841	Pocahontas	

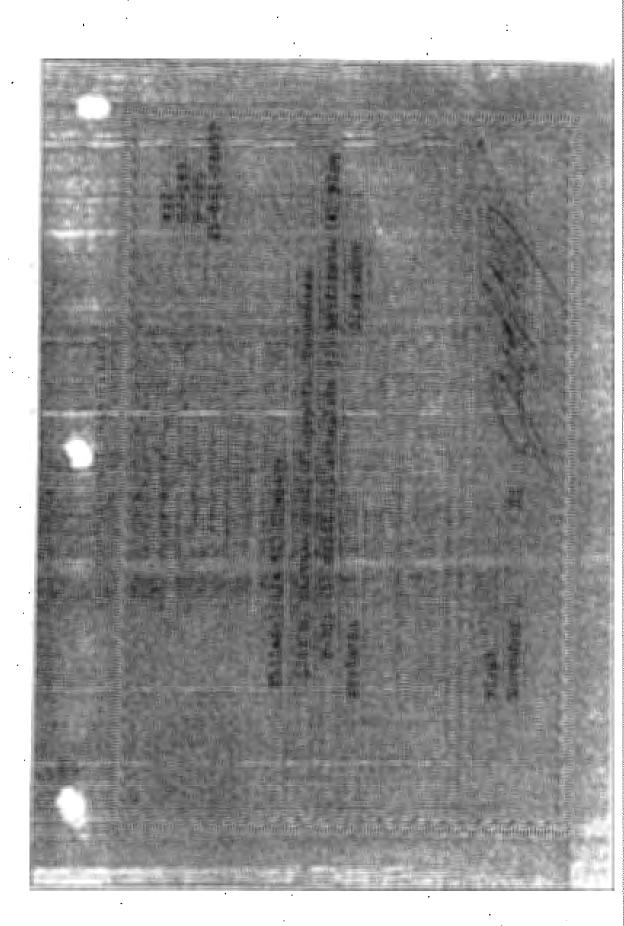
# EXISTING WELL RECORDS WITHIN ONE-MILE RADIUS OF WELL P-205

13111	DI-2686	VC-538955	2,790	Pocahontas
13177	DI-2710	VC-530444	Not Drilled	Pocahontas
13175	DI-2708	VC-536361	Not Drilled	Pocahontas
13101	DI-2679	VC-530430	2,828	Pocahontas
7534	DI-1577	VC-536363	2,653	Pocahontas
13167	DI-2702	VC-530449	Not Drilled	Pocahontas
7528	DI-1576	VC-536088	2,675	Pocahontas
13173	DI-2706	VC-530450	2,769	Pocahontas
5531	DI-1123	VC-504650		Pocahontas
13043	DI-2660	VC-530414	2,790	Pocahontas

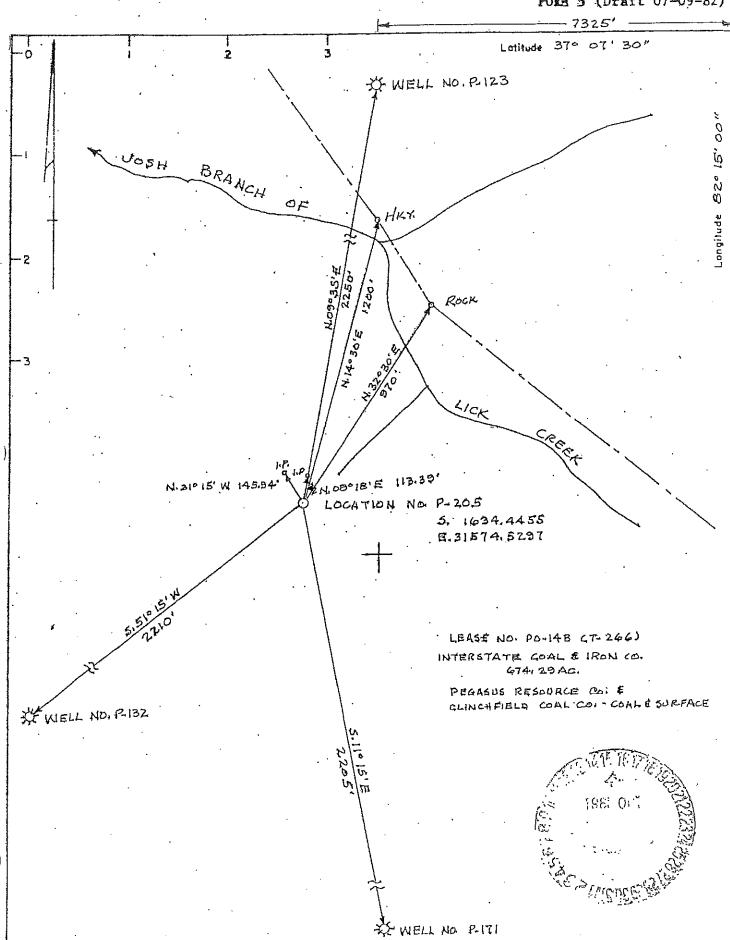
# Conventional Wells Within 1-Mile

EXISTING WELLS WITHIN AREA OF REVIEW

WELL VAS2D957BDIC



FORM 5 (Draft 07-09-82)



BLOCK NO. 643

Department of Mines, Minerals and Priero Division of Gas and Oil P.O. Box 1416 Vbingdon Mirgina 24210

Permit:

Well:

750205

FILE COPY

#### Completion Report

ell Type: Gas Well

ite Well Completed

Total Depth of Well:

6,149.00

LTD:

tach the drilling report if not previously submitted. In addition, submit any changes in easing and tubing that were proved after the drillinger report was submitted.

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Formation Stimulated With:

Ferforated:

to

No. of Perforations:

Perforation Size:

Formation Broke Down at:

PSIG

· Average Injection Rate:

ISIP: PSIG 5 Min SIP PSIG Average Downhole Injection Pressure: PSIG

Stimulated:

Yes: X No: Date Stimulated:

Zone 2

Formation Stimulated With:

Ferforated: ŧο No. of Perforations:

Perforation Size:

Formation Broke Down at:

Average Injection Rate: PSIG

BPM

ISIP: PSIG 5 Min SIP PSIG Average Downhole Injection Pressure: PSIG

Yes: X No: Date Stimulated: ulated:

aune 3

Formation Stimulated With:

Perforated: to No. of Perforations:

Perforation Size:

Formation Broke Down at:

PSIG

Average Injection Rate:

BPM

ISIP: PSIG 5 Min SIP PSIG Average Downhole Injection Pressure: PSIG

Stimulated:

Yes: X No: Date Stimulated:

Zone 4

Formation Stimulated With:

Perforated:

to

No. of Perforations:

Perforation Size:

Formation Broke Down at:

PSIG

**BPM** 

Average Injection Rate:

ISIP: PSIG 5 Min SIP PSIG

Average Downhole Injection Pressure: PSIG

Stimulated:

Yes: X No: Date Stimulated:

Inal Production

After Stimulation

BOD

MCFD

Hours Tested

Rock Pressure

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- 188

180

Permitee: EQUITABLE PRODUCTION COMPANY

(Company)

(Signature)

a DGO-GO-15

1.0V 7/00

750205

Well:

Permit:

~ Well:

750205

Formation Record

Dure Well Completed:

Total Depth of Well:

6,149.00

Permit:

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Permit:

Well;

750205

muings or samples are not available for examanation by a member of the Virginia Division of Mineral Resources ings or samples have not been furnished to the Virginia Division of Mineral Resources

Electric Logs and Surveys

List logs run on wollbore:

QR/Density/Temp/Induction/Neutron

Did Logs disclose vertical location of a coal seem? Yes:

No:X

Survey Results

Depth

Direction/Distance/Degrees From True Vertical

Casing Data

Casing Outside Diumeter

Casing Interval

Hole Size

Cement used in Cu. ft.

Cintd To Surface

Date Cemented

Cement Baskets

Tubing Size 23/8

Footage 5,951.85

It to report new You in well All other oldy information previously reported

(FOR OFFICE API Well No. -45

(USE ONLY: State County Permit

Date: September 5, 19 85

Operator's Well No. P-205

VIRGINIA OIL AND GAS INSPECTOR
DEPARTMENT OF LABOR AND INDUSTRY

DIVISION OF MINES

OIL AND GAS SECTION

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+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Issued and longitude lines are represented by border lines as shown.

This plat is new X / updated /

This plat is X / is not / based on a mine coordinate system established for the areas of the well location.

Well operator Philadelphia Oil Company.

1101 N. Eastman Road Kingsport, TN. 37664 Address Interstate Coal & Iron Co. Tract T-266 Acres 674.29 Lease No. PO-148 1885,661 Elevation Nora, VA. Quadrangle County Dickenson District Ervinton Registration No. \* Registered Engineer Certified Land Surveyor. Cert. No. Drawing No. File No. Date 9-5-1985 Scale 1"=4001

#### Certification of Well Plat

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Virginia Well Review Board.

Tegistered Engineer or Certified Land Surveyor Vin Charge

	OR OFFICE	API Well No.		
(0)	SE ONLY:	<del></del>	State County	Permit
)		Date: Septem	ber 5,	19 85
		Operator's Well No.	r-205	
				()
	<u></u> _	, 		VX
		AND GAS INSP		
DE		LABOR AND IN	DUSTRY (	77)
	DIVISI	ON OF HINES	COTTE TO	W.
	OIL AND	GAS SECTION		4.
	. 205 W.	MAIN SEREET		
	ABINGDON,	MAIN SECET VIRGINIA 242 VO3 628 8115	1000., 点	Š
	PHONE 7	03 628 8115 <sup>1</sup>		
	_			1
	W	ELL PLAP	1 1,100	Į.
		ell on United		•
		o 24,000.		
•	lnes are rep	resented by	border lines a	18
shown.				,
This plat is	new X / u	ndated /		
IIIIS PIAC I	, mew x.	, paacea		
This plat is	X / is no	t / based	on a mine .	
		tablished for		
	11 location			
) of the w		•		
Well operato	r Phil	adelphia Oil	Company	
HCII OPOZOG		N. Eastman F		· · · · · · ·
Address		sport, IN. 37		•
Farm		e Coal & Iron		
Tract T-266		674.29 Leas		<del></del>
Elevation	1885.	56.t	4.0	
Quadrangle	Nora, VA.			
County Dick		District K	rvinten	<del></del>
Registered E			lon No.	
	nd Surveyor		rt. No.	···
File No.	·	Drawing No.		
Date 9-5-1	985	.Scale 1™=4	.00 t	
		•	,	
	Certificati	on of Well Pl	lat	

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Virginia Well Review Board.

> egistered Engineer or Certified Land Surveyor in Charge

FORM 16

API WELL NO. 45 - 051 -State County Permit 20837 Date: April 1, 1986

Operator's Well

Name Interstate Coal & Iron P-205

VIRGINIA OIL AND GAS INSPECTOR 205 W. MAIN STREET ABINGDON, VA 24210 703-628-9115



#### REPORT OF COMPLETION OF WELL WORK

Oil and Gas Act, type(s) of well	Regulation 4.06 of the Regulations under the Virginia the undersigned well operator reports completion of the work specified below on the referenced well in <a href="Ervinton">Ervinton</a> son County, Virginia on <a href="26">26</a> day, <a href="26">3</a> month,
WELL TYPE:	Oil / Gas X / Enhanced recovery / Waste Disposal / If "Gas", Production X / Underground Storage / Exempt by Code Section 45.1-300.B.l. from general oil and gas conservation law: yes / no / Drill X / Deepen / Redrill / Stimulate / Plug off old formation / Perforate new formation / Plug / Replug / Other physical change in well (specify
the type(s) of w	rk was done as shown in the Appendix(es) applicable to
CONFIDENTIALITY :	STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332.
<u> </u>	ty days from the filing of this report
refe	years from, 19, the date on which the cenced well was COMPLETED, the well being an explora- well as defined in Code of Virginia Section 45.1-288.21.
•	
	APPLICANT: Philadelphia Oil Company BY Brint Camp
	TTS District Geologist  ADORESS 1101 N. Eastman Road, Kingsport, TN 37664  TELEPHONE 615-246-4332
	010 410 100

Form 16
Appendix A, Sheet 1 (Reverse)
Continued from Obverse side

#### OTHER GENERAL INFORMATION

An electric log survey was / was not / conducted pursuant to Code of Virginia Section 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was  $\frac{X}{}$  was not  $\frac{1}{}$  run for other purposes. This survey did  $\frac{1}{}$  did not  $\frac{X}{}$  disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia Section 45.1-333.B.3.

Deviation surveys were X / were not \_\_ / required under Code of Virginia Section 45.1-333.C "to the bottom of the lowest published coal seam depth."

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was \_\_\_\_/ was not  $\frac{X}{}$  / required under Code of Virginia Section 45.1-333.C.

Note: If a continuous directional survey was required, the survey results are attached.

#### CHANGES IN THE PERMITTED WELL WORK

The well operator did / did not X / make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

Note: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

API NO. 45- 051 - 20837

p 16 npendix A, Sheet 2 (Obverse)

#### CASING AND TUBING PROGRAM

#### PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes X / No / If Yes, was a coal protection string set to the red shales? Yes X / No /

	SIZE	:TOP	BOTTOM	<u>,ëi</u> Length	ERFORATIONS FROM TO	_
CONDUCTOR:	16 <b>"</b> 11 3/4"	0 0	16¹ 214¹	16 <b>1</b> 214 '	<b>.</b>	
CASING CIRCULATED AND CEMENTED IN TO SURFACE:	8 5/8"	0	2218	2218 <sup>,</sup>		,
COAL PROTECTION CASING SET UNDER SPECIAL RULE OF ODE OF VIRGINIA 45.1-334.B:						
OTHER CASING AND TUBING LEFT IN WELL;	4 1/2 <sup>1</sup> 2 3/8 <sup>1</sup>		6095 ' 5940 '	6095' 5940'	5020-5086 5854-6035	

LINERS LEFT IN WELL ONDER CODE OF VIRGINIA SECTION 45.1-336 OR OTHERWISE:

PACKERS OR BRIDGE PLUGS: KIND SIZE SET AT
2 3/8 X 4 1/2" 5480

REMARKS: SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING; ETC.)

#### SAMPLES AND CUTTINGS

r, X	MITI'	NO1,	BE AVAILABLE FOR EXAMINATION BY A MEMBER OF THE
			VIRGINIA DIVISION OF MINERAL RESOURCES
MITT X	MIIL	NOI'	BE FURNISHED THE VIRGINIA DIVISION OF MINERAL
****			RESOURCES UPON REQUEST
<b>YILL</b>	ԽՈՐՐ	X TOM	REQUIRE SACKS TO BE FURNISHED BY THE VIRGINIA
			DIVISION OF MINERAL RESOURCES.

M 16 APPENDIX A, SHEET 1, (OBVERSE)

API WI	ELL NO.	45 -	<u>- 051 ·</u>	~ 20837
•		State	County	Permit
Date:	April	1, 1986	· · ·	·
Operat	or's We	ell		
Name	Interst	ate Coa	] & Iroi	n į.

IF DRILLING, REDRILLING,	OR DEEPENING IS INVOLVED
DRILLING CONTRACTOR Union Drilling,	
	Buchannon, WV 26201
TELEPHONE 304-472-4610	
	vn Shale
DEPTH OF COMPLETED WELL 6153  DATE DRILLING COMMENCED 11/7/85	FEET
DATE DRILLING. COMPLETED 11/21/85	5
	E TOOL/
GEOLOGICAL DATA Depth Thick	necc
Top Bottom	11655
sh Water . 49'	
1038 '	
Salt water	
	MINITED TO AND
	MINING IN AREA Name %XX No MXXXXX
Coal Seams 289-294 657-660	788-790 1160-1162
442-445 661-665	1086-1088 1490-1495
535-542 680-683	1121-1123 1545-1550 1615-1620
Oil	Formation
· :	
•	
	•
Gas	Formation
	•
•	· ·
) The data on depth of strat	ta is based on the source(s) checked
rajo₩:	
	ing experience in the area by the coal operator in the area
	possession of the Inspector
	· Konnepaton or one ruplement

FORM 16 pendix A, Sheet 2 (Reverse)

#### DRILLER'S LOG

Compiled	by Brint Camp					
Geolo- gocal Age	General Formation Lithology	Color	Dept Top	h (feet) Bottom	Thickness	Remarks
'ennsylvanian	Sand & Shale		. 0	2670	2670	
lississippian	Ravencliff		2670	2792	122	
ıt	- Eittle Stone		2792	2856	64	
11	Shale	,	2856	2929	73 .	
11	Maxon Sands		2929	3410	481	
· n	Shale		3410	3712	302	
ıı .	Little Lime		3712	3785	73 .	
n .	Lime & Shale	,	3785	3914	129	
, н	Big Lime		3914 -	4378 .	464	
"	Keener		4378	4404	26	,  *I
. , tt	Weir		4404	4948	544,	
11	Coffee Shale	٠.	4948	5016 ·	68	
11	Berea		5016	5102	86	
'n	Brown Shale		5102	6036	934 ·	
11	White Slate		6036	6153	117 .	.•
	Logger's Total Depth	. •	6153			

# APPENDIX TO REPORT OF COMPLETION OF WELL WORK ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOVERY OF OIL OR INDICATIONS THEREOF
Indicated potential flow before stimulation BO Gravity and grade:
DISCOVERY OF GAS OR INDICATIONS THEREOF
Indicated potential flow before stimulation MCFR Rock pressure: psig hour test
RECORD OF STIMULATION
Full description of stimulation:  Zone 1: Brown Shale Formation  was stimulated with a 75 Q foam using 1.1 mmcf of N2, 306 BBL  fluid and 42.500# 20/40 and 7500# 10/20 sand.  Perforated 5854-6035 # Perfs. 35 Perf. Size .50  Breakdown 2950 psig. Avg. Injection 4000 psig.  Avg. I.R. 10 BPM Init. S.I.P. 2000 sig 15 Min. S.I.P. N/A psig
Zone 2: Berea Formation,  was stimulated with a 75 Q foam using 766,000 Scf N2, 336 BBL  fluid and 52,500# 20/40 and 7500# 10/20.  Perforated 5020-5086 # Perfs. 29 Perf. Size .50  Breakdown 3400 psig. Avg. Injection 3900 psig.  Avg.I.R. 21 BPM Init. S.I.P2000 psig 15 Min. S.I.P.N/A psig
Zone 3:Formation
Perforated # Perfs. Perf. Size
Hours Rock Hours BOD MCFD Tested Pressure Tested Zone 1: 179 6hrs. 930 48hrs.
Zone 2: 340 6hrs. 680 48hrs.
Zarie 3:
Final production it gas zones are comingled:MCFD
hours tested: psig. hours tested

## DIRECTIONAL SURVEY

## P-205

DEPTH		DEGREES
233		3/4
452	•	3/4
668	•	1/2
887		1/2
1106		1
1322		1/2
1540		1/2
1759		3/4
1946		1/2
2382		0

Me VISEN TIAT 017230 PORM 5 (Draft 07-09-82) -.6900' Letitude 37° 07° 30" PO-148 (T-266) INTERSTÀTE COAL & IRON CO. 614. 29 AC. CLINCHFIELD COAL CO. AUREL 40 N. 21:09'W 302'. BEECH N.65°40' E. 360' WELL PIZZ N.88 30'E 89.77' N32"08'E 58.64' COAL BENCH - 3 BRANCH P-171 5.3806,02 E. 31991.64' PO-148 (T-450) 1985 APR

PO-14B (T-450)

JESSE WAMPLER

347.90 AC.

CLINCHFIELD COAL CO.

THIS IS THE CORRECTED PLAT

OF P-171

B.S. Spradlin

4/18/85

MAP NO. 7 BLOCK NO. 643

FOR C	MLA: Derice	Val. Acil		State	County	Permit
-		Date:	Sept	. 26 <b>p</b>		.19 84
	•	Operator'		.171		

VIRGINIA OIL AND GAS INSPE DEPARTMENT OF LABOR AND CONTROL DIVISION OF H OIL AND GAS SECTION SEE APR 205 W. MAIN STREET

ABINGDON, VIRGINTA 24210 PHONE 703 628\8115

WELL PLAT

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Latitude and longitude lines are represented by border lines as shown..

This plat is new X / updated

This plat is X / is not / based on a mine coordinate system established for the areas If the well location.

Well operator Philadelphia Oil Company Address Box 431 Prestonsburg, KY. 41653 Jesse Wampler Farm Tract T-450 Acres 347.90. Lease No. PO-148 1933.57**'** Elevation Nora, VA. Quadrangle County Dickenson District Ervinton Registered Engineer Registration No. Certified Land Surveyor Cert. No. File No. Drawing No. . Date 9-26-1984 Scale 1"=400'

#### Certification of Well Plat

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Virginia Well Review Board,

Commercial Certified Land Surveyor

in Charge

(FOR OFFICE	API Wel	.l No.	7.7		*
(USE ONLY:			State	County	Permit
	Date:	June	19 7	, , , , , , , , , , , , , , , , , , ,	19_84
	Operato		D	474	

VIRGINIA OIL AND GAS INSPECTOR DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES

> OIL AND GAS SECTION 205 W. MAIN STREET ABINGDON, VIRGINIA 24210 PHONE 703 628-8115

#### WELL PLAT

+ Denotes location of well on United States Topographic Maps, scale I to 24,000. Latitude and longitude lines are represented by border lines as shown.

This plat is new X / updated \_\_ /

ordinate system established for the areas the well location.

Well operator PHILADELPHIA OIL COMPANY PRESTONSBURG, KY. 41653 Address BOX 431 Interstate Coal and Iron Co. Lease No. PO-148 Tract [T-266] Acres 674.29 Elevation 1939.45 Quadrangle, Nora District Ervinton County Dickenson Registèred Engineer Registration No. Certified Land Surveyor Cert. No. Drawing No. File No. Scale 1"=400" Date 6-19-1984

#### Certification of Well Plat

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Virginia Well Review Board.

Registered Engineer or Certified Land Surveyor in Charge

FORM 16

API WELL NO. 45 - 051 - 20733

State County Permit

Date: October 28, 1985

Operator's Well

Name Jesse Wampler, No. P-171

VIRGINIA OIL AND GAS INSPECTOR 205 W. MAIN STREET ABINGDON, VA 24210 703-628-8115

#### REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in <a href="Ervinton District">Ervinton District</a> , <a href="Dickenson County">Dickenson County</a> , <a href="Virginia">Virginia</a> on <a href="Ilthday">Ilthday</a> , <a href="October month">October month</a> , <a href="19">19 85</a> .	
WELL TYPE: Oil/ Gas X / Enhanced recovery / Waste Disposal/ If "Gas", Production X / Underground Storage/	,
Exempt by Code Section 45.1-300.B.l. from general oil and gas conservation law: yes/ no/  WELL WORK: Drill X / Deepen / Redrill / Stimulate/  Plug off old formation/ Perforate new formation/  Plug/ Replug/ Other physical change in well  (specify	.•
The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.  CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332.	
Ninety days from the filing of this report	
Two years from, 19, the date on which the referenced well was COMPLETED, the well being an exploratory well as defined in Code of Virginia Section 45.1-288.21	
APPLICANT: Philadelphia Oil Company BY Brint Camp	
TTS District Geologist  ADORESS 1101 N. Eastman Rd., Kingsport, TN 37664  TELEPHONE (615) 246-4332	ţ

# APPENDIX TO REPORT OF COMPLETION OF WELL WORK ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOREST OF OTP OF TO	ADTCALTOW:	5 THEREOF			
Indicated potential fl Gravity and grade:	low before	e stimula	ion'		BOD
DISCOVERY OF GAS OR I	NDICATION:	S THEREOF	·		
Indicated potential f Rock pressure: N/A					MCFD
RECORD OF STIMULATION					
Full description of s Zone 1: Brown Shale The Brown Shale was 348 Bbl. of fluid, 6 Perforated 5949-6046 Breakdown 2500 psig Avg. I.R. 11BPM Init.	treated v 50,000# sa # Pe . Avg. In	Format vith a 75 and and 1, erfs. 22 jection 3	Q foam fr 025,000 s Perf. S 450 psic	cf N <sup>2</sup> Size	.5
The Berea was stimul sand, 339 Bbl. fluid Perforated 5106-5165 Breakdown 3100 psig Avg.I.R. 8 BPM Init	lated with 1, and 704 # Per 1. Avg. Ir . S.I.Pl	scf N, erfs. 18 njection 2	Perf. 1 200 psic 5 Min. S	Size _	.5
The weir was treated sand, 518,000 scf N.  Perforated 4599-4630 Breakdown 2500 psic Avg.I.R. 8 BPM Init.	i with a 7, and 280 6 # Peg. Avg. In S.I.P.17	Bbl. flui erfs. 13 njection 2 700psig 15	frac with d. Perf. 100 psi Min. S.	Size_ g. I.P.N/A	.5 psig
.Final production ( )	natural				
Zone 1:	MCFD .	Hours 'Festea	Rock Pressure		
Zone 2:		-			
Zane 3:	1				<del></del> .
Final production 11	gas zones	are comi	ngled: _	622	_MĊFU
7 hours tester	d: 600	psig.	. 48	_hours	teste

Form 16

•					
ADT	No	4 E	- 051		20733
$\mathtt{API}$	NO.	40 -	י נכט	_	20122
	-				

### APPENDIX TO REPORT OF COMPLETION OF WELL WORK ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOVERY OF OIL OR INDICATIONS THEREOF
Indicated potential flow before stimulationBOD Gravity and grade:
DISCOVERY OF GAS OR INDICATIONS THEREOF
Indicated potential flow before stimulation 47 MCFD Rock pressure: N/A psig hour test
RECORD OF STIMULATION
Full description of stimulation:  Zone 1: Big Lime Formation  The lime was acidized with 3.500 gal. 15% HCL and 55,000 scf N  Perforated 4013 - 4018 # Perfs. 6 Perf. Size .4  Breakdown 2150 psig: Avg. Injection 1700 psig.  Avg. I.R. 10 BPM Init. S.I.Pl400 psig 15 Min. S.I.P. psig
Zone 2:Formation
Perforated # Perfs. Perf. Size Breakdown psig. Avg. Injection psig.
Breakdown psig. Avg. Injection psig.
Avg.I.R. EPM Init. S.I.P. psig 15 Min. S.I.P. psig
Zone 3:Formation
Perforated # Perfs. Perf. Size  Breakdown psig. Avg. Injection psig.  Avg.I.R. BPM Init. S.I.P. psig 15 Min. S.I.P. psig
Breakdown psig. Avg. Injection psig.
Avg.I.R. BPM Init. S.I.P. psig 15 Min. S.I.P. psig
Final production ( ) natural ( $\chi$ ) after stimulation
Hours Rock Hours
80D MCFD Tested Pressure Tested
Zone 1:
Zone 2:
Zane 3:
Final production if gas zones are comingled: MCFD
hours tested noin hours tested.

RM 16 APPENDIX A, SHEET 1, (OBVERSE) API WELL NO. 45 - 051 - 20733

State County Permit

Date: October 28, 1985

Operator's Well

Name Jesse Wampler, No. P-171

# REPORT OF COMPLETION OF WELL WORK IF DRILLING, REDRILLING, OR DEEPENING IS INVOLVED

DRILLING CONTRACTOR	Union Drilling
ADDRESS	1101 N. Eastman Rd., Kingsport, TN 37664
TELEPHONE	(615) 246-4332
GEOLOGICAL TARGET FORMATION	
DEPTH OF COMPLETED WELL DATE DRILLING COMMENCED	6271 FEET' 7-27-85
DATE DRILLING COMPLETED	8-6-85
DRILLING RIG: ROTARY X	/ CABLE TOOL/
GEOLOGICAL DATA Depth	Thickness
Top Bott	
resh Water .45'	and the second s
•	•
Salt water	
	MINING IN AREA Name Yes No Mined Out
Coal Seams	
98-100, 319-324	, 574-576, 680-683, 159 <b>3</b> -1600
•	•
Oil	Formation
•	
•	
•	<u>.</u>
Gas 4055, 5231	Formation
4033, 3231.	Big Lime, Berea
	•
The data on dép	th of strata is based on the source(s) checked
blow:	are defilling experience in the area
	own drilling experience in the area supplied by the coal operator in the area
	already in possession of the Inspector
Other (as fo	

Form 16
Appendix A, Sheet 1 (Reverse)
Continued from Obverse side

#### OTHER GENERAL INFORMATION

An electric log survey was / was not / conducted pursuant to Code of Virginia Section 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was x / was not \_ / run for other purposes. This survey did \_ / did not x / disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia Section 45.1-333.B.3.

Deviation surveys were x / were not / required under Code of Virginia Section 45.1-333.C "to the bottom of the lowest published coal seam depth."

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was \_\_\_/ was not X / required under Code of Virginia Section 45.1-333.C.

Note: If a continuous directional survey was required, the survey results are attached.

#### CHANGES IN THE PERMITTED WELL WORK

The well operator did / did not  $\frac{X}{X}$  / make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

Note: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

rm 16 bendix A, Sheet 2 (Obverse) API NO. 45- 051 \_ 20733

#### CASING AND TUBING PROGRAM

#### PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes x / No / If Yes, was a coal protection string set to the red shales? Yes x / No /

ZZ TOTY (ME II OUME PROTECTION	· · · · · · · · · · · · · · · · · · ·					
	SIZE	90T	BOTTOM	length	ERFORAT FROM	'IONS TO
CONDUCTOR:	11-3/4"	Surfac	e 25			
CASING CIRCULATED AND CEMENTED IN TO SURFACE:	8-5/8"	Surfac	e 2277			

COAL PROTECTION CASING SET UNDER SPECIAL RULE OF CODE OF VIRGINIA 45.1-334.B:

HER CASING AND TUBING LEFT IN WELL;	4-1/2"	Surface	6223	,	5949 5106 4599 4013	· · · 6046 5167 4636 4018
LINERS LEFT IN WELL UNDER CODE OF VIRGINIA SECTION 45 1-336 OR OTHERWISE.	·2 <sup>rt</sup>	Surface	6043		· ·	

PACKERS OR BRIDGE PLUGS:	KIND .	SIZE	SET AT
	Larkin	4-1/2" X 2"	4220

REMARKS: SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING;

#### SAMPLES AND CUTTINGS

WILL X	MITT' NOI,	BE AVAILABLE FOR EXAMINATION BY A MEMBER OF THE
		VIRGINIA DIVISION OF MINERAL RESOURCES
MILTY X	WILL NOT	BE FURNISHED THE VIRGINIA DIVISION OF MINERAL
)		RESOURCES UPON REQUEST
. WILL	MILL NOT X	REQUIRE SACKS TO BE FURNISHED BY THE VIRGINIA
		DIVISION OF MINERAL RESOURCES.

FORM 1.6 ppendix A, Sheet 2 (Reverse)

#### DRILLER'S LOG P-171

Compiled	by .	Brint Camp		<del></del>			
Geolo- gocal		General	•	Deoti	n (feet)		
Age	Formation	Lithology	Color	•	Bottom	Thickness	Remarks
						•	
•	Sand & Shale	e		-0	2682	2682	
. `	Ravencliff			2682	2846	164	
	Little Stand	e Gap		2846	2910	64	•
	Sandy Shale			2910	3214	304	
	Maxon Sands			3214	3660	•	
	Shale			3660	3777	117	
	Little Lime			377 <b>7</b>	3833	56	
	Limey Shale			3833	3980	147	
	Big Lime			3980	4458	478	
	Keener	•		4458	4550	92	•
	Weir	• .		4550	: 5018	468	
•	Coffee Shale	2		5018	5102	84	
	Berea			5102	5186	84	•
	Brown Shale		•	5186	6152.		,
	White Slate			6152	6271	119	
. }	Logger's T.I	) <b>.</b>		6271			

### DIRECTIONAL SURVEY

## P-171

DEPTH	<u>r</u>	EGREES
204 ' 361 ' 562 ' 739 ' 942 '		0° 3/4° 3/4° 0° 0° 1-1/4°
1174 ' 1420 '		1° 3/4°
1637 ' 1826 '		3/4° 3/4°
2315		3/4°

## THIS PERMIT IS NOT TRANSFERABLE

	Commonwealth of Virginia	Permit No.	733
	Department of Labor and Industry	File No	
	DIVISION OF MINES	Well No	
	Big Stone Gap, Virginia	API No	45 <u>-051-207</u> 3
	WELL WORK PERMIT		
	This is to certify that on this date a well work permit		:
was issued to	Philadelphia Dil Company	• •	
•	1101 N. Eastman Road, Kingsport, TN 37554		
	of P-171 (1) drill (2) stimulate (3) perforate	· · · · · · · · · · · · · · · · · · ·	
located in			
	THIS WELL WORK PERMIT IS ISSUED IN COMPLIANCE WI TITLE 45.1, CHAPTER 22, CODE OF VIRGINIA 1950 AS AN		
of a class one misc	ing a well within the State without first obtaining a well work permit as pr lemeanor or other penalties as prescribed in Title 45, Chapter 22, Articl n operates a well without first obtaining a well work permit shall constitute	e 7 of the C	ode of Virginia.
Issued this	Fourth day		
of December	19 84	- 1	· ·
Fee Paid \$100,00	Oil and Ga	s Inspector	
		•	•

	The state of the s	Indicada 37 97 30"
•	-0 1 2 3	Latitude 37 07 30"
	-1	
	0	3. 0
•		o l
		zec)
		PO-148'
	674.	29 Ac.
•	-3	
		1 ,
		VEII NO. P-132 Q 5. 3012.74 Q E. 29840.24
	117	H44-15W Q
	1 290	in a
	1/0-/1	1
	1/25	26 Je 8000
	1/00/11/8	1 300 F
	13711	* * * * * * * * * * * * * * * * * * *
•	40/11/	,600
		**
		nichfield Coal Company
	100	
	-3"	
:		
	l'a.	()   )
	4	
	C.	
	New Location.	
	Drill Deeper	
	Abandonment	Map No. 7 Block No. 643
	Company Philadelphia Oil Co.	
		COMMONWEALTH OF VIRGINIA
	•	DEPARTMENT OF LABOR & INDUSTRY DIVISION OF MINES
	Farm Interstate Coald Iron Co.	BIG STONE GAP
	Tract Acres 674.29 ease No PO-148	
		I sayer a monage a since i
	Well (Farm) No. Serial No. 7-132	WELL LOCATION MAP
	Elevation (Spirit Level) 1822.99	FILE NO. DI-192
	Elevation (Spirit Level) 1822.99  Quadrangle MOFE, VE.	FILE NO. <u>DI-192</u> PN=437
	Elevation (Spirit Level) 182299  Quadrangle Mora, va.  County Dickenson District Ervinton	FILE NO. DI-1921
	Elevation (Spirit Level) 1822.99  Quadrangle MOFE, VE.	FILE NO. DI-1921
	Elevation (Spirit Level) 182299  Quadrangle Mora, va.  County Dickenson District Ervinton	FILE NO. DI-1921

\_ Min. Shut-in Pressure

	(2)	feet to		٠,,		_ feet to _	fee
	(3)	feet to	feet.				fe
Main prod		feet to		· (4)		_ reer to _ _ feet to _	fe
					,		
Gas Well			Gaged		10/10ths.1	Water in	1_inc
Initial oper	n flow, gas:				/10ths, 1	Mercury in .	inc
			33 Mcf.; Rock F	Pressure		lbs,	h
			s foam fracture		50,000 pa	ounds_of	sand
- 4110 - 2-2	4-Dan ens						
		<del></del>	•	<del></del>			
Dungled	- Duanning	9	00 pair Arranga I			·····1	.200 · _
	n Pressure iection Rate		pai, Average i	injection Fr d: Tretant S	essure but in Process		1400 E
	-		· ,.	n, moonii d	11111-111 1 10050	<u>.</u>	<u> </u>
Min. Sn	ut-in Pressure			psi.	•		
Final Open	flow	Berea - 327	Mcf.: Rock Pressure	е	. 6	540 <sub>lbs</sub> .	72 h
Gas pays at	t (1) 498	31 feet to	Mcf.; Rock Pressure	owsat (1)	,	feet to	fe
	(2)	feet to	feet.	(2)		_ feet to	fee
	(3)	feet to	feet.	(3)			fe
Main neads	(4)	reet to	feet, feet.	(4)		. ieet to	fee
Main projut	tedon	rees to	ree.	(8)		_ reet (O	fee
Fresh water	r at (1)	feet.	GPM; (2)	feet.	GPM: (3)	feet.	GPN
Salt water a	at (1)	feet; (2)	feet; (3)	f6	et; (4)	fe	et.
Coal: from	see log	inches to	) feet	_inches: fro	m fee	eti	nches to .
feet	inches	s; from f	eet inches, t	to	_feet	inches.	
	Ca	sing and Tubing			Packers or	BRIDGE PLU	GS
Size	Used in Drilling	Left in Well	Perforated	Kind	Size		Set at
(inch)	(feet)	(feet)	(feet) to (feet)				···
1-3/4"	121			NONE			
8-5/8"	2,046	2,046.	1007.00	<b>-</b>			····
4-1/2"	5,109'	5,109'	4981-90				
			5003-18 5025-31	┪	<del> </del>		
			5048-54				
211	5,046'						
			`	∄.	Ĺn	NERS	
				<u> </u>		7	
				Size	Úsed in Drilling	LEFT IN WELL	PERFORATE
				(inch)	(ft.)	(ft.)	(ft. to ft.)
		,			NONE	<b>†</b>	
		<del>-</del>					
				<b> </b>	•		
				<del> </del>			<b>-</b>
	8-	5/8	2 046 sur	face	g.	-28-81	<u></u>
Casing	Cemented:	inch. from	2,046 feet to sur 5,109 feet to 4,1	Da Da	те		<del></del>
	- <del>4=</del>	inch, from	feet to	Da Da	tete_	₩- <u>~</u>	
omerīra. (C	Lut down donth	······································					
ешагия: (Б	nur down, depu	is, dates; fishing jo	bs, depths, dates; cavin	ig; other no	res)		
			,				
מאס מסומייים	usttinga väll ha av	milabla for aramin	ation by a member of	tha Windows	Conlegion!		(Yes)
ampies or c	trivings will be at	vanable for examin.	ation by a member of				KXXXX
ill be furni	shed the Virginia	ı Geological Survey	upon request	(res), i	f sacks for sa	me are fun	nished by the
rvey	·		(Yes)	Mannie			
•			(92/9)		÷		
lectrical log	gmade _X or r	ot made(che	eck which.)	m	1 · ·		_
opy furnish	ned herewith	or will be	submitted on or by	rrevious	<u>TÀ 2npwi</u>	rted	, 19
		y - T.D. Su: - T.D. 2,1					<del> </del>
	emberarme						
operator	requests that in	formation given he	erein and log or logs b	e kept conf	idential for a	a period of	ninety days
		covered by this rep	{Ye	S)		•	
			or ——— (M.	ን			

Furnished by E. R. Minns Date 4-19-82

Georogic Age	Formation	General Lithology	Color	TOP (feet)	BOTTOM (feet)	Thickness (feet)	REMARKS OIL, GAS WATER DEPTHS SHUT DOWN FISHING, ETC.
	Fill Sand & Sh. Sand Coal Shale Sand & Sh. Coal Sand & Sh. Coal Sand & Sh. Red Rock Sand & Sh. Total Dep	ale ale ale ale ale		058 483 4865 5503 6634 6688 10049 1081 10782 11516 21263 10449 1081 1081 1081 1081 1081 1081 1081 108	5 8 3 4 8 6 5 5 5 5 5 3 6 6 3 8 4 8 6 6 6 8 8 1 1 0 4 7 9 1 1 5 1 6 2 1 2 2 1 6 3 7 7 2 8 6 6 2 8 3 3 7 4 5 6 8 9 4 9 7 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 7 0 6 4 8 8 8 8 7 0 6 4 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 7 0 6 8 8 8 8 8 7 0 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	5 3 4 7 5 3 9 5 6 4 1 1 0 8 7 5 4 9 5 7 9 5 6 4 1 0 8 7 5 4 9 5 8 4 9 5 1 1 0 8 7 6 8 9 8 4 9 8 4 8 4 8 4 8 4 8 8 8 8 8 8 8	Gas 4927'- 33 MCF @ T

THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON:

Company of the second

# EQUITABLE PRODUCTION COMPANY Treatment Summary

Well Name:	P-75013	32 (P-132)	Date:	6/29/	2005			
Service Co.:		B.J. Services		. Stage/	Formation: _1		Weir	
Service Co.Tre	ater Rep.:	Bill	ly Burdette		EPC Rep	o:Be	enjamin K	(ose
# of Perfs:	16	Perf Depths:	4474.0'	- 4506.0'	Baffle #	#: CIBP	_@	4530'
Displacement:	To baffle:	72.0 b	bl		To Top Per	f: 71	.1 bbi	·
Type of T	reatment:	Var. Qual. FF	BD	Pressure:	2699 psi	Initial ISIP:	:N/A	
F.G.:	0.61	ATP:	2440 psi	MTP:	2475 psi	Final ISIP:	1715	psi
ISIP @	2 Min:	· 1498 psi	5 Min:	1479 psi				
Avg. Rate:	25.9 BF	PM Foam				•		

Designed	Material Volumes	Pumped	% of Design
30,000	# of proppant	31,642	105
135	bbls of water	110	81 ·
465,000	SCF N <sub>2</sub>	373,777	80
400	Gal of Acid - 15 %	400	100

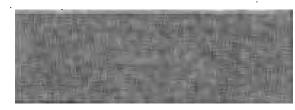
\*List all materials pumped\*

# JOB NOTES:

B.J. Services arrives @ 11:30 A.M.	
B.J. Services starts pumping @ 1:15 P.M.	
B.J. Services ends pumping @ 1:40 P.M.	
•	

On 7	Γhe Fly
16 gal	FAW-5
4.75 gal	Enzyme G-NE
4.25 gal	Claytreat 3C
2.5 gal	Inflo-102
2.5 gal	Flo-Back 30

Premix			
150#	GW-27		
0.5 gal	Mag 575		



## Completion Report

Gas Well Well Type:

Date Well Completed

Total Depth of Well:

5,142.00

LTD:

Attach the drilling report if not previously submitted. In addtion, suhmit any changes in casing and tubing that were approved after the drillinger report was submitted.

### Stimulation Record

#### Zone 1

Formation Stimulated With:

Perforated:

No. of Perforations: to

Perforation Size:

Formation Broke Down at:

**PSIG** 

Average Injection Rate:

BPM

ISIP: PSIG 5 Min SIP PSIG Average Downhole Injection Pressure: PSIG

Yes: X No: Date Stimulated: Stimulated:

### Zone 2

Formation Stimulated With:

Perforated: to No. of Perforations:

Perforation Size:

Formation Broke Down at:

**PSIG** Average Injection Rate: **BPM** 

ISIP: PSIG 5 Min SIP PSIG. Average Downhole Injection Pressure: PSIG

Stimulated: Yes: X No: Date Stimulated:

### Zone 3

ormation Stimulated With:

erforated: to No. of Perforations:

Perforation Size:

Formation Broke Down at:

Average Injection Rate: PSIG .

BPM

Average Downhole Injection Pressure: PSIG ISIP: PSIG 5 Min SIP PSIG

Yes: X No: Date Stimulated: Stimulated:

## Zone 4

Formation Stimulated With:

Perforated:

to

No. of Perforations:

Perforation Size:

Formation Broke Down at:

**PSIG** Average Injection Rate: **BPM** 

ISIP: PSIG 5 Min SIP PSIG

Average Downhole Injection Pressure: PSIG

Stimulated: Yes: X No: Date Stimulated:

#### Final Production After Stimulation

BOD

<u>MCFD</u>

Hours Tested

Rock Pressure

Final Production if Gas Zones are commingled

230

EQUITABLE PRODUCTION COMPANY

(Company)

(Signature)

Form DGO-GO-15

Rev 7/00

Well:

750132

Formation Record

Permit: 43700

Well:

750132

Total Depth of Well:

Date Well Completed:

5,142.00

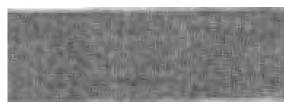
Permit:

43700

: Stage1

	Stage1
Date	06/30/2005
FracType	. Varible
Zone	Weir
# of Perfs	16
<b>F</b> холь/Го	4,474— 4,506
BD Press	2,699
ATP Psi	2,440
Avg Rate	26
Max Press Psi	2,475
ISIP Psi	1,715
10min STP	1,479 5 min.
Frac Gradient	0.61
Sand Proppa	nt 316.42
Water-bbl	110
SCF N2	373,777
gal	400 gal 15%HCL

Permit: 43700 Well: 750132



as Prikarikoja az

Attach a final location Plat as required by 4 VAC 25-150-360.C

t sa Dail molPata.

Date Drilling Commenced:

**Drilling Contractor:** 

Date Drilling Completed:

Date Well Completed:

Rig Type:

DTD: 5,142.00

Rotary: X

Cable Tool:

LTD:

<u>Type</u>

From / GPM per Inch

Charles in a Constant Constant

Type

· From

e casadensions c

Gas Tests

<u>Depth</u>

Remarks

43700 750132 Well: Permit:

Cuttings or samples are not available for examanation by a member of the Virginia Division of Mineral Resources Cuttings or samples have not been furnished to the Virginia Division of Mineral Resources



List logs run on wellbore:

GR/Density/Temp/Induction/Neutron

Did Logs disclose vertical location of a coal seem? Yes:

No:⊠

Depth

Direction/Distance/Degrees From True Vertical

Casing Outside Diameter

Casing Interval

Hole Size

Cement used in Cu. ft.

Craid To Surface

Date

Cemented

Cement Baskets

Tubing Size

**Footage** 

23/8

5,031.95

		<u>Drill</u>	lers Log	Permit: 43700	Well: 750132	
Formation Name	Depth Top	Depth Bottom	Formation Thickness		•	
Fill .	0.00	5.00	5.00			
1 & Shale	5.00	8.00	3.00			
, }	8.00	483.00	475.00			
Coat	483.00	486.00	3.00			
Shale .	486.00	505.00	19.00			
Sand	505.00	555,00	50.00			
Shale	555,00	603.00	48.00	Total Depth of Well:	5,142.00	
Sand & Shale	603.00	630.00	27.00			
Coal	630,00	634.00	4.00			
Sand .	634.00	683.00	49.00			
Sand & Shale	683.00	688.00	5.00		•	
Sand	688.00	1,005.00	317.00			
Sand & Shale	1,005.00	1,044.00	39.00	•		
Sand	1,044.00	1,079.00	35.00		•	
Coal	1,079.00	1,082.00	3,00			
Sand & Shale	1,082.00	1,511.00	429.00			
Coal	1,511.00	1,516.00	5,00		· ·	
Sand & Shale	1,516.00	2,122.00	606.00			
Red Rock	2,122.00	2,126.00	4.00			
Sand & Shale	2,126.00	2,637.00	511.00			
Ravencliff	2,637.00	2,747.00	110.00			
Sand	2,747.00	2,825.00	78.00	•	•	
Maxton	2,825.00	3,662.00	837.00			
Sand	3,662.00	3,728.00	66.00	•		
Shale	3,728.00	3,796.00	68.00			
Big Lûne	3,796.00	4,345.00	549.00			
Weir	4,345.00	4,534.00	189.00	•		
Weir Shale	4,534.00	4,889.00	355.00			
		4 866 08	04.00			

. 81.00

94.00

84.00

0.00

Permitee: EQUITABLE PRODUCTION COMPANY (Company)

By: (Signature)

4,889.00 4,970.00

5,064.00

5,148.00

4,970.00

5,064.00

5,148.00

0.00

fee Shale

) Saud & Shale

Total Depth



Mr. Robert Wilson Commonwealth of Virginia Division of Gas and Oil P. O. Box 1416 Abington, Virginia 24214 August 25, 2005

Dear Mr. Wilson:

While preparing the paperwork associated with a recent recompletion of the Weir interval in EPC well P-132 (45-051-20437), I noticed the Keener was incorrectly listed on the original 1982 drillers log submitted to the State. The correct Formation name for the interval originally reported as Keener should have been Weir. I have corrected the Formations and reported tops and associated Formation thickness on the attached Drillers log portion of the Completion Report form.

Should you have any questions concerning the attached material, I can be contacted at (412) 395-2568.

Sincerely,

Fil Sciullo

Operations Project Engineer

CC; Vicky Dugan - Charleston

RECEIVED AUG 2 8 2005

		<u>Drill</u>	lers Log	Permit: 43700	үү ед:
Formation Name	Depth Top	Depth Bottom	Formation Thickness		
Fill	0.00	5.00	5.00		
`and & Shale	5.00	8.00	3.00	•	
þd	8.00	483.00	475.00		
لعُمْ	483.00	486.00	3.00		•
Shale	486.00	505.00	19.00		
Sand	505.00	555.00	50.00		
Shale	555,00	603.00	48.00	Total Depth of Well:	5,142.00
Sand & Shale	603.00	630.00	27.00		
Coal	630.00	634.00	4.00		
Sand	634.00	683.00	49.00		
Sand & Shale	683.00	688.00	5.00		
Sand	688.00	1,005.00	317.00	•	
Sand & Shale	1,005.00	1,044.00	39.00	•	, ·
Sand	1,044.00	1,079.00	35.00		
Coal	1,079.00	1,082.00	3.00		
Sand & Shale	1,082.00	1,511.00	429.00		
Coal .	1,511.00	1,516.00	5.00		
Sand & Shale	1,516.00	2,122.00	606.00	·	
Red Rock	2,122.00	2,126.00	4.00		
Sand & Shale	2,126.00	2,637.00	511.00		
Ravencliff	2,637.00	2,747.00	110.00		
Sand	2,747.00	2,825.00	78.00		4
Maxton	2,825.00	- 3,662.00	837.00		
Sand	3,662.00	3,728.00	66.00		
Shale	3,728.00	3,796.00	68.00		
Big Lime	3,796.00	4,345.00	549.00		
Weir	4,345.00	4,534.00	189,00		
Weir Shale	4,534.00	4,889.00	355.00	•	
`offee Shale	4,889.00	4,970.00	81.00		
rea	4,970.00	5,064.00	94.00		
Sand & Shale	5,064.00	5,148.00	84.00		•
Total Deoth	5,148.00	0.00	0.00		

(Company)

8/25/05 (Signature)

Permitee: EQUITABLE PRODUCTION COMPANY

750132



Well: 750132 43700 Permit:

Completion Report

Well Type:

Gas Well

Date Well Completed

Total Depth of Well:

5,142.00

LTD:

Attach the drilling report if not previously submitted. In addition, submit any changes in casing and tubing that were approved after the drillinger report was submitted.

## Stimulation Record

Zone 1

Formation Stimulated With:

Perforated: to

No. of Perforations:

Perforation Size:

Formation Broke Down at:

PSIG

Average Injection Rate:

BPM

Average Downhole Injection Pressure: PSIG ISIP: PSIG 5 Min SIP PSIG

Yes: X No: Date Stimulated: Stimulated:

Zone 2

Formation Stimulated With:

Perforated: to

No. of Perforations:

Perforation Size:

Formation Broke Down at:

Average Injection Rate: **PSIG** 

ISIP: PSIG 5 Min SIP PSIG

Average Downhole Injection Pressure: PSIG

Stimulated: Yes: X No: Date Stimulated:

Zone 3

ormation Stimulated With:

erforated: to No. of Perforations:

Perforation Size:

Formation Broke Down at:

PSIG

Average Injection Rate:

BPM

ISIP: PSIG 5 Min SIP PSIG

Average Downhole Injection Pressure: PSIG

Yes: X No: Date Stimulated:

Zone 4

Stimulated:

Formation Stimulated With:

Perforated:

to

No. of Perforations:

Perforation Size:

Formation Broke Down at:

**PSIG** 

Average Injection Rate:

BĖM

ISIP: PSIG 5 Min SIP PSIG

Average Downhole Injection Pressure: PSIG

(Signature)

Stimulated:

Yes: X No: Date Stimulated:

Final Production	<u>After Stin</u>	After Stimulation	
	non	<b>አ</b> ፈርሚኒ	

Hours Tested

Rock Pressure

Final Production if Gas Zones are commingled

230

0

0

Permitee: EQUITABLE PRODUCTION COMPANY (Company)

Form DGO-GO-15 Rev 7/00

Well:

750132

Formation Record

Date Well Completed:

Total Depth of Well:

5,142.00

Permit:

43700

	agel .
Date	06/30/2005
FracType	Varīble
Zone	Weir
# of Perfs	16
From/To	4,474— 4,506
BD Press	2,699
ATP Psi	2,440
Avg Rate	26
Max Press Psi	2,475
ISIP Psi	1,715
10min SOP 1	,479 5 min.
Frac Gradient	0.61
Sand Proppan	at 316.42
Water-bbl	110
CF N2	373,777
)al	400 gal 15%HCL

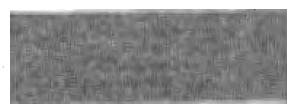
Permit:

43700

Well:

750132





# Dilling Republic

Attach a final location Plat as required by 4 VAC 25-150-360.C

TE DEUDERALES.

Date Drilling Commenced:

Drilling Contractor:

Date Drilling Completed:

Date Well Completed:

Rig Type: Rotary: X

Cable Tool:

Converse Dates Co.

LTD:

DTD: 5,142.00

<u>Type</u>

From / GPM per Inch

Total Seam C. Open March

<u>Type</u>

<u>From</u>

Gas Tests

<u>Depth</u>

Remarks

Cuttings or samples are not available for examanation by a member of the Virginia Division of Mineral Resources Cuttings or samples have not been furnished to the Virginia Division of Mineral Resources



List logs run on wellbore:

GR/Density/Temp/Induction/Neutron

Did Logs disclose vertical location of a coal seem? Yes:

No:⊠

Sili yayiR İstilisi

<u>Depth</u>

Direction/Distance/Degrees From True Vertical

Casing Outside Diameter Casing Interval

Hole Size

Cement used in Cu. ft. Cmtd To Surface Date Cemented

Cement Baskets

Tubing Size

2 3/8

Footage 5,031.95

,		<u>Drill</u>	ers Log	Permit: 43700	Well: 750132
Formation Name	Depth Top	Depth Bottom	Formation Thickness		
·· 먁[]	0.00	5.00	5.00		
1 & Shale	5.00	8.00	3.00		
, )	8.00	483.00	475.00		
Coal	483.00	486.00	3.00		
Shale	486.00	505.00	19.00		
Sand	505.00	555,00	50,00	•	
Shale	- 555,00	.603,00	48.00	Total Depth of Well:	5,142.00
Sand & Shale	603.00	630.00	27.00		
Coal	630.00	634.00	4.00		
Sand	634.00	683.00	49.00		•
Sand & Shale	683.00	688.00	5.00		•
Sand	688.00	1,005.00	317.00		
Sand & Shale	1,005.00	1,044.00	39.00		
Sand '	1,044.00	1,079.00	35.00	•	
Coal	1,079.00	1,082.00	3.00		
Sand & Shale	1,082.00	1,511.00	429.00		•
Coal	1,511.00	1,516.00	5.00	•	
Sand & Shale	1,516.00	2,122.00	606.00		
Red Rock	2,122.00	2,126.00	4.00		
Sand & Shale	2,126.00	2,637.00	511.00		
Ravencliff	2,637.00	2,747.00	110.00		
Sand	2,747.00	2,825.00	78.00	•	
Maxton	2,825.00	3,662.00	837.00	·	
Sand .	3,662.00	3,728.00	66.00		
Shale	3,728.00	3,796.00	68:00 <sup>.</sup>		
Big Lime	3,796.00	4,345.00	549.00	•	
Weir	4,345.00	4,534.00	189.00		
Weir Shale	4,534.00	4,889.00	355.00		4
ffee Shale	4,889.00	4,970.00	81.00		
<b>,</b> )	4,970.00	5,064.00	94.00	•	
Saud & Shale	5,064.00	5,148.00	84.00		
Total Depth	5,148.00	0.00	0.00	·	
Permitee:	EQUITABLE PRODUC	TION COMPANY	(Company)		•

(Signature)

By:

750132

# THIS PERMIT IS NOT TRANSFERABLE

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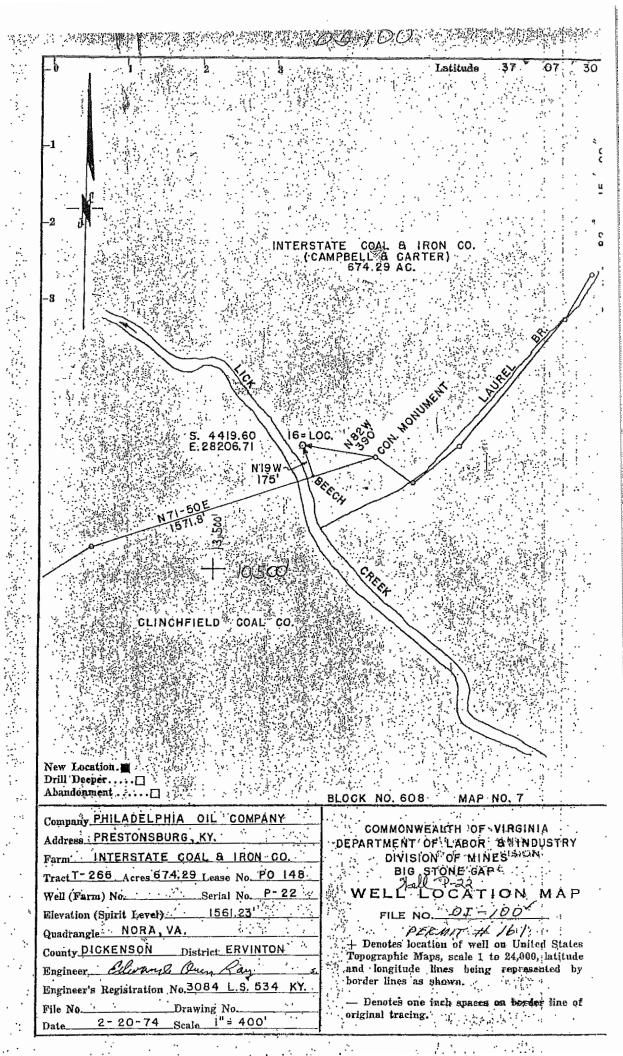
Commonwealth of Virginia
Department of Labor and Industry
DIVISION OF MINES

Permit No. 437
File No. D1-192
Well No. P-132

# Big Stone Gap, Virginia PERMIT TO DRILL\_FOR OIL OR GAS

This is to certify that on this date a permit to drill for oil or gas

n office is at Box 431, Prest	onsburg, Kentucky 41653
eration of Gas Well (Pittst	on Farm)
Nora Quadrangle	County of Dickenson
THIS PERMIT	IS ISSUED IN COMPLIANCE WITH
	8, CODE OF VIRGINIA 1950 AS AMENDED
TITLE 45, CHAPTER	8, CODE OF VIRGINIA 1950 AS AMENDED  t first obtaining a permit as provided herein shall be guilty of a misdemeanor or other of the Code of Virginia. Each day any person drills any oil or gas well without first
TITLE 45, CHAPTER  ng for oil or gas within the State without ribed in Title 45, Chapter 8, Article 7	t first obtaining a permit as provided herein shall be guilty of a misdemeanor or other
TITLE 45, CHAPTER  ng for oil or gas within the State without ribed in Title 45, Chapter 8, Article 7	t first obtaining a permit as provided herein shall be guilty of a misdemeanor or other of the Code of Virginia. Each day any person drills any oil or gas well without first
TITLE 45, CHAPTER  ng for oil or gas within the State without ribed in Title 45, Chapter 8, Article 7 rmit shall constitute a separate offense.	t first obtaining a permit as provided herein shall be guilty of a misdemeanor or other of the Code of Virginia. Each day any person drills any oil or gas well without first DIVISION OF MINES



# COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG STONE GAP, VIRGINIA 24219

# NOTICE OF INTENTION TO (DRILL) (DEEPEN) OIL OR GAS WELL .

feet to the inch, and showing information requi and the 1966 Cumulative Supplement, must be s	pies of a plat or map, an a scale not smaller than 400 red by Section 45.1-114, Code of Virginia, 1950, 195 ubmitted to the Division of Mines and Quarries, and
copies sent by registered mail to all persons def	ined in above low, prior to obtaining a permit to drill.
TO: District of Mineral Inc.	Box 431
TO: Division of Mines and Quarries  Drawer V	Prestonsburg, Kentucky 41653
•	Place
Big Stone Gap, Virginia 24219	March 11 ,1974
	Date
Gentlemen:	
Octification:	
and Quarries, to drill, ***adrible and confidence of the County, Virginia, he grant or lease dated July 25, 1972  to Philadelphia Oil Companyand records in the office of the County Clerk for said County. The proposed location of the well, as shown on the confidence of the County Clerk for said County.	y in Book 159 Page 431 . the attached plat or map, is about 3.52
	· · · · · · · · · · · · · · · · · · ·
about 4.13 (Kart/mile	s) East of Stratton, Virginia
Cuttings will saw that need for examination by a me Cuttings will saw that need furnished the Survey  A plat or map, in triplicate, on a scale not smal cation of the well and other information, require and the 1966 Cumulative Supplement is attached drill, redrill ar deepen the aforementioned well	ut 4754 feet. Samples or cutting therefrom will amber of the staff of the Virginia Geological Survey.  Let than 400 feet to the inch, showing the proposed load in Section 45.1-114, Code of Virginia, 1950, 1954 hereto. Copies of the plat and notice of intention to have been sent to all interested persons as required by names and mail address of each. Use back of sheet if
1. The Pittston Company, Lebanon, Vin	aminia 2/1266 Attentions I F Vetos
2. Vice President of Engineering, 1	
4. Ryland, Division Engineer.	Airginia 25237, Attention: Robert
5	
6,	
City Cappan	Very truly yours,
Signature of affice x parket lixing party:	PHILADELPHIA OIL COMPANY
- dwart L. Kan	Drilling Company or Cperator
Nome f Edward O. Ray	Box 431
NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES NAMES	Street Address
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-	milesex		of		Cematery		
4500 i	feet Nort	theast	of	Middle )	Branch Ch	urch	
Surface of tract	is owned in fee sin	ple by	Clinchfiel	d Coal Com	pany	<del>-</del>	
	, 		Dente, Vir	ginia Tarwini		**	
Mineral rights á	re owned by	**********	CT THOUSE TEST	il Domi oung	JETTÂ		•
	-		1100-0 17-2				
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Rock press Settled pro-	ure: Initial	*****************************	Winds of the second	h	oues <u>.</u>	lbs.	٠.
		<u> </u>		er producin	5		
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	(4)	feet to	teet.	(3)		feet to	
Main produ	witten 4728	feet to feet to		(4).		feet to,	
Fresh wate	r et (1) 25	fcet gn	GPM; (2)680 f	ent show	C1234 . (2)		
Salt water :	at (1)	feet: (2)	feet: (3)		foet (A)	. ,1cet	land
Coal: from	102 fe	etinches t	103 feet (3)	inches : fi	109 m	leet	inches
1656	Inches	irom	eetinches, to	fee!	t incl	hee	
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	trom	feet to	feet with	(quan	tity) of	acid	_
m 1	ironi Sand fractive	feet to ad in Rerea and	feet with Weir with 1000 bb	(quani	tity), of account	acid	ለ 7 -
$k^{(1)}$	1200# 1-120	60 gal F-52	Set frac over plu	α pt /720	Pentono	tod Mode	J gara
Bar	ea formations	3	Dea Tigo ofer bro	5.00 4 12	o terrora	red Merr	and
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	. O	ASING AND TORING			P. (4	eras	
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(inch)	(feet)	(feet)	(feet) to (feet)	Frac-Ove	r 272		<del>វ</del> 201 · · ·
···16	16	16	*****************			***********	1
	311	311					******
11 3/3 8 5/8	1895	1885		******			
4 1/2	4915	4915	**********************			****	*****
			Weir				
	414111444444		4211-15 5 shots	•			
			,4219-22 4 shots	ĺ	T.	ากะคร	•
			4226-28 3 shots		<u> </u>		
			4237-42 6 shots	Size	Usyno zar	PELL IN	PERF
• • • • • • • • • • • • • • • • • • • •	********		Damas		DRULING	West	<u> </u>
•••••••	**;*****		Berea 4738-62 l3 shots	(inoli)	(ft.)	(ft.)	(1 t. t
*********	* * * * * * * * * * * * * * * * * * * *		4768-76 13 shots			• • • • • • • • • • • • • • • • • • • •	
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2	4720	<b>4720</b>		*********			
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	* 1 4 - 1 - 2 - 2 - 2 - 2 - 2 - 2						
Casing	Cemented: 11	3/4 inch from	311 feet to sur	face f	eet. Date	July 11.	1974
44-111-1	Cemented:8	5/8 inch. from	311 feet to sur 1885 feet to sur	face fo	eet. Date	711777 18	1974
	4	1/2 inch. from	1885   feet to sur 49151   feet to 30	66 f	eet, Date	July 21,	1974.
	C						
emarks: (;	Saut down, dept	hs, dates; fishing jo	obs, depths, dates; caving		tes)		
***************	**** *** *** *** ** ** ** ** ** ** ** *	Heavy water f	low at 25'		*********************		*******
	######################################	************	****************************		*****************		*********
	<u> </u>	*************************************					*********
amples or	cuttings will be a	available for examin	ation by a member of th	ie Virginia	Geological Sur	vev	
iii ba fami	-L-14	Conformation Communication		(Yes)		_	X.
A 1117 DC 1177 TIT	sacu tae vargina	Geological Survey	upon request	xyzyx;x:	if sacks for sa	ame are furn	ished t
		•••;•••••••			•		
lectrical loc	madé X or	not made (c					
opy furnish	ed herewith	or will be	submitted on or by	as soc	on as avail	able	
epths	Gamma Density	7	submitted on or by	Philadely	hia Oil Co	mbeni	1
		7		P. O. Box	c 431		•
*******		*************	***************************************	Prestonsl	urg, Kentu	cky	
					***************************************		::
			rrein and log or logs be	kept confid	lential for a p	eriod of nine	ty days
impletion of	t the well covered	by this report	7 Kak	•			
	,		(200)				

# LOG

Furnished by E. B. Jankins Date 12-30-74

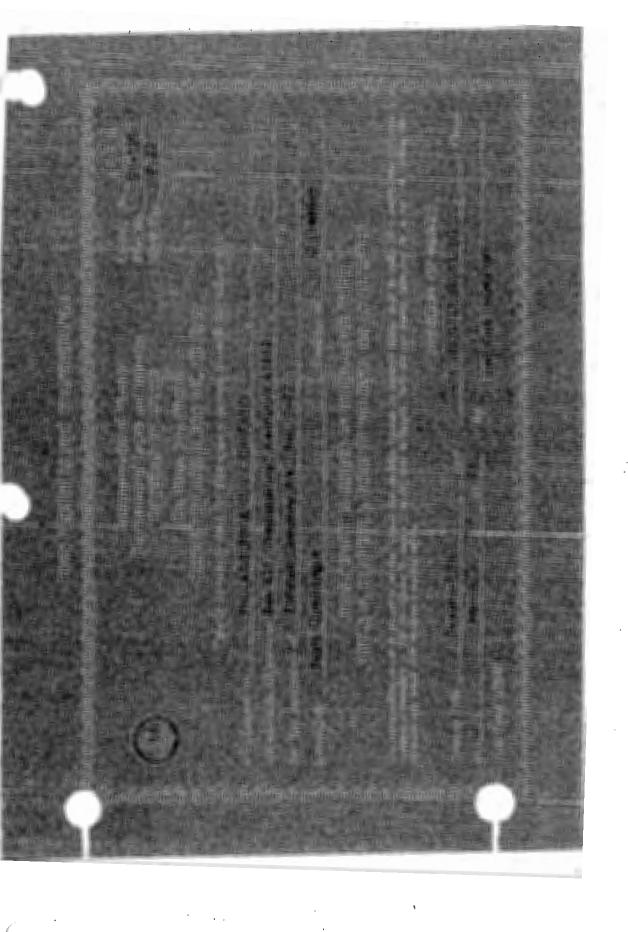
Compiled by E. B. Jenkins Date 12-30-74

Sample No.	FORMATION	Согоя	'Hard or Sort	Tor (feet)	Borrox (fest)	Trickness (feet)	Remari Oil, Gi Water Di
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*** * * *.	Coal			221	223 .	2 :	
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	Coal,		s.,	1190	1193	3	
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· .	Sand & Shale		,	1242	1255	13	
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	Sand			1450	1652	202	ł
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THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON:

E.B. Juntino (de)



37,07 Well No. P-122 .. 5 71.05 New Location. Drill Deeper....□ Abandonment ..... COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR & INDUSTRY. . DIVISION OF MINES Helton, Etal BIG STONE GAP . Acres 238.00 Lease No. PO-270 Serial No. P-123 WELL LOCATION MAP Well (Farm) No. FILE NO. 61-19E Elevation (Spirit Level)... P-123... Quadrangle Nora + Denotes location of well on United States County Dickenson District Ervinton Topographic Maps, scale 1 to 24,000, latitude Surveyor B. C. Spradlin and longitude lines being represented by border lines as shown. Surveyor Registration No. 383

\_Drawing No.

Date 1-27-81 Scale 1"= 4-00"

File No.

- Denotes one inch spaces on border line of

original tracing.

Mcf.; Rock Pressure

\_\_\_\_\_/10ths. Mercury in \_\_\_

\_\_inch.

Initial open flow, gas:

Volume 384 MCF

The Bares Good ----

Gas Well			Gaged		/10ths. v	vater in	inc
Initial open	flow, gas:		Mef + Peak F	roccuro	/10ths, N	1ercury in _	inc.
Stimulation	Regard The	Rerea Sand was	Mcf.; Rock F foam fractured wi	tessure	0 lbs. 80/1	LOO sand.	60,000 lb
20/50 - 8	and, 500 gal	llons Mud Acid.	505,000 scf of Ni	trogen,	and 431 Bar	rels of v	ater. The
			llons 28% HCL and				
Breakdown	Pressure Ber	ea 900/B.L. 0	psi; Average I	njection Pr	essure <u>Berea</u>	<u>1500/B.I</u>	<u> </u>
Average Inj	ection Rate Bez	ea 10/ B. L. 5	BPN	1; Instant S	hut-in Pressu	re <u>Berea</u> J	100/ B.Lp
Min Ohr	it in Proposito			nei			
MIII. DIII.	It-iii Liessure			, раг.			
Final Opens	low Berea 98	34/ B.L. 880	Mcf.; Rock Pressure	Berea	600/ B.L. 8	350 lbs	72 h
Gas pays at	(1)	feet to	feet. Gas sh	ows at (1)		feet to	fee
	(2)	feet to	feet.	(2)		feet to	fee
	(3)	feet to	feet.	(3)	·	feet to	fee
	{4}	feet to	reet.	(4)		. ieet to	1ee
Main produ	ction <u>Berea. 50</u>	148_ feet to _54	62 feet. 39	(5)		feet to	fee
Fresh water	at (1)	feet,	GPM; (2)	_feet,	_GPM; (3)	feet,	GPM
Salt water a	t (1) See Drillers	feet; (2)	feet; (3) ofeet	f	eet; (4)	fee	it.
Coal: from .	inch o	inches to	oct rebox t	. inches; iro	omree	inches	icnes to
1eet _	inche	s; 110m 1	eetinches, t	.0	TEEP	niches.;	
	C/	DRIGUT DNA DRIZA			Packers or	BRIDGE PLUC	3s
Size	USED IN	LEFT IN	PERFORATED				
0,22	Drilling	WELL		Kind	Size		SET AT
(inch)	(feet)	(feșt)	((set) to (feet)	Retaine	r P1119	538	13
11 3/4"	36'	0		ACCUALITY.	1145		
8 5/8	2563'	2563					
4 1/2	5530'	5530	5408-5423	ļ			
			5433-5445	<del> </del>			
			5456-5462 4329-4339	<del></del>	<u></u>		
2 3/8"	5380'	5380	4329-4337	1			
		3300			_		
					III	YERS :	-γ
		•	·	Size	Used in Drilling	LEFT IN. WELL!	PERFORATE
		·		<b>_</b>	DRILLING	WELL:	<del></del>
				(inch)	(ft.)	(ft.)	(ft. to ft.)
					*		<del>                                     </del>
					NONE		1
				<u> </u>		<u> </u>	<u></u>
Casing (	Cemented: 8 5	5/8 inch from	2563 feet to Suri	face D	ate 3-2	7-82	
5			5530 feet to 3820			-82	
:			feet to		ate		
emarks: (St	ut down, depti	as dates: fishing io	bs, depths, dates; cavin	g: other no	otes)		
	nav ao maj aop m	so, direct, sending jo		.,,			
				<u> </u>			
							(Ye
amples or cu	ittings will be a	valiable for examin	ation by a member of		_		(byte)
ill be furnis	hed the Virginia	a Geological Survey	upon request	(Xes)	if sacks for sa	me are furn	ished by th
			(Yes)	(AYA)			
iivey			(KA)				
lectrical log	made or	not made(che	eck which.)				
opy furnishe	ed herewith	or will be	submitted on or by	previous.	ly submitte	ed	, 19
epths Tem	perature 557	<u> 14-2563                                     </u>					,
		5574-surface					
			erein and log or logs b	e kept con	fidential for	a period of	ninety day
ter complet	ion of the well	covered by this rep	ort				
			XXX	X.,			

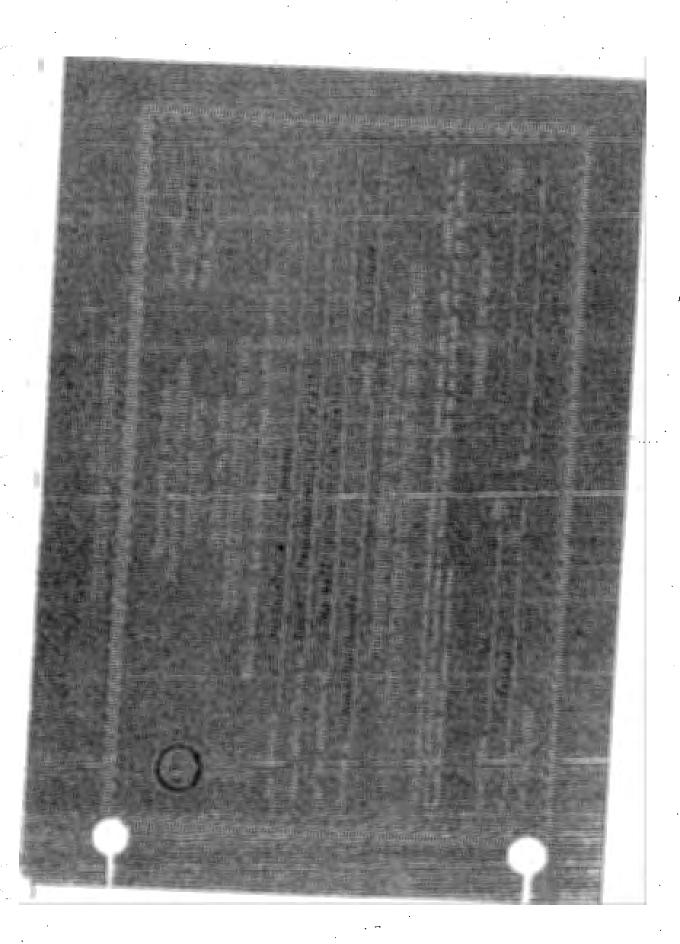
j

# LOG

Furnished by E.R. Minns Date 7-13-82

Compiled by R. McCleese Date 7-5-82

Geologic Age	FORMATION	General Lithology	COLOR	TOP (feet)	BOTTOM (feet)	THICKNESS (leet)	REMARKS OIL, GAS WATER DEPTHS SHUT DOWN FISHING, ETC.
	Fill Shale Sd & Sh Sand Coal Sand & Shale Sand & Shale Sand & Shale Sand & Shale Red Rock Sand & Shale R.R. Shale & R.R. Shale & R.R. Sand & Shale Revencliff Sand & Shale Revencliff Sand & Shale Revencliff Sand & Shale Sand Maxon L. Lime Sand & Shale Sand Maxon L. Lime Sand & Shale Big Lime Keener Weir Coffee Shale Berea Shale T.D.			0 10 30 90 390 393 1377 1560 1730 2058 2519 2570 2596 2596 2598 2776 3028 31.82 3260 3435 4216 4240 4290 4755 4940 5320 5395 5482 5574	10 30 90 338 393 1377 1560 1730 2058 2519 2570 2596 2598 2776 3028 3182 3260 4216 4240 4290 4755 4940 5395 5574	10 20 60 248 3 984 183 170 328 461 51 20 6 2 178 252 1,54 78 175 781 24 50 465 185 380 75 87 92	Gas @ 4340 - 1387 MCF Gas @ 4700 - 620 MCF Gas @ 5574 - 2,60 MCF



00.219 Latitude -2 Œ) -3 S. 7,362.12 E. 33,120.13 157.09 Ac.

New Location.

Map Ho.13 BIGER Ho.609

Company.Philadelphia Oil Co.

Address Hora, Ya.

Farm Jesse Wampler

Tract Acres 3157.09 Lease No. Po-148

Well (Farm) No. Serial No. P-139

Elevation (Spirit Level) 1874.83'

Quadrangle Mora, Va.

County Dickenson District Kenady

Surveyor B.C. Spradling

Surveyor Registration No. 782

File No. Drawing No.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR & INDUSTRY DIVISION OF MINES

BIG STONE GAP

# WELL LOCATION MAP

FILE NO.\_\_\_\_

- + Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.
- Denotes one inch spaces on border line of original tracing.

138

Cro be filled in by Division of Mines)  DEPARTMENT OF UND SCHOLDS OF MINES  PERMAN OF Birtiet OIL AND GAS WELL COMPLETION REPORT OUTS OF MINES  OUTS OF MINES OF MINES  Permit No. 530  Permit No. 530  County Code of School of Mines within 30 days after abandaneance completed of velt. are equively section of County Oil Company  Philadelphia 0il Company Address Prestore Well No. (Company District Kenady District Kenady District Kenady Oil Company Philadelphia oil Company District Kenady Oil Company Philadelphia oil Company District Kenady District Company District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District District Di	DM Form 7						
DIVISION OF MINES.    County	(To be filled in by	=	•				
District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District   District	JICKENSON	DIVIS	OF ASSO	E WNES	)	Well No. P	1.3 <i>9</i>
District   No. Ref.	County KENAOY	Big S	DINE GA	P, VIRCOAIA	65		
Well    Classification   Classification   Classification   Classification   Classification   Classification   Classification   File	District'	OIL AND GAS V	概L CC	MPLETION	EPORT	County Code	051
Company   Philadelphia 0il Company   Address   P. O. Box 431   Prestonsburg, KY 41653		(This report and be submitted to the abandonment or cor	a copy of Division of npletion of	Mines within 30 well, as required	O days after	Well Classification	DEVL
Farm Jesse Wampler County Dickenson District Kenady Well No. (Company) P-139 Liceation: (Give direction and distance in feet from two (2) map coordinates (Latitude and Longitude on location plat or map previously filed with the Division of Mines or shown on quadrang graphic map of area.)  5990¹ feet West of 82° 15¹ 00″  550¹ feet South of 37° 05¹ 00″  Surface of tract is owned in fee simple by Clinchfield Coal Company Address P. O. Box 7, Dante, VA 24237  Mineral rights are owned by Clinchfield Coal Company Address P. O. Box 7, Dante, VA 24237  Location made by Mr. Bill C. Spradlin Drilling commenced 7-13-A2 Drilling completed 7-23-B4 Address Buckhannon, W.VA  Well completed as gas well on 9-21-B4  Well abandoned at feet on Reason Well plugged on 5,392¹ feet Steel line measurement Commenced production, Barrels per day.  Stimulation Record  Breakdown Pressure psi; Average Injection Pressure  Breakdown Pressure BPM; Instant Shut-in Pressure	Company Philadelphia				P. O. Box	431	
District   Kenady   P-139   Elevation (ground surface)   1729.57	Topas Yama	A.W.	<del></del>				
Well No. (Company) P-139  Elevation (ground surface) 1729.57  Location: (Give direction and distance in feet from two (2) map coordinates (Latitude and Longitude on location plat or map previously filed with the Division of Mines or shown on quadrang graphic map of area.)  5990' feet West of 82° 15' 00"  550' feet South of 37° 05' 00"  Surface of tract is owned in fee simple by Clinchfield Goal Company Address P. O. Box 7, Dante, VA 24237  Mineral rights are owned by Clinchfield Coal Company Address P. O. Box 7, Dante, VA 24237  Location made by Mr. Bill C. Spradlin Drilling commenced 7-13-84  Drilling completed 7-23-84  Well completed as gas well on 9-21-84  Well abandoned at feet on Reason  Well plugged on 1, 19 Affidavit filed  Total depth 5,392' feet. Steel line measurement  Commenced producing on not connected to pipeline system 19  Oil Well  Initial production, Barrels per day.  Stimulation Record	Farm Jesse Wampa	rer	<del></del>				
Location: (Give direction and distance in feet from two (2) map coordinates (Latitude and Longitude on location plat or map previously filed with the Division of Mines or shown on quadrang graphic map of area.)  5990' feet West of 82° 15' 00"  550' feet South of 37° 05' 00"  Surface of tract is owned in fee simple by Clinchfield Coal Company Address P. O. Box 7. Dante. VA 24237  Mineral rights are owned by Clinchfield Coal Company Address P. O. Box 7. Dante. VA 24237  Location made by Mr. Bill C. Spradlin Drilling commenced 7-13-84 Drilling contractor Union Drilling Co. J. Drilling completed as gas well on 9-21-84  Well completed as gas well on 9-21-84  Well abandoned at feet on Reason  Well plugged on 19 Affidavit filed Commenced producing on not connected to pipeline system 19  Oil Well Initial production, Barrels per day.  Stimulation Record PPH; instant Shut-in Pressure  PSI; Average Injection Pressure  BPM; Instant Shut-in Pressure	Well No (Company) P-139		_	Elevation (	pround surfa	ice) 1729.57	
Surface of tract is owned in fee simple by Clinchfield Goal Company Address P. O. Box 7, Dante, VA 24237 Mineral rights are owned by Clinchfield Coal Company Address P. O. Box 7, Dante, VA 24237 Mineral rights are owned by Clinchfield Coal Company Address P. O. Box 7, Dante, VA 24237 Location made by Mr. Bill C. Spradlin Drilling commenced 7-13-84 Drilling completed 7-23-84 Drilling completed 7-23-84 Mell completed as gas well on 9-21-84 Well abandoned at feet on Reason Well plugged on 1,19 Affidavit filed Total depth 5,392' feet. Steel line measurement Commenced producing on not connected to pipeline system 19  Oil Well Initial production, Barrels per day. Stimulation Record  Breakdown Pressure psi; Average Injection Pressure Breakdown Pressure BPM; Instant Shut-in Pressure	Location: (Give direction as on location plat	nd distance in feet : or map previously	from two	the Divisio	n of Mines	Latitude and Lor or shown on qu	ngitude) shov ladrangle top
Surface of tract is owned in fee simple by Clinchfield Coal Company Address P. O. Box 7, Dante, VA 24237  Mineral rights are owned by Clinchfield Coal Company Address P. O. Box 7, Dante, VA 24237  Location made by Mr. Bill C. Spradlin Drilling commenced 7-13-84 Drilling completed 7-23-84 Drilling completed 7-23-84 Well completed as sax well on 9-21-84  Well abandoned at feet on Reason Well plugged on 7-3921  Total depth 5,3921  Get. Steel line measurement Commenced producing on not connected to pipeline system 19  Oil Well Initial production, Barrels per day.  Breakdown Pressure psi; Average Injection Pressure Average Injection Rate BPM; Instant Shut-in Pressure	5990' feet	West	_ of	82°	15' 00"		a
Address P. O. Box 7, Dante, VA 24237  Mineral rights are owned by Clinchfield Coal Company Address P. O. Box 7, Dante, VA 24237  Location made by Mr. Bill G. Spradlin  Drilling commenced 7-13-84  Drilling completed 7-23-84  Well completed as gas well on 9-21-84  Well abandoned at feet on Reason  Well plugged on 1, 19 Affidavit filed  Total depth 5,392 feet. Steel line measurement  Commenced producing on not connected to pipeline system 19  Oil Well  Initial production, Barrels per day.  Stimulation Record  Breakdown Pressure psi; Áverage Injection Pressure  Average Injection Rate BPM; Instant Shut-in Pressure	550'feet	South	_ of	37°	051 0011		
Stimulation Record	Address Location made by Mr. Bill Drilling commenced 7-13-84 Drilling completed 7-23-84 Well completed as gas well on Well abandoned at Well plugged on Total depth 5,392 Commenced producing on not Oil Well	P. O. 1 C. Spradlin  9-21-84  feet on  connected to pin	Box 7,	Dante, VA  prilling contra ddress  Affidavit files Steel line me ystem , 19	24237 Letor Un Bu	ion Drilling ( ckhaunou, W.V	Co., Inc.
Breakdown Pressure							
	Breakdown Pressure			rage Injection	Pressure		ps
Post;							
Final Production Barrels p		,				В	arrels per daj
Gravity and grade of oil							
Oil pays at (1) feet to feet. Oil shows at (1) feet to				Oil shows at	(1)	feet to	fee
(2) feet to feet, (2) feet to (3) feet to feet, (3) feet to	(2)	feet to	_ ieet,		(2)	ieet to	iee
(4) feet to feet. (4) feet to					(4)	feet to	fee
Vain production at feet to feet. (5) feet to					(5)	feet to	fee

Gas Well
Initial open flow, gas:

6 /10ths. Water in /10ths. Mercury in

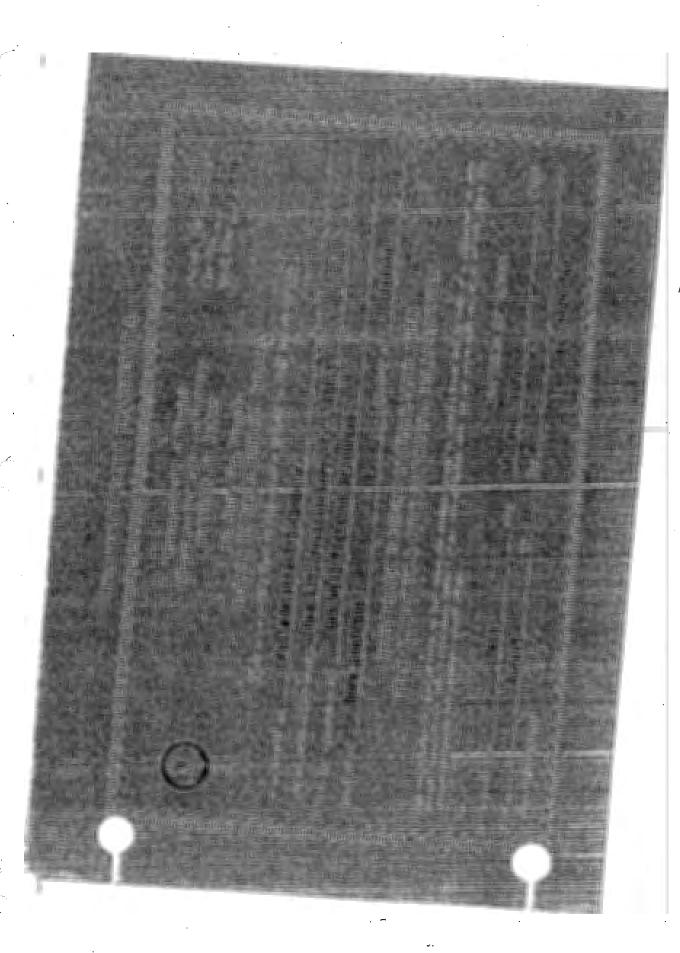
			r were treated wi r was water frace		1 of 110,00	00 #sand.	The Berea
						- :	
Average In	jection Rate <u>Ber</u> -	-10 / Weir~1	00psi; Average	M; Instant S			
Min, Sł	nut-in Pressure			psi.			
Final Oper	nflowBer-377M	Weir-189M	Mcf.; Rock Pressur	e Ber-660	#/Weir-800/	lbs	hr
'Gas pays a	t (1) <u>4948</u>	feet to <u>50</u>	o20 feet. Gas sh	ows at (1)		feet to	feet feet
	(3) 4426	feet to44	020 feet, Gas sh feet. 491 feet. feet,	(3)	,	feet to	feet
Main nrod	(4)	feet to	feet, feet.	(4)		feet to _	feet
		•					
Fresh water	er at (1) 17	feet,	GPM; (2) feet; (3) 75 feet eet inches,	_feet,	_GPM; (8)	feet,	GPM
Coal: from	72 feet	inches to	75 feet	_ inches; fro	om	ti	nches to 257
feet	inches	from 360 fe	eet inches,	to 365	_feet : 484-	487'; 50.	5-5081; 945
	. CAL	TOZO . SING AND TUBING			PACKERS OR	BRIDGE PLU	GS
Size	Used in Drilling	LEFT IN WELL	Perforated	KIND	Size		SET AT
(inch)	(feet)	(feet)	(feet) to (feet)	G.O.			
11-3/4"	381	38 <sup>t</sup>		Frac_Rei	giner 4½"	49	23!
8-5/8"	20881	20881	4948-5020				
4-1/2	53531	53531	4426-4491	-	<del> </del>		
2-3/8"	49481	4948					
				-			
						ERS '	1
				Size	Used in Drilling	LEFT IN WELL	PERFORATED
				(inch)	(ft.)	(ft,)	(ft. to ft.)
						·	
Casing	Cemented: 8-5,	/8 inch. from	2088 feet to sur T.D. feet to 380	face Da	ate 7-19	)-84 84	
			feet to				
Remarks: (8	Shut down, depths	s, dates; fishing job	os, depths, dates; cavir		•		
				<del></del>			
					1	•	/T/~=\
Samples or o	cuttings will be av	ailable for examin	ation by a member of	the Virginia	a Geological S	urvey	
Will be furni Survey	ished the Virginia	Geological Survey	upon request (Yes)	—— XXXX,	if sacks for sa	me are furr	ished by the
Electrical lo Copy furnisl	g made <u>X</u> or no	ot made(che or will be		Previous	y Submitte	đ	, 19
Depths	LDT - total de	epth to surface	<u> </u>				
o operator fter comple	requests that infection of the well co	ormation given he	erein and log or logs boot		fidential for a	period of	ninety days

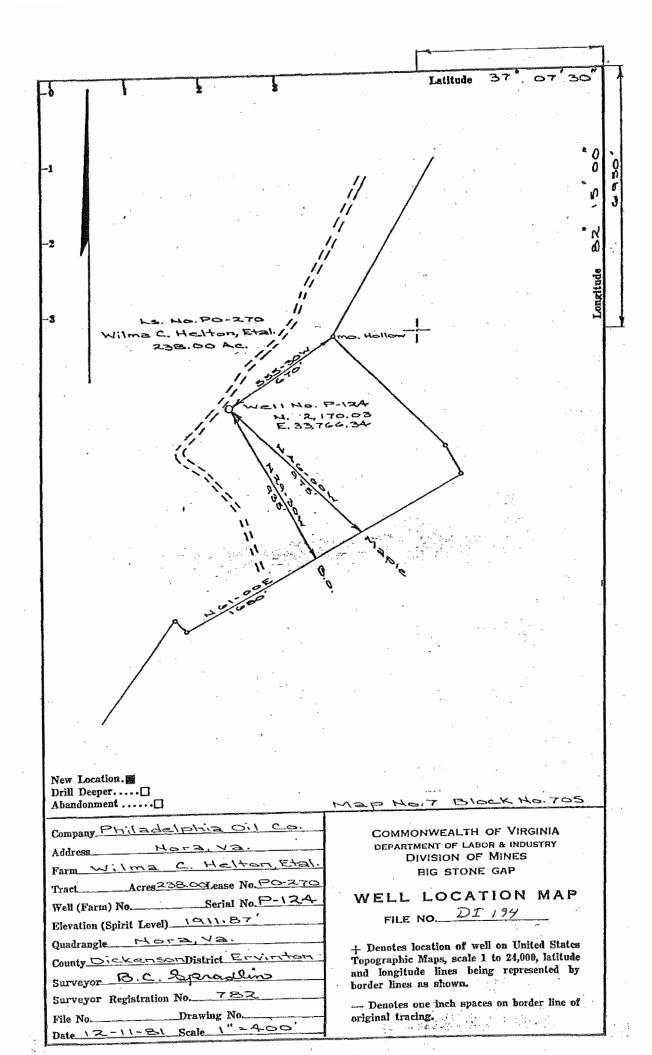
LOG

Furnished by H.E.Gardner, Jr Date 10-09-84

Compiled by G.B. Camp Date 10-5-82

	FORMATION	General Lithology	Color	TOP (feet)	BOTTOM (feet)	THICKNESS (feet)	Remarks Oil, Gas Water Dept Shut Dow Fishing, et
	a. 7. 5 a. 7.			0	30	30	Water @ 17
	Sandr & Shale			30	72	42	
	Shale .	ĺ		72	75	3	•
	Coal		,	75	111	36	
	Shale			111	254	143	
	Sand Coal			254	257	3	
	Shale & Sand			257	360	103	
	Coal	i		360	365	5	
	Sand			365	422	57	
	Shale		•	422	484	62	
	Coal			484	487	3.	
	Sand	ĺ	•	487	505	18	
•	Coal	,	•	505	508	3	
	Sand			508	759	251	
	Shale	1		759	772	13	
•	Sand			772	789	17	
	Shale			789 803	803 904	14 101	
•	Sand		,	904	945	41	
•	Shale	ļ		945	943	2	
	Coal			947	1443	496	
	Shale Sand			1443	1461	18	
pi 219	Shale	İ		1461	1474	13	
b/ -	Coal			1474	1477	3	
•	Shale			1477	1506	29	
	Sand	ı		1506	1796	209	
•	Shale			1796	1821	25	
	Sand			1821	1908	87	
•	Shale		•	1908	1923	15	
	Coal			1923	1928	5	
`.	Shale	İ		1928 1930	1930 2150	2 220	
•	Sand & Shale	1	•	2150	2515	365	
	Sand Ravencliff	1		2515	2728	213	
	Sand & Shale	-		2728	3038	310	
•	Махоп	. [		3038	3678	640	
	Sand & Shale	·		3678	3732	54	
	Little Lime			3732	3814	82	
	Big Lime			3814	4304	490	
	Keener	.		3404	4364	60	
	Weir	ĺ		4364		518	
	Coffee Shale		•	4882	4942	60	
	Berea		•	4942	5023	81 369	
	Brown Shale			5023 5392	5392		
	Total Depth			2332	1		
						-	
j		1				ļ	
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D	Dirition of Mines			VIRGINIA		Divisio	e filled in by on of Mines)
	CKENSON	DEPAR	TMENT OF LABOR DIVISION OF			ell No	
-	County		BIG STONE GAP, V			mit No	
	Phinet Phinet	OIS AN	DEEPENE D GAS WELL COM	D D		ounty Code	
	NOZA Quadrangla	OIL MM	MICOUNEY CAD C	ENT		ell	
	D1-144 Fite		report and x copy of electronics to the Division of Mic nest or completion of well, Code of Virginia, 1950.)	deal log, if mu ses within 50 o ses required b	Loys after	assification	DEVELOPMENT
Company	/ Philadel	phia Cil Company		ddress	P.O. Bax 43	1	
Farm	Wiles C.	Halton, Etal.		cres2	onsburg, KY	41013	
County_ Well No.	_Dickenson (Company)	P-124		istrict <u>E</u> evation (gre	ound surface)	1911.87	ft.
Location	<ul> <li>(Give dice on location graphic ma</li> </ul>	n plat or map pre	in feet from two (2) viously filed with th	e Division	dinates (Latil of Mines or	tude and L shown on a	ongitude) showe quadrangle topo
695	0 fee	tsouth			30**		nd
510	10 fee	West	of 82	° 15' 3	10"		
Surface o: Address _	f tract is owner  Star Ros	d in fee simple by _ rte_Rox_353_ Dan	Anthony C. Vein	garten, 1	tal.		
Mineral ri, Address _	ghts are owned	l by <u>Clinchfie</u> Dante, Vi	ra, Virginia 2423 ld Coal Company rginia 24237		<u> </u>		
Drilling ec	made by emmenced	Hr. B. C, Sprad 4-4-82 4-15-82	Drilli	ng contract	or Union Di rawer 40 B	rilling Is sekhannan	w VA 26201
Vell comp	oleted as gas	ilon <u>5–19–8</u>	2				
Vell abanc Vell plugg	nd on	feet	, 19, Affi	davit filed .	: Reason _		19
otal dept commenc	h 5144 ed producing o	n Not connec	feet, Stee	l line meast	nement		feet.
	- Carl			******			<del></del>
	duction,		Ватте	ls per day.			
itimulatio	n Record	<del>-</del>					
	n Pressure jection Rate .		psl; Average	Injection P	ressure Shut-in Pressu	ure	psi; psi;
		re		psî;	2140101		
	uction						Barrels per day.
otavicy and Dil pays at	d grade of oil.	feet to	feet. Oil s			feet to _	feet.
	(3)	feet to	feet.	(2 (3	}	feet to feet to	feet, feet,
fain produ	(4) action at	feet to feet to	feet.	(4 {5		feet to feet to	feet.
				···			
sand yater	Record To 500 gallons t. The Big and 555 bar	75 se Herea was Foss s Mad Acid 557,0 Line was water trels of water.	Mcf.; Rock m fractured using 00 standard cubic fractured using 3	Pressure 30,000 1 feat (Sc 0,000 1bs	/10ths. / bs. 80/100 f) of Nitro of 20/50	lbs. sand, 60 ogen and sand, 300	inch. hrs. ,000 20/50 478 Barrels of 0 gallous 28%
eakdown	Pressure Bere	Mud Acid 557,0 Line was water rels of water.  a -1800 psi/B.L. Beres -10/ B.L.	2100 psi; Average -12 BP:	Pressure	bs. 80/190 f) of Nitro of 20/50	sand, 60 ogen and sand, 300 a-1800/B.	hrs. ,000 20/50 478 Barrels o 0 gallons 282 L2500 psi:
eakdown	Pressure Bere ection Rate	ne Berea was Feas Mud Acid 557,0 Line was water Trels of water.  na -1800 psi/B.L Berea -10/ B.L. Berea 1200 psi 327, B.L. 423	2100 psi; Average -12 BP: -12200 Mcf.; Rock Pressur	Pressure 30,000 1 feat (Sc 0,000 1bs  Injection Pr M; Instant 8 psi. e Berea	be. 80/100  f) of Niero  of 20/50  ressure Bores  inut-in Pressur  600, B.L. 8	lbs. sand, 60 ogen and sand, 390  a-1800/B. re Berea B. L. 2	,000 20/50 478 Barrels o 0 gallous 28X L2500 psi; 1300 psi; 72 hrs.
eakdown verage injoint	Pressure Bere ection Rate utin Pressure (1)	ne Rerea was Yes S Mud Acid 557,0 Line was vater rels of vater. ne -1800 psi/B.L. Berea -10/ B.L. Berea 1200 psi 327, R.L. 423 feet to	2100 psi; Average -12 BP1. 2200  Mof.; Rock Pressur feet, Gas st	Pressure 30,000 1 i feat (Sc 0,000 lbs  Injection Pr M; Instant 8 psi.  Berea iows at (1)	bs. 80/190 f) of Niero of 20/50 of 20/50 ressure Bores Shut-in Pressur 600, B.L. 8	sand, 600 ogen and sand, 300 n-1800/B.  Berea B.L. 2.  850 lbs.  feet to	,000 20/50 478 Barrels o 0 gallous 28X L2500 psi; 1300 psi; 72 hrs.
eakdown verage Inj 5Min, Shi nal Openi as pays at	Pressure Bere ection Rate strin Pressure (1) (2) (3)	ne Berea was Fess Mud Acid 557,6 Line Was water rels of vater. ea -1800 psi/B,L Berea -10/ B.L. Berea 1200 psi 327, B.L. 423 feet to feet to feet to		Pressure 30,000 1 is feat (Sc 0,000 lbs 0,000 lbs 1 lnjection Promise psi.  Berea iows at (1) (2) (3)	bs. 80/190 f) of Niero of 20/50 of 20/50 ressure Eores Shut-in Pressur 600, B.L. 8	a-1800/B. Berea B.L. Z.  850 lbs. feet to feet to	hrs. ,000 20/50 478 Barrels o 0 gallous 28X  L2500 psi; 3300 psi; 500 psi 72 hrs. feet. feet.
eakdown verage Inj 5Min, Shi nal Openi as pays at	Pressure Bere ection Rate strin Pressure (1) (2) (3)	ne Berea was Fess Mud Acid 557,6 Line Was water rels of vater. ea -1800 psi/B,L Berea -10/ B.L. Berea 1200 psi 327, B.L. 423 feet to feet to feet to		Pressure 30,000 1 i feat (Sc 0,000 lbs  Injection Pr M; Instant 8 psi.  Berea iows at (1)	bs. 80/190 ef) of Nitro of 20/50 essure Eores Shut-in Pressu 600, B.L. 8	sand, 600 ogen and sand, 300 n-1800/B.  Berea B.L. 2.  850 lbs.  feet to	hrs. ,000 20/50 478 Barrels o 0 gallous 28X  L2500 psi; 3300 psi; 500 psi 72 hrs. feet. feet.
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(3)  Gestive Set (4)  GPM; (4)  GESTIVE SET (4)  GPM; (3)  GPM; (4)  GPM; (4)  GPM; (4)  GPM; (4)  GPM; (4)  GPM; (4)  GPM; (4)  GPM; (4)  GPM; (4)  GPM; (4)  GPM; (5)	a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.  a-1800/B.	,000 20,500 478 Barrels o 0 gallons 28x 478 Barrels o 0 gallons 28x L -2500 psi; 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HCl , reakdown verage Inj 55Ain, Sh nal OpenI ss pays at ain produces water at cish water at air from feet  1 374 3 5/8" 4 1/2"	Pressure Berection flate	na Hertya ana Foo  Nud Acid S57, 2  Line was water  rela of vater.  12 - 1800 psi/B.j.  Berea - 10/ B.t.  Berea - 10/ B.t.  Serea - 10/ B.t.  Geet to  Geet to  Geet to  Geet to  Geet, 1/2 at  feet,		Pressure 30,000 1 feet (\$c 0,000 lbs   Injection Pim; Instant 8 psi.  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Average -12 BP /B.L. 2200  Mof.; Rock Pressur	Pressure	Det. 80/100  f) of Nier. of 20/50  sessure Ence: shut-in Pressur  600, B.L. 1  GPM; (3)  eet; (4)  m feet  PACKENS OR  DETLEMEN  (6.2  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE  110 NE	sand, 60 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen og sand, 300 ogen og sand, 300 ogen og sand, 300 ogen og sand, 300 ogen og sand, 300 ogen og sand, 300 ogen og sand, 300 ogen og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 300 og sand, 30	,000 20/55 ,478 BARTCLE 0 0 gallous 28X L-2500 psi; 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\_\_\_\_ File No. \_\_\_\_ DI-194 Well No. P-124

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Furnished by E. R. Hinns Date 7-12-82

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E. R. Midns, Chaff Geologist

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File No. Dr 195 Well No.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG TONE GAP, VIRGINIA 24219 PHONE 703-523-0335

APPLICATION FOR PERMIT TO (DRILL) (REDRILL) (DEEPEN) OIL OR GAS WELL
(Required by Section 45.1-115.1, Code of Virginia, 1950, 1954 and the 1966 Cumulative
Supplement. To be accompanied by Permit fee of one hundred dollars and bond and surety
therefor, as specified by Section cited. To be submitted in triplicate, one copy to be re-
turned to applicant after action by Division of Mines and Quarries.
TO. Division of Mines and Quarries
219 Wood Avenue  Box 431
Big Stone Gap, Virginia 24219 Prestonsburg, KY 41653
Place
December 28, 1981
Date
Gentlemen:
The undersigned hereby makes application for a Permit to drill, redrMXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
out two) a well for oil or gas on the Wilma Welton etaFarm, comprising 238.00acres, in
the Ervinton District of Dickenson County, Virginia, having the fee title there
to or as the case may be, under grant or lease dated July 26 ,19 74 made by Wilma
C. Helton et al to Philadelphia Oil Company
and recorded on the 25 day of August ,1975 in the office of the County Cler
for the said County in Book 172 page 576
The proposed location of the well is shown on a location plat or map submitted to the
Division of Mines and Quarries, by the undersigned, together with Notice of Intention to
Drill, XXXIVIXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
The proposed well will be known as Well No. P-124 of Philadelphia Oil Company
(company, etc.) It is proposed to drill this well to a depth of about 5089 feet.
The proposed location is about 670 feet distant from the nearest property or lease
line; about 7500 feet distant from the nearest mining opening, XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
words not applicable) and/or about 11400 feet distant from the nearest drilling, Maketon
YOUR NOT Experience of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o
not applicable) well.
There is enclosed herewith a certified check or U. S. Postal Money Order, in the amount
of one hundred dollars (\$100), payable to the Treasurer of Virginia, covering fee for a
Permit to Drill a Well for Oil or Gas, as required by Section 45.1-115.1, Code of Virginia
1950, 1954 and the 1966 Cumulative Supplement. Bond and Surety therefor to insure com-
pliance with the provisions of Chapter 8, Title 45, Code of Virginia, 1950 and the 1966
Supplement, for this well, in the amount of \$ 25,000.00 is submitted herewith of (give
status of) Blanket Bond covering Wells Nos. P-116 through P-140
Correspondence regarding this well should be addressed to Mr. B. D. Hager, Box 431,
Prestonsburg, Kentucky 41653
Very truly yours,
Signature of officer or certifying party:
Name Drilling Company or Operator  B. D. Hager, Operating Manager Box 431
XXXXXX Street Prestonsburg
City or Town
Kentucky 41653
State
Space below this line is for the use of the Board only.
ACTION OF DIVISION OF MINES AND QUARRIES
Received on Action of Mines And Containing
Approved and Permit (no. 462) granted on Jonuary 11 19 fr
Reasons for denial
Division of Mines and Quarries
By B. 2. Fulmer State bil and Has Soup.
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Permit No. 462



(2)

Address Correspondence to: P. O. Box 313 Zip Code 24272

# OPERATIONS PLAN

on Left Fork of Lick Creek in Dickenson County, Virginia. A rotary rig will be used to drill this well requiring approximately fourteen (14) days to drill this well to total depth. Approximately thirty (30) days after the well has been drilled a cable tool spudder will be moved onto the location to fracture and complete the well. The casing program is as follows:

Casing Size	Depth	Remarks
16 inch	30'	Case off fresh water.
8-5/8 inch	2,155'	Set in top of Red Rock and cemented to surface to contain possible formation water and protect all coal seams.
4-1/2 inch	5,089'	Production casing to be set at total depth and cemented through gas bearing formations.
2 inch	5,064'	Production string.

- Site preparation is expected to begin January 20, 1982 and final well completion is expected July 17, 1982. Reclamation is expected to be completed by October 17, 1982.
- Soils are of the loam to silt type, medium depth, with no erosion problems anticipated. No timber will be encountered in the project area. The well site and pit areas will be constructed on a flat with a 2° slope.

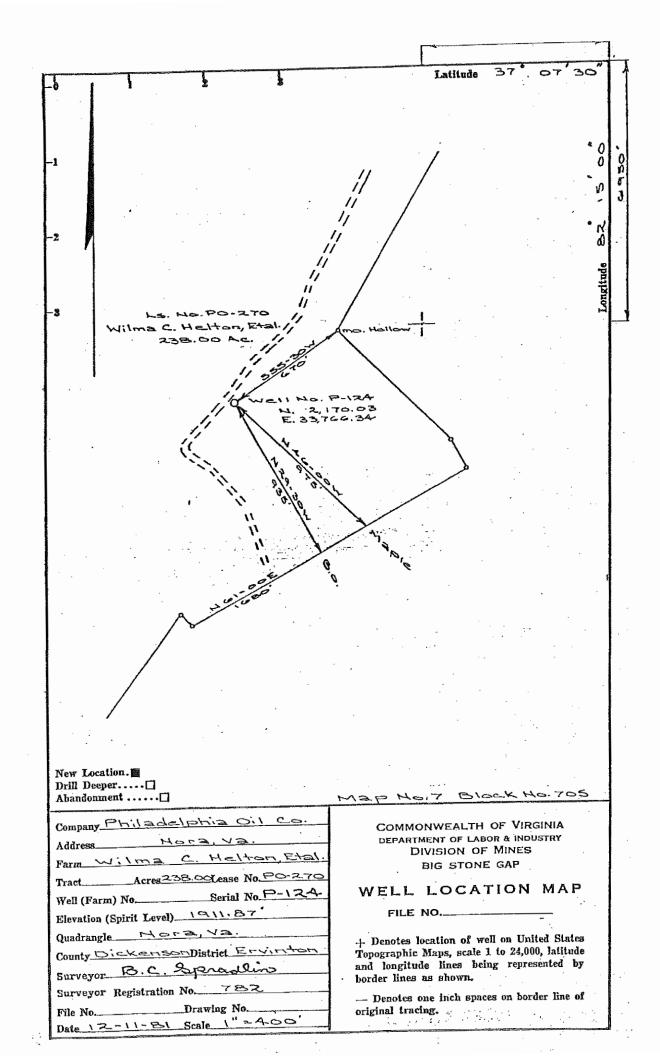
  Approximately 100 feet of access road will be constructed from a public road to gain access to the drill site. Pipe culverts will be maintained adong the existing road to provide proper drainage. Cut and fill areas along the

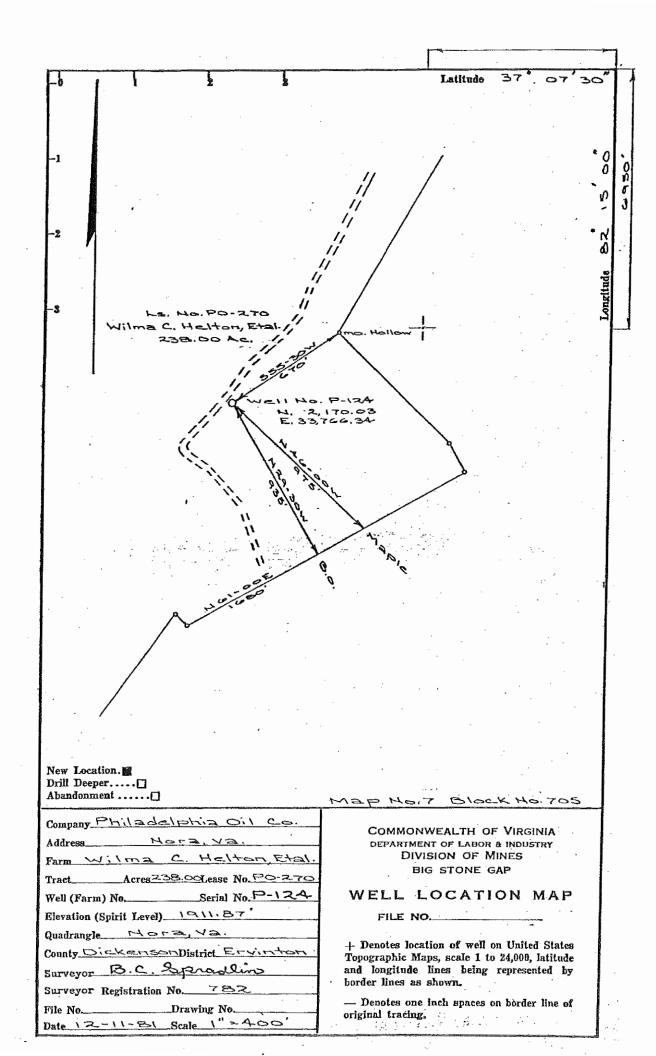
constructed road will be sown with Ryegrass and KY 31 Fescue to stabilize the affected areas and prevent erosion. The entire project area comprises of 1.22 acres.

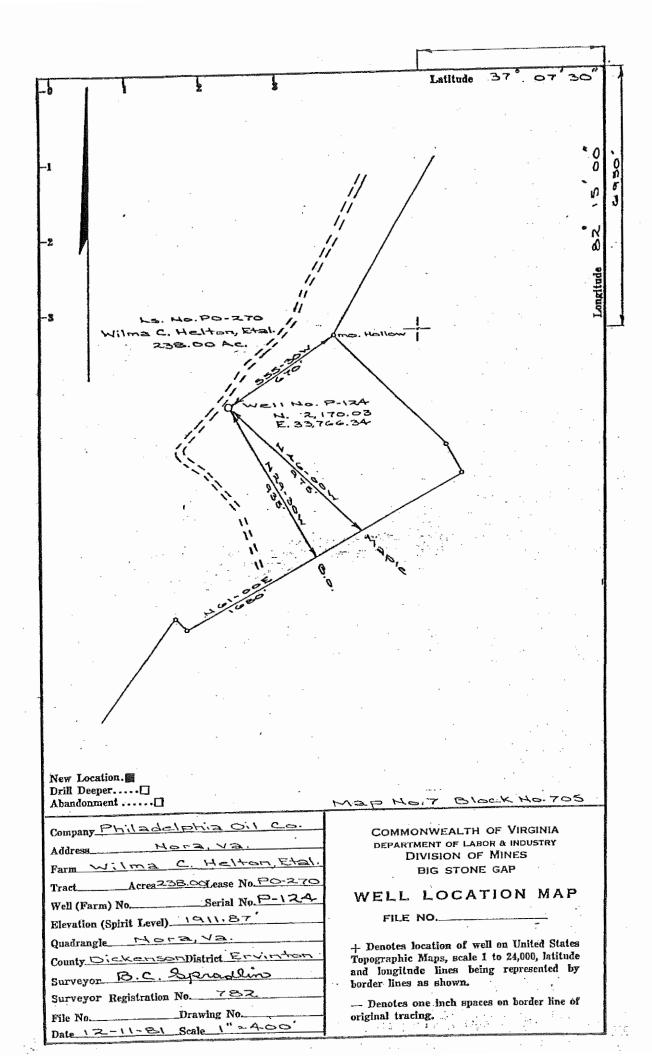
- (4) After grading is completed on the well site and pit areas all unstable areas will be sown immediately to prevent erosion (Pit 100' x 75') (Auxillary Pit 100' x 75') Well site (100' x 200')
- (5) Upon completion of the well and pipeline operations, pit areas will be filled and covered with adequate top soil and entire well site will be graded and seeded with approximately 250 pounds of Ryegrass and KY 31 Fescue and ten bales of straw is to be used as mulch in critical areas to prevent erosion and to stabilize the area.

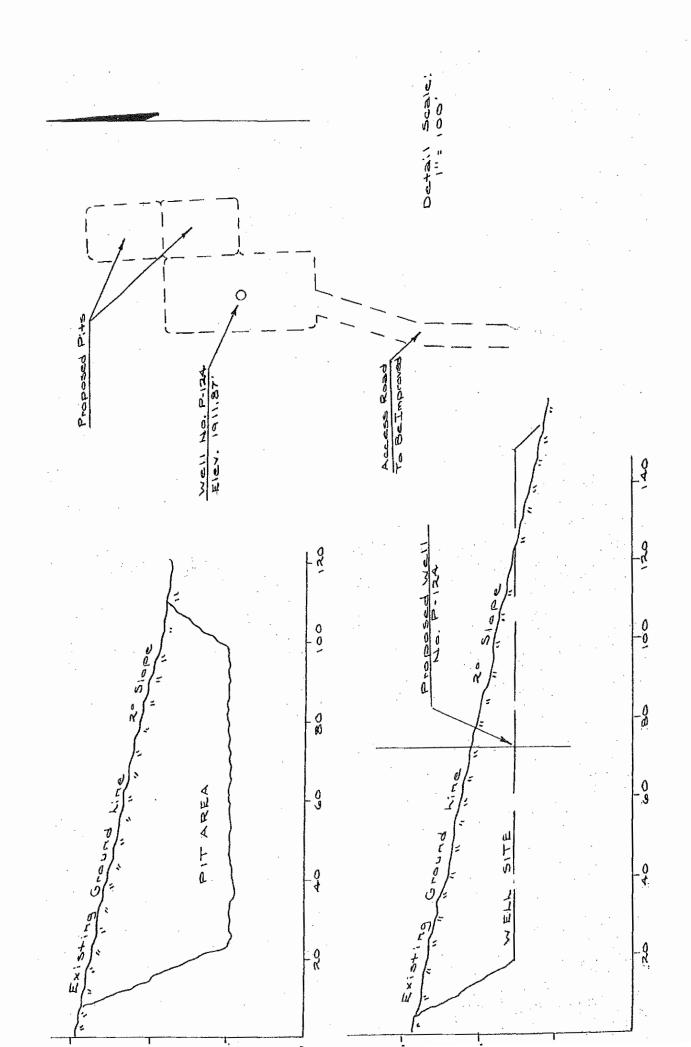
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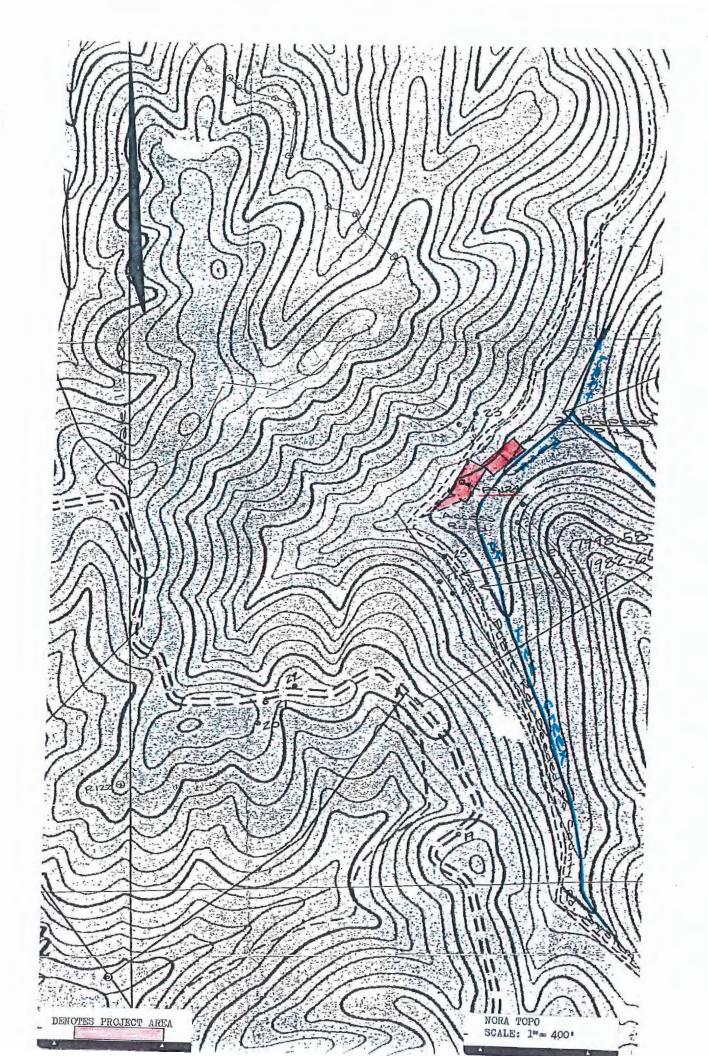
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# COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG STONE GAP, VIRGINIA 24219

# NOTICE OF INTENTION TO (DRILL) (REDRILL) (DEEPEN) OIL OR GAS WELL

(One copy of this report and three identical co- feet to the inch, and showing information requ and the 1966 Cumulative Supplement, must be copies sent by registered mail to all persons de	ired by Section 45.1–114, Code of V submitted to the Division of Mines an	irginia, 1950, 1954 d Quarries, and
	Box 431	
TO: Division of Mines and Quarties	Prestonsburg, KY 41653	
Drawer V	Place	
Big Stone Gap, Virginia 24219	December 28	1981
	Date	Free Strategy (Free S
Gentlemen:		
The undersigned proposes to begin as soan as a		
and Quarries, to drill, HEARH EXMANDED (strike		
	acres, in the Ervinton	District of
	oving the fee title thereto, or as the , made by Wilma C. Helton	case may be, under
grant or lease dated July 26, 1974 to Philadelphia Oil Company and record	ed on the 25 day of Augus	
in the office of the County Clerk for soid Count		
The proposed location of the well, as shown on		576
(feet/miles) West of 82°15	ine differed plot of map, is about 3	and
	SX South of 37007'30"	unu .
6500' East of Counts Cemetary - 4700'		
If is proposed to drill this well to a depth of abo	ut coop foot Samples or cutting	therefrom will
ar will not be available for examination by a me	ambar of the swift of the Virginia Geo	logical Survey
Cuttings will or will not be furnished the Survey		logical solvey r
comings will of will not be formshed the solvey	•	
A plat or map, in triplicate, on a scale not small cation of the well and other information, require and the 1966 Cumulative Supplement is attached drill, redrill or deepen the aforementioned well Section 45.1–114, above cited, as follows (list additional space is required):	ed in Section 45, I–114, Code of Virg I hereto. Copies of the plot and notic have been sent to all interested perso	inia, 1950, 1954 ce of intention to ons as required by
1. Clinchfield Coal Company, Dante,	Virginia 24237 (Coal owner)	
2,		
3.		
4		
5.		
6		
	Very truly yours	,
Signature of officer or certifying party:	Philadelphia Oil Company Drilling Company or C	
10 WHager	•	perator
Náme	Box 431	
B. D. Hager, Operating Manager	Street Address	
Tirke	Prestonsburg, KY 41653	
	City or Town and S	tate

# Buitable Resources Exploration A Division of Fruitable Resources Energy Come

Operations Kese: Persols #1 462

(Gals.)

Department of Mines, Minerals and Energy Division of Gas and CHI



Department of Mines, Minerals and Inergy Division of Gas and Oil P. O. Box 1416 Abingdon, Virginia 24210 703/676-5423



### APPLICATION FOR DISPOSAL OF PIT OR PRODUCED VIMILS

A. X Approved to transport and dispose of pit or produced fluids through an approved	qfabaser :	rize, which e	recebes bis o
produced fluids from gas and oil operations.			
B Approval for a one time application of pit fluids on the permitted site.			- seggi dagan

For applications under A. the permittee is required to subsit the following with this application.

- 1. Submit the appropriate federal, state, and/or local permit number of the facility the permittee is proposing to dispose of the fluids under.
- 2. Attach a copy of the appropriate sections of the permit, which allows acceptance of fluid waste from the gas and oil operations.
- 3. Submit the total estimated volume of fluid to be transported.

### ATTACHED 582

Pursuant to VR 480-05-27.1, P 1.42, the undersigned permittee requests:

For applications under B, the permittee must complete the following information with the appropriate documentation with this application.

Date Fit was First Used	Estimated Volume of Pir Fluid
Description of the Constituents of th	e fluid placed in Pir
. Analysis of the PAT Fluid:	
Analysis	Standard Livits
Дq	6-9 Standard Unit
OLL and Grease	< 15 mg/l
Irca	< 7 mg/l
Kanganess	< 4 mg/l
Acidity	< alkalizity
Alkalnity	> acidity
Chloridae	5,000 mg/1 *

\* For chlorides above 5,000 mg/l, the application will be reviewed to determine whether a permit would be required from the Virginia Water Control Board.

SAE of 8-12 w

The Sodium Absorption Rate shall be determined on the soils to which the liquid is to be applied.

l of 2

Porm DGO-GO-16 Rev 9/91

Chlorides

Sodium Balance

Banamans of Mass	, Minerals and Energy		•	ensk enoisarad	Local trabala D	ivision of sources therey Co
Division of Gas and		1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 to		erate 1: 46		
DO-00200 AT ADD 0770	. 41.		•	as made as a manufacture		
C. Verificaci	on of Analysis:		, .			
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	ccupied Dwelling	/ For 4P			<u>μιωπ</u>	
	eage of Proposed Applic	cation Area	Average slo	pe of the prop	osed area of land	application
					, projection	
E. Location a	nd Design Map:					
Provide a	Land Application:				-	
· ·	apporting calculations extion of the pit fluid	_				·
	Merference to the grou					
	a concerning the protec		-	••	•	
		•				
CERTIFICATION:						
	med sublicant or betwic				urs were brebared	i under my direction
The information subs	mitted is, to the best			·		,
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		(Sigr	iacura)	year .	· very	
	•	•	Title) Opera	tions Manage	r - Va. /	
			(Daza) Octobe			
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1						

(FOR OFFICE USE ONLY:

(Approved Denied Co. A. Chymn)
(State Gas and 011 Inspector

### ATTACHMENT TO

# APPLICATION FOR DISPOSAL OF PIT OR PRODUCED FLUIDS

## PART A Submittal:

- 1. The coalbed methane and/or convention wells and/or pipeline fluids will be disposed of utilizing UIC permitted wells P-148-WD, KYI-0507, KYI-0508 and KYI-0222.
- 2. The appropriate sections of UIC disposal permits for P-148-WD Well, KYI-0507 Well, KYI-0508, Well and the Magnum KYI-0222 Well are all separately filed with the Division of Gas and Oil in Abingdon, VA.
- 3. Equitable Resources Exploration will report produced fluid volumes in the monthly VA DGO production report. The volumes os fluid hauled will be tracked by Equitable Resources Exploration as required by DGO, and the tracking records will be available to DGO upon request.

CBM - Nora Field DPT/ 9-27-93 Ravisad 6/16/1989 Form DCO-IR

# CCCLONUEALTH OF VIRGINIA DEPARTMENT OF MINES, MINERALS AND ENERGY DIVISION OF GAS AND OIL P. O. BOX 1416 ABINGDON, VIRGINIA 24210



INSPECTION REPORT

COMPANY EKEX	PILE / DI- 199
WELL P - 124	TIME 335 DATE 9 14/9
OUNTY DICKENSON	INSPECTOR MJS
SITE INSPECTION	. Type of inspection
PRE-PERMIT:	PRE-APPLICATION 0
PLAN ACCEPTABLE LOCATION CORRECT DRAINAGE CONTROLLED SEDIMENTATION CONTROLLED	PRE-PERHIT 1
COMMENTS	DRILLING 2
	COMPLETION 3
SITE CONDITION:	PRODUCING 4
DRAINAGE OC TEMPORARY SEEDING SEEDED C	PLUGGED 5
DRAINAGE CONTROL & BACKFILLED V TRASE ~~	- AERIAL 6
SEDIMENT CONTROL SUBSIDENCE SIGN	COMPLAINT 7
COMMENTS ROLLAIN OLG	SHUT-IN 8
WITTERIS	CONSTRUCTION 9
COUNTERTAIL	OTHER 10
IT CONDITION:  APPROXIMATE SIZE PLASTIC LINED BACKFILLED STABILITY C	
COMMENTS	
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OAD COMDITION:  CRADE: STEEP HODERATE FLAT CRAVEL 6/	PIPELINE PRE-PERMIT 14
	PRE-PERHIT 14 CONSTRUCTION 15
COMMENTS	OPERATION 15
PELINE CONDITION:	RE-INSPECTION 17
SIZE SURFACE BURIED LENGTH (INSPECTED)	
	COMPLAINT 18
CONMENTS	ACTION OF INSPECTOR
	NONE 0
	SITE OK
RIG AND WELL INSPECTION	
PE: ROTARY CABLE TOOL WORKOYER COMPANY O O O	OPERATOR INFORMED OF
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	CONTACT COMPLAINANT 2
	RE-INSPECTION NECESSARY 3
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CTION OR RECULATION CITED	PREQUENCY 4
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	COMMENTS ON BACK
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7/1:1// / ***	50 CHARACTERS)
/ Willow / The	•
INSPECTOR /	ON COMPUTER

# POOR QUALITY

ORIGINAL(S) FOLLOW

# THIS IS THE BEST COPY AVAILABLE

VCE DOCUMENT CONVERSION CENTER

# INSPECTION REPORT

COMPANY : EREX	FILE NUMBER DI-	
WELL NAME/NUMBER P- 124	TIME 12 SO P.M	) DATE 3-30-89
COUNTY DICKENSON	INSPECTOR	
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# **EQUITABLE RESOURCES EXPLORATION**

A Division of EQUITABLE RESOURCES ENERGY COMPANY

P. O. Box 313 Nora, VA 24272

October 15, 1993

B. T. Fulmer Oil and Gas Inspector Division of Gas and Oil P.O. Box 1416 Abingdon, VA 24210

RE: DGO Permit No. 462 (P-124)

Dear Mr. Fulmer:

Enclosed please find an application for produced fluid disposal for the above Equitable Resources Exploration operated conventional well located in the Nora Field.

Should you have any questions, please feel free to contact me at Phone # 1-703-835-9134.

Sincerely,

Douglas P. Terry/

Operations Manager-VA

DIVISION OF

Certified RRR Enclosures

CC: Well Files

Lee Talbott

Don Hall

PC: CBM-haul.1

APPROVED
BY 13. J. Infram
Virginia Gas and Oil Inspector
DATE 11/1/93



Address Correspondence to: P. O. Box 313 Zip Code 24272

December 28, 1981

Commonwealth of Virginia Division of Mines and Quarries Department of Labor and Industry Big Stone Gap, Virginia 24219

> Re: Permit to Drill Well No. P-124, Philadelphia Oil Company, Lease No. 270

Gentlemen:

We submit herewith Philadelphia Oil Company's application for permit to drill a well for oil and/or gas upon the tract of land described therein.

This well will be drilled by Union Drilling Company, P.O. Brawer No. 40, Buckhannon, West Virginia 26201.

Agent's Check No. 245 in the amount of One Hundred Dollars (\$100.00), payable to Treasurer of Virginia is attached, said sum being payment of well permit fee.

Yours very truly,

Bo Hagu B. D. Hager

Operating Manager

BDH/gjw

Enclosures

CC: Mr. J. E. Nypaver, Vice President of Operations The Pittston Company Lebanon, Virginia 24266

> Mr. Ray S. Dixon, Property Manager Clinchfield Coal Company Dante, Virginia 24237

Mr. E. B. Jenkins Mr. James G. Tilton Mr. Don C. Hall



Address Correspondence to: P. O. Box 313 Zip Code 24272

July 25, 1984

Mr. Milford Stern Oil and Gas Section 205 West Main Street Abingdon, Virginia 24210

Dear Milford:

Beginning today Philadelphia Oil Company plans to begin producing the Berea formation of the following wells:

P-20	P-88	P-134	P-151
P-21	P-106	P-135	P-166
P-22	P-122	P-136	
P-23	P-123	P-140	
P-63	P-124	P-143	
P-64	P-132	P-145	
P-87	P-133		

Yours very truly,

DON C. HALL Field Agent

CC: Bob Hager
E. B. Jenkins
Ed Minns
Chuck Stewart
John Billips
Brint Camp
Charles Martin



# IIIPITTSTON Clinchfield

Pittston Coal Group Clinchfield Coal Company P.O. Box 4000 Lebanon, Virginia 24266

An Affiliate of The Pittston Company

January 20, 1982

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. B. T. Fulmer
State Oil and Gas Inspector
Division of Mines and Quarries
Big Stone Gap, Virginia 24219

Re: Permit to Drill Well No. P-124, Philadelphia Oil Company, Lease No. 270

Dear Mr. Fulmer:

Our company is in receipt of a copy of a letter addressed to your division from Mr. B. D. Hager, Operating Manager of Philadelphia Oil Company, enclosing the permit application on the above well. I am advised that the proposed well is located on surface property on which Clinchfield Coal Company has an outstanding mining permit from the Division of Mined Land Reclamation and that such well is proposed within the bonded area. Therefore, we must object to the well application until satisfactory arrangements are made to insure that our company will not incur any additional environmental liabilities resulting from the placement of a well within the bonded area.

Sincerely yours,

X male

CLINCHFIELD COAL COMPAN

Donald R. Johnson

Senior Assistant General Counsel

DRJ:wf

cc: Mr. B. D. Hager

# THIS PERMIT IS NOT TRANSFERABLE

		Department of L	lth of Virginia abor and Industry OF MINES	
	PE		Gap, Virginia L_FOR OIL OR GAS	. **
•	This is to certi	fy that on this da	te a permit to drill for o	il or gas
was issued to	Philade	lphia Oil Comp	any	
	fice is at _ Box 4.			
for the operat	ion of Gas W	ell(Wilma Helt	on etal.)	
located at	Nora Quadra	ngle	County of	Dickenson
	THIS PE		IN COMPLIANCE WI	
	TITLE 45, CHAI	PTER 8; CODE O	F VIRGINIA 1950 AS A	MENDED
penaltics as prescribe	or oil or gas within the State in Title 45, Chapter 8, shall constitute a separate	Article 7 of the Code of	permit as provided berein shall t Virginia. Each day any person dri	oe guilty of a misdemeanor or or lls any oil or gas well without f
	•	•	DIVISION	OF MINES
	13th	day	By T. Fulmer State Oil & Gas In	, Chi
Issued this		19 <b>82</b>	تسامسا سس	

FORM 16 APPENDIX A, SHEET 1, (OBVERSE) API WELL NO. 45 - 051 - 20866

State County Permit
Date: September 11, 1986 Operator's Well Name W. F. Grizzle

# REPORT OF COMPLETION OF WELL WORK

	IF DRIL	ING, RED	RILLING, O	R DEEPENING	3 IS I	INVOLVED		
DRILLING (	ንጉእካባ <b>ር እ</b> ረማሃነው	Union	Drilling,	Tuc				
ADDRESS	WATHACTOR_				F.T.Y.	26001	<del></del>	
TELEPHONE			<u>Drawer 40.</u> 72-4610	, Buckhanno	on, WV	26201		
			4010		· · · · · · · · · · · · · · · · · · ·	<del></del>	· · · · · ·	
GEOLOGICAL	'TARGET' FO	RMA'TION	Berea					
DEPTH OF C			5260	FEE	5T	· · · · · · · · · · · · · · · · · · ·	<del></del>	
DATE DRILL	ING COMMEN	ICED	6/6/86					
DATE DRILL			6/19/86					
DRILLING R	IG: ROTAR	Y X	CABLE :	100F	7			
•								
GEOLOGICAL		Depth p Botton	Thicknes	ss				
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riesu mace	L 75, 240	J, 019, 9	27					
			•					
Salt water								
					MINIM	VG IN AR	EA	
		•		Name	XXX	NO MILKIN	RAIX KAN	
Coal Seams		530,34	927,30	2145,52				
	·	556,59	1131,34	2155,63				
	445,48	619,21	1552,56					
Oil		•		Formation				
021	•			rotmacton				
	•	÷ ,						
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	•						4	
Gas				Formation			, -	
				,				
							•	
below:	The data o	n depth o	of strata	is based on	the	source(	s) checke	સ્ત્રે
MULUIT &	XApplic	ant's own	drilling	experience	in ti	he area	•	
	Inform	ation sur	plied by t	he coal on	erato	r in the	area	
				ssession o				
•	Other	(as follo				•		
	-							

Form 16 Appendix A, Sheet 2 (Obverse) API NO. 45- 051 - 20866

# CASING AND TUBING PROGRAM

### PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes $_{\rm X}$  / No $_{\rm Z}$  / If Yes, was a coal protection string set to the red shales? Yes $_{\rm X}$  / No $_{\rm Z}$ 

-	•		•			
				P	ERFORATIONS	3
	SIZE	AOL	BOTTOM	LENGTH	FROM TO	) .
	V. 1.					
CONDUCTOR:	16"	0	19'	191		
COMBOCION.	11 3/4"	0	196 '	196'		
CASING CIRCULATED AND CEMENTED IN TO SURFACE:	8 5/8"	0 .	2203'	2203'		
COAL PROTECTION CASING SET UNDER SPECIAL RULE OF CODE OF VIRGINIA 45.1-334.B:						
OTHER CASING AND TUBING	4 1/2"	0	5204 <sup>‡</sup>	5204 ¹	5082'-5147 4572'-4597	
LEFT IN WELL;	2 3/8"	0	50651	50651	4376'-4380	

CODE OF VIRGINIA SECTION 45.1-336 OR OTHERWISE:

PACKERS OR BRIDGE PLUGS:

KIND

SIZE

SET AT

Butler-Larkin 4 1/2" X 2 3/8" 4518!

REMARKS: SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING;

# SAMPLES AND CUTTINGS

WILL	X	* * * * * * * * * * * * * * * * * * * *	BE AVAILABLE FOR EXAMINATION BY A MEMDER OF THE
_			VIRGINIA DIVISION OF MINERAL RESOURCES
WILL	X	MILL NOT	BE FURNISHED THE VIRGINIA DIVISION OF MINERAL
			RESOURCES UPON REQUEST
MILL		MILL NOT X	REQUIRE SACKS TO BE FURNISHED BY THE VIRGINIA
		<del>, , , , , , , , , , , , , , , , , , , </del>	DIVISION OF MINERAL RESOURCES.

Form 16 Appendix A, Sheet 1 (Reverse) Continued from Obverse side

### OTHER GENERAL INFORMATION

An electric log survey was \_\_\_/ was not \_\_/ conducted pursuant to Code of Virginia Section 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was  $\frac{X}{}$  was not  $\frac{1}{}$  run for other purposes. This survey did  $\frac{1}{}$  did not  $\frac{1}{}$  disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia Section 45.1-333.B.3.

Deviation surveys were  $\underline{x}$  / were not \_\_ / required under Code of Virginia Section 45.1-333.C "to the bottom of the lowest published coal seam depth."

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was  $\_/$  was not  $_{\rm X}$  / required under Code of Virginia Section 45.1-333.C.

Note: If a continuous directional survey was required, the survey results are attached.

# CHANGES IN THE PERMITTED WELL WORK

The well operator did / did not  $^{\rm X}$  / make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

Note: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

# APPENDIX TO REPORT OF COMPLETION OF WELL WORK ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOVERY C	OF OTP OK T	ND1C41.10	NS THEREC	) F.	
Indicated p Gravity and			re stimul	ation	BOD
DISCOVERY C	F GAS OR I	NDICATIO	NS THEREC	DE*	
Indicated p Rock pressu				ation	0 MCFD
RECORD OF S	MOITAJUMIT				
Perkorated_ Breakdown	ea   with 75 0   336 gals:   5082-5147   1600 psig	) Foam us 20% aci # Po . Avg. I	Forma ing 90,00 d and 480 erfs. 29 njection	tion 00# sand, 1 0 Bbls. flus Perf. Si 2600 psig. Min. S.I.E	.ze <u>.50</u>
Perforated_ Breakdown	4572-4597 1900 psiq	# Po	erfs. <u>15</u> njection1	Perl.Si 870 psiq.	ze50
Kone 3: Big stimualted and 224 Bb Perforated Breakdown wg.I.R. 14	Lime with 2000 ls. fluid. 4376-4380 2500 psig BPM Init.	gals. 2# Po . Avg. In	Fo 8% acid a erfs. 9 njection] 00 psig l	rwation nd 77,000 S Perf. Si 975 psig.	ze50 P psig
Sone 1: _	BOD	MCFD		Rock Pressure	
Cone 2:	<del></del>	-	,		
Tane 3:		11	6	700	48
inal produc	ction if ga	as zones	are comin	ngled: 73	0MCFD
6 500	ing togtod	600	peia	48 h	ours tested

	State	County	Permit
Dato:	September 11,	1986	
Operati	or's Well W. F. Grizzle		20 1

VIRGINIA OIL AND GAS INSPECTOR 205 W. MAIN STREET ABINGDON, VA 24210 703-628-8115

# REPORT OF COMPLETION OF WELL WORK

		KLFORT O	r confirmation	or name noral	
Oil and Gas type(s) of	act, well w	the undersions ork specific	gned well ope ed below on t	Regulations under the Virginia erator reports completion of the the referenced well in Ervinton on 7 day, 8 month,	
WELL 7		Oil/ Oisposal Storage	Gas <u>X</u> /Enh _/ If "Gas", /	nanced recovery / Waste Production X / Underground	
WELL WO	ORK :	Exempt by Cand gas constill X / Plug off old	servation law Deepen/ d formation	7: Jes/ no/ Redrill/ Stimulate/ _/ Perforate new formation/ Other physical change in well	
		<u>-</u>		<del></del>	
		k was done 11 work inve		he Appendix(es) applicable to	
<i>~</i> ~እነውሃ ኮሮኒቹኮ ፤ የ	יניהיט כ	TAPETE LINITARD	CODE OF VIRG	INIA SECTION 45.1-332.	
ECNF IDENT LA	LLIII S	TATUS UNDER	CODE OF VING	INTA DECITED 45.1 DDL.	-
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	tory	well as def	ined in Code	of Virginia Section 45.1-288.21.	
•					
					*
•				Philadelphia Oil Company	
			BY	Brint Camp	
_			ITS	District Geologist	27661
			ADDRESS	1101 N. Eastman Rd., Kingsport, TN	57004
			TELEPHONE	615-246-4332	

FORM 2 SHEET 1 (OBVERSE) (FOR OFFICE API Well No. 45 - - (USE ONLY: State County Permit

Date:

1 - 23

19 8.6

Operator's

Well No.

P-201

VIRGINIA OIL AND GAS INSPECTOR DEPARTMENT OF LABOR AND INDUSTRY OIL AND GAS Section 205 W. Main Street Abingdon, Virginia 24210 Phone 703 628-8115

NOTICE AND APPLICATION FOR A WELL WORK PERM

TO: ALL PERSONS LISTED
ON THE REVERSE HEREOF

Take notice that, pursuant to Code of Virginia § 45.1-313, the undersigned well operator proposes to file or has filed this Notice and Application for a Well Work Permit with the Virginia Oil and Gas Inspector under Code of Virginia § 45.1-311, with respect to a well on the tract of 149.36 acres, more or less, in Ervinton

District, Dickenson County, Virginia.

Attached is a copy of the well plat required to be filed with this Notice and Application. The Notice and Application show the well work that is to be done, and the well plat shows the location (or proposed location) of the well.

If the proposed well work is to drill a well, an operations plan is also attached. It shows the intended method of spoil placement, and contains a stabilization and drainage plan, including a map of the project area indicating the area to be disturbed. The drainage and stabilization plan meets the requirements of the current Virginia Erosion and Sediment Control Handbook adopted by the Virginia Soil and Water Conservation Commission pursuant to Code of Virginia § 21-89.4.

Under Code of Virginia  $\S$  45.1-313, you have the right to file objections to the proposed well work within 15 days after the day you receive this notice. Objections must be filed with--

Virginia 011 and Gas Inspector Department of Labor and Industry Oil and Gas Section 205 W. Main Street Abingdon, Virginia 24210

WELL OPERATOR	Philadelphia Oil Company	DESIGNATED AGENT	Charles Martin
	1101 N. Eastman Road		Box 313
Address Telephone	Kingsport, TN 37664 615-246-4332	Address Telephone	Nora, VA 24272 703-835-9134

TODA O				
FORM 2 APPENDIX A (OBVERSE)	(FOR OFFICE (USE ONLY:	API Well No		nty Permit
	` <del></del>	Date: 1		, 1986
		<del>, , . , . , . , . , . , . , . , . </del>		·
		Operator's Well No	P-201	
APPENDIX TO NOTICE AND APPLICATION IF THE WELL WORK INVOLVES DRILLING,				
Note: The data in this Appendix ar on Form 18 ("Report of Complet			ata must be	submitted
DRILLING CONTRACTOR (IF KNOWN)				
Address Telephone				
GEOLOGICAL TARGET FORMATION BET	rea Sand		,	
DEPTH OF COMPLETED WELL 5119	_ feet (actual	/ estimate	d_X/)	
DRILLING RIG Rotary X / Cable too	01/			
GEOLOGICAL DATA Depth Top Bottom	Thickness .			
Fresh water: 57'				
Salt water:				
			MINING 1	N AREA?
		Name	Yes No	Mined Out
Coal seams: 1058, 1062,			х	No
		Name		
Oil and gas: 4392' 5141'	Kee Dev	ner onian Shale		
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# CASING AND TUBING PROGRAM

# PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? YesX / NoX / If "Yes", will a coal protection string be set to the red shales? YesX / NoX /

PROGRAM DETAILS

## Conductor

11 3/4" 30' Casing circulated and cemented in to the surface:

8 5/8" 2111' Cement to surface

Coal protection casing set under the special rule of Code of Virginia § 45.1-334.B:

# Other casing and tubing left in the well:

 $4\ 1/2$ " production casing 5119 cemented through productive formation 2" production string 4959

Other casing used in drilling but not left in the well:

N/A

FORM 2 SHEET 2.(O	BVERSE)	(FOR OFFICE (USE ONLY:	API Well No.	State County Permit
			Date: .1-	-23, 1986
			Operator's Well No	P-201
GENERAL	DESCRIPTION			
WELL TYPE:	Oil / Gas x/ Enl If "Gas", Production	nanced recovery x/ Undergrou	y/ Waste o	lisposal/ _/
	Exempt by Code of Vingeneral oil and gas of If "No" submit map shand boundary Exploratory well: Ye	conservation la lowing unit bou	w: Yes x /	No/ distances between wells
LOCATION:	Quadrangle: Nora, V. District: Ervinton 9260 Ft. South of Lat	itude: 37007130	Watershed: County: " 2320 Ft Wes	Breeden Branch of Fryingpan Dickenson t of Longitude:82015'00"
gas or othe tract / document, i Commission at page 431	dated July 25 , f recorded, is recorde of Dickenson  permit is requested as	e location und 1972, to the d in the offic County, s follows:	er a deed/ undersigned w e of the Cler Virginia, in	lease $_{\rm X}$ / other con- ell operator from which
P: P:	rill × / Deepen / lug off old formation lug x / Replug / ther physical change in	/ Perforate	new formation	1 x /
	ne well work is planned to ther attachments.	l as shown in t	his Notice ar	nd Application and
	OTHER IN	CORMATION AND S	SUBMISSIONS	
PERMIT FEE				
•	nder Code of Virginia amount of \$100.00, pa			
WELL PLAT				
	der Code of Virginia \$ plat (Form 6) accompan			checked below applies
xTh	e plat is new, under C	ode of Virgini	a § 45.1-312.	C.1.
su	e plat is a copy of an bmitted on or after Ju cessary, under Code of	ly I, 1982. T	his copy has	

# OTHER INFORMATION AND SUBMISSIONS (continued)

WELL OPERATOR'S BOND
Under Code of Virginia § 45.1-311.D, the statement checked below applies to the well operator's bond:
A bond (Form 3 or Form 4) for this single well is submitted herewith.
A bond for this single well has heretofore been accepted in connection with a well work application filed, 19
Under Code of Virginia § 45.1-311.D.2, a blanket bond (Form 3 or Form 4) is submitted herewith, for all of applicant's wells. The amount was cleared by the Inspector, subject to final approval hereby requested.
Winder Code of Virginia § 45.1-311.D.2, a blanket bond for all of applicant's wells has heretofore been accepted by the Inspector on or about February 4 , 19 83.
OPERATIONS PLAN
Under Code of Virginia § 45.1-311.E, if this application is for a well work permit to drill, an operations plan accompanies the application.
REQUEST FOR PERMIT IN LESS THAN 15 DAYS
Applicant does / does not $_{\rm X}$ / request a permit before the end of the 15-day notice provision under Code of Virginia § 45.1-313.E.2.
Applicant:  Philadelphia Oil Company  By H.E. Gardner  Its Vice President & General Manager
VERIFICATION
COUNTY OF Lection:
On this Dord day of January, 1986, personally before me, a Notary Public in and for the County and State aforesaid, appeared to January.  being first duly sworn, did depose and say that he is Via Cresident & State Manager.
of Phanalphia Oil Company. , the applicant in the fore- going Notice and Application for a Well Work Permit and related Appendix (if any) and other accompanying documents; that he executed the same on behalf of the applicant, and was authorized to do so; and that the information set forth therein is true and correct to the best of his knowledge and belief.
Land Warm
Notary Public

Philadelphia Oil Company 1101 N. Eastman Rd. Kingsport, TN 37664

# Operations Plan - Well No. P-201

(1) PHILADELPHIA OIL COMPANY proposes to drill Well No. P-201 situated on Breeden Branch of Fryingpan Creek in Dickenson County, Virginia. A rotary rig will be used to drill this well requiring approximately fourteen (14) days to drill to a total depth. Approximately thirty (30) days after the well has been drilled cable tool spudder will be moved onto the location to fracture and complete the well. The casing program is as follows:

Casing Size	Depth	Remarks
11-3/4" 8-5/8"	30' 2111'	Case off fresh water. Set in top of Red Rock and cemented to surface to contain all possible formation water
4-1/2"	5119'	and protect all coal seams.  Production casing to be set at total depth and cemented through gas bearing formations.
2"	4959 <b>'</b>	Production string.

- (2) Site preparation is expected to begin May 1, 1986, and final well completion is expected August 5, 1986. Reclamation is expected to be completed by October 10, 1986.
- (3) Soils are of the loam to silt type, medium depth, with no erosion problems anticipated. Timber is of the Hickory-Poplar forest type with all ages class stand predominate in a small portion of the project area. The well site will be constructed on a bench with an approximate 5° slope and the pit area will be constructed on a bench with an approximate 5° slope. An existing road will be improved to gain access to the drill site. Pipe culverts will be installed along the access road to provide proper drainage. Cut and fill areas along the constructed road will be sown with Ky. 31 Fescue and Ryegrass to stabalize the affected areas and prevent erosion. The entire project area comprising of 1.49 acres.
- (4) Any vegatation in the well site and pit areas will be cleared after grading operations are complete the fill areas will be sown immediately to prevent erosion. (Pit  $100 \times 75$ ) (Auxillary Pit  $100 \times 75$ ) (Well Site  $100 \times 200$ ).
- (5) Upon completion of well and pipeline operations pit areas will be filled and covered with adequate top soil and entire project area will be graded and seeded with approximately 200 pounds of Ryegrass, Clover and Ky. 31 Fescue, and six bales of straw to be used as mulch in critical areas to stabalize the areas and prevent erosion.

# SUPPLEMENTAL SHEET FOR PERSONS RECEIVING OFFICIAL NOTICE OF WELL WORK APPLICATION

IF THE WELL WORK IS DRILLING, REDRILLING, DEEPENING, PLUGGING OR REPLUGGING:

Surface owner(s) at the well location site:

Tilden R. Rasnick Rt. 2, Box 169B Clintwood, VA 24228 Mozelle Steffey Clintwood, VA 24228

Marjorie Anderson Rt. 3, Box 165 Clintwood, VA 24228

Essie Stallard Rt. 2, Box 1867 Palakta, FL 32077

Surface owner (s) of neighboring tract(s) within 500 feet of the well:

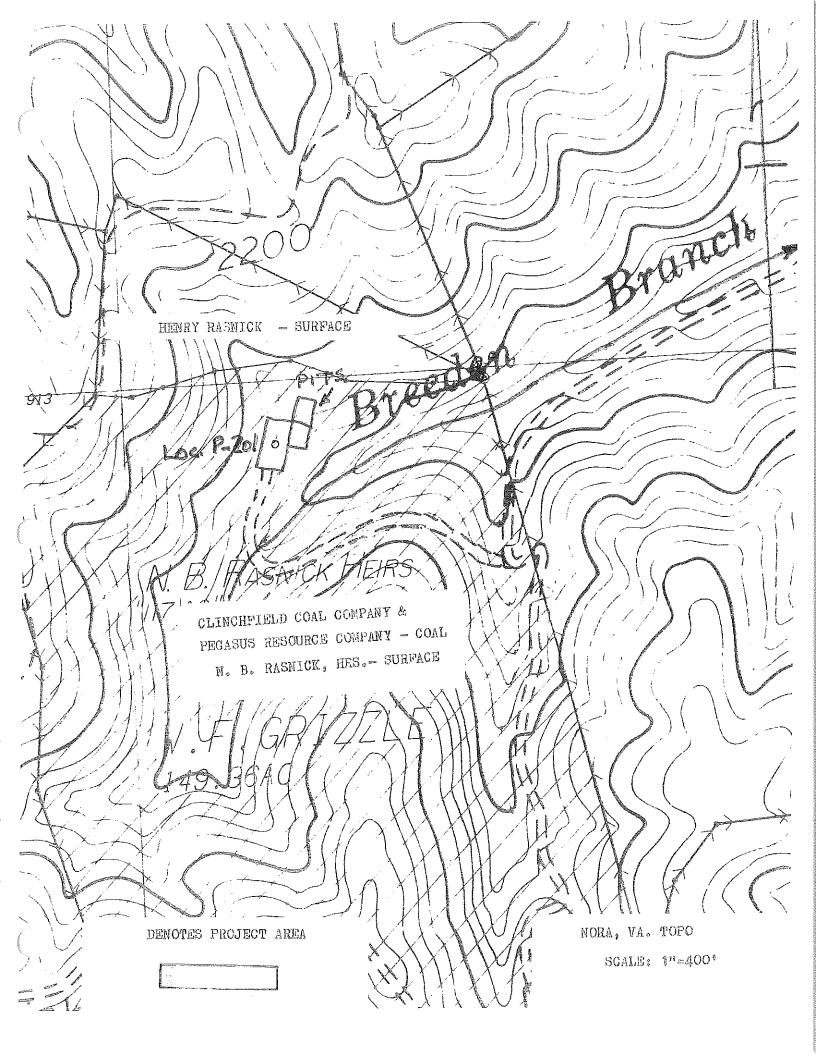
Henry Rasnick Box 372 Haysi, VA 25425

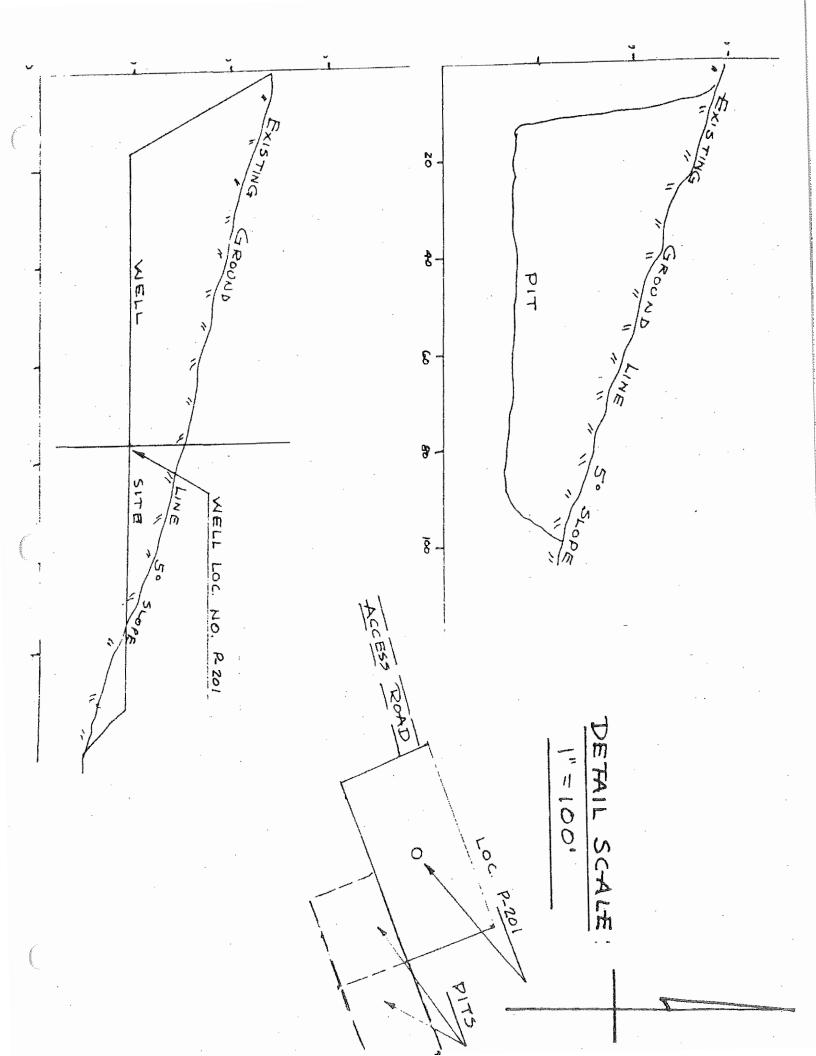
Oil and gas royalty owner(s) of the lease or drilling unit:

Pine Mountain Oil and Gas Company c/o Mr. Allen B. Kiser, Manager P.O. Box 7 Dante, VA 24237

Coal and other mineral owner(s), lease(s) and operator(s) at the well location site, and on neighboring tracts within 500 feet of the well:

Pegasus Resource Company c/o Mr. Larry Cline, Property Manager Rocky Top Development, Inc. P.O. Box 1357 Abingdon, VA 24210 Clinchfield Coal Company c/c Mr. Paul Guill, Chief Engineer P.O. Box 7 Dante, VA 24237





# **P 311** 323 077

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### PROOF OF NOTICE OF WELL WORK APPLICATION

The undersigned well operator, applicant in a Notice and Applicat	
Well Work Permit heretofore filed with the Inspector on	, 19,
respecting the well numbered above, submits the following proof of the	e statutorv
notice required by Code of Virginia \$ 45.1-313.E for the persons name	d in the Notice
and Application as entitled to notice.	•

### X Certified mail return receipt(s) for the following person(s):

Pegasus Resource Company
c/o Mr. Larry Cline, Property Manager
Rocky Top Development, Inc.
Abingdon, VA 24210
Pine Mountain Oil and Gas Company
c/o Mr. Allen B. Kiser, Manager
P.O. Box 7
Dante, VA 24237
Tilden R. Rasnick
Rt. 2, Box 169B
Clintwood, VA 24228
Mozelle Steffey
Clintwood, VA 24228

Clinchfield Coal Company c/o Mr. Paul Guill, Chief Engineer P.O. Box 7 Dante, VA 24237 Marjorie Anderson Rt. 3, Box 165 Clintwood, VA 24228

Essie Stallard Rt. 2, Box 1867 Palakta, FL 32077 Henry Rasnick Box 372 Haysi, VA 25425

Newspaper page or facsimile (or affidavit of publication) showing Notice by Publication (Form 6) for the following person(s):

WELL OPERATOR:	Philadelphia Oil Company
Address:	1101 N. Eastman Rd. Kingsport, TN 37664
Audiess.	Kingsport, In 3700-
Telephone:	(615) 246-4332

(SUBMIT SUPPLEMENTAL SHEETS IF THE SPACE ABOVE IS NOT SUFFICIENT)

Department of Mixes, Minerals and Energy Division of Gas and Oil Figurable Resources Exploration A Division of Figurable Resources Instanton Conference (P-201)



Department of Mines, Minerals and Energy Division of Gas and Oil F. O. Box 1416 Abingdon, Virginia 24210 703/676-5423



#### APPLICATION WE DISPOSAL OF PIT OR PROPERTY MATTER

Poeturae	co '	TR 480-05-22.1,	2 1.42,	the undersigned	beragrice	1slaster		
	Y	A	·				 	

A. X Approval to transport and dispose of pix or produced fluids through an approved disposal site, which accepts pix produced fluids from gas and oil operations.

B. Approval for a cas time application of pix fluids on the permitted site.

For applications under A, the permittee is required to submit the following with this applications.

- Subsit the appropriate federal, state, and/or local permit number of the facility the parmittee is proposing to dispo.
   of the fluids under.
- 2. Attach a copy of the appropriate sections of the permit, which allows acceptance of fluid waste from the gas and opporations.
- 3. Subsit the total estimated volume of fluid to be transported.

#### SEE ATTACHED

for applications under B, the permittee must complete the following information with the appropriate documentation with the application.

A. Mr Muid Characterisation:

Date Pit was First Used	Estimated Volume of	f M: Naid	(Gals.)
Description of the Constituents of the f	luid placed in Pit		

Standard Limits

3. Analysis of the Fit Fluid:

Analesis

	6-9 Standard Units
ONL and Grease	< 15 mg/l
Iros	< 7 mg/l
Hanganese	< 4 mg/L
Acidity	< alkalimity
Alkelnicy	> acidiry
Chlorides	5,000 eg/l *
Socium Balance	SAR of 8-12 ww

- \* For chlorides above 5,000 mg/l, the application will be reviewed to determine whether a permit would be required for the Virginia Mater Control Board.
- The Sodium Absorption Rate shall be determined on the soils to which the liquid is to be applied.

Form DCO-GO-16

1 of 2

Equitable Resources Explorat Division o Fruitable Resources Brenzy Department of Mines, Minerals and Energy Person #: 866 Division of Cas and Oil C. Verification of Analysis: Arresh the lab analysis and its results. Denote on the attachment the date, time, and method of collection and the of the enelysis. D. Descripcion of Application Area: Soil Personability \_\_\_\_\_ Depth to Sedrock \_\_\_\_\_ Depth to Water Table \_\_\_\_ Sail Type \_ Searest Water Supply Type: Well Spring Bearest Surface Water Courses Mearast Cecupied Dealling Average slope of the proposed area of land application Total Acresse of Proposed Application Area E. Location and Danige Maps A map we the scale of 1"- 400° showing the acronge within the permitted size to used for land application identi all surface waters, wells, springs, extural rock surrange and property lines in relation to the proposed area of application. The map shall also delinears may buffer somes. Y. Hethod of Land Application: Provide a narrative, describing the method in which you plan to land apply the pit fluids. The description include supporting calculations and other data to justify the flow rates, erosion controls and nomitoring to used the application of the pit fluids. The nextrative shall include supporting sits seasurements and other data conce the nonincerference to the groundwater within and adjacent to the land application and supporting site seasurement other data concerning the protection of the existing vegetation. CENTIFICATION: I the undersigned applicant or permittee, certify that this document and all attachments were prepared under my dire The information submitted is, to the best of my knowledge, true, accurate, and complete. (Fichs) Operations Manager - Va./ (Date) October 15, 1993 (FOR OFFICE USE ONLY: (Approved \_\_\_\_ Denied \_ (State Cas and Oil Inspector

#### ATTACHMENT TO

#### APPLICATION FOR DISPOSAL OF PIT OR PRODUCED FLUIDS

### PART A Submittal:

- 1. The coalbed methane and/or convention wells and/or pipeline fluids will be disposed of utilizing UIC permitted wells P-148-WD, KYI-0507, KYI-0508 and KYI-0222.
- 2. The appropriate sections of UIC disposal permits for P-148-WD Well, KYI-0507 Well, KYI-0508, Well and the Magnum KYI-0222 Well are all separately filed with the Division of Gas and Oil in Abingdon, VA.
- 3. Equitable Resources Exploration will report produced fluid volumes in the monthly VA DGO production report. The volumes os fluid hauled will be tracked by Equitable Resources Exploration as required by DGO, and the tracking records will be available to DGO upon request.

CBM - Nora Field DPT/ 9-27-93

### Equitable Resources Exploration

Feeds #1 875

A Division of Fourtable Resources Frenzy Comp

Department of Mines, Minerals and Inergy Division of Cas and OLL



Department of Bines, Hisarals and Therry Division of Cas and Oil P. C. Box 1416 Abingdon, Virginia 24210 703/676-5423



#### APPLICATION RE DISPOSAL OF PIT OR PREMIED HANDS

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	seed fluids through an approved dis- me the persetted site.  me following with this application. mersit number of the facility the persent, which allows acceptance of forted.  ing information with the appropriate of finite (Gals.)  Pit

- \* For obloridas above 5,000 mg/1, the application will be reviewed to determine whether a permit would be required for the Virginia Water Control Board.
- \*\* The Soding Absorption Rate shall be determined on the soils to which the liquid is to be applied.

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A Division of Equitable Resources Pressy Department of Mines, Minerals and Energy Division of Ges and Cil Personale As 875 C. Verification of Analysis: Accept the lab analysis and its results. Denote on the attachment the date, time, and method of emilection and the of the analysis. D. Description of Application Area: Soil Perseability \_\_\_\_ Depth to Redrock \_\_\_\_ Depth to Water Table \_\_\_ Soil Type \_\_\_\_ Searest Water Supply \_\_\_\_\_ Type: Well \_\_ Spring \_\_ Searest Scrizce Water Courses \_\_\_\_ Sources Occupied Dealling Average slope of the proposed area of land application Total Acresge of Proposed Application Area ¥. L. Location and Deedga Maps A map on the scale of I"- 400' showing the screege within the permitted site to used for land application identi all surface vature, wells, springs, sarural rock outcrops and property lines in relation to the proposed even o application. The map shall also delineate may befor rosses. F. Method of Land Application: Provide a narrative, describing the method in which you plan to land apply the pit fluids. The description include supporting calculations and other data to justify the flow rates, arosica controls and monitoring to used the application of the pit fluids. The nerrative shall include supporting sits seasurements and other data conce the noninterference to the groundwater within and adjectme to the land application and supporting sits neasurence other data concerning the protection of the existing vegetation. CERTIFICATION: I the undersigned applicant or permittee, certify that this document and all attachments were prepared under my dire The information submitted is, to the best of my knowledge, thrus, accurate, and complete. (Title) Operations Menager - Val (Date) October 15, 1993 (FOR OFFICE USE ONLY: (Approved (B. J. Duhru (State Cas and Oli Inspector

Equitable Resources Explorat

Form DCO-GO-16 Rev 9/91

#### ATTACHMENT TO

### APPLICATION FOR DISPOSAL OF PIT OR PRODUCED FLUIDS

### PART A Submittal:

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CBM - Nora Field DPT/ 9-27-93



O. GENE DISHNER DIRECTOR

### COMMONWEALTH of VIRGINIA

Department of Mines, Minerals, and Energy
Division of Mines
219 Wood Avenue
Big Stone, Virginia 24219-2799
(703) 523-0335
Harry D. Childress, Chief

Reply To:Oil and Gas Section P. O. Box 1416 Abingdon, Virginia 24210 Telephone: (703) 628-8115

February 3, 1986

Mr. Mike Dovel
Regional Geologist
Virginia Water Control Board
P. O. Box 888
Abingdon, VA 24210

Dear Mr. Dovel:

Enclosed please find copies of well work permit applications submitted to this office on this date from Philadelphia Oil Company for wells P-201, P-202 and P-206 and proposed for Dickenson County, Virginia.

Should you have any comments concerning these applications, please submit them to this office no later than February 13, 1986.

If you have any questions, do not hesitate to call.

Sincerely,

James A. Henderson, Jr. Virginia Oil & Gas Inspector

DJD

Encs.



O. GENE DISHNER DIRECTOR

### COMMONWEALTH of VIRGINIA

Department of Mines, Minerals, and Energy
Division of Mines
219 Wood Avenue
Big Stone, Virginia 24219-2799
(703) 523-0335

Harry D. Childress, Chief

Reply To:Oil and Gas Section P. O. Box 1416 Abingdon, Virginia 24210 Telephone: (703) 628-8116

February 18, 1986

Mr. Randell Stallard Building Inspector Drawer l Clintwood, VA 24228

Dear Mr. Stallard:

Enclosed you will please find information sheets on wells which have been issued drilling permits on this date.

Should you have any questions concerning the contents of these sheets, do not hesitate to call.

Sincerely,

James A. Henderson, Jr.

Virginia Oil & Gas Inspector

DJD

Encs.

cc: Mr. David Hancock, Petroleum Information

Mr. Charles Baker, Lonesome Pine SWCD



### COMMONWEALTH of VIRGINIA

Department of Mines, Minerals, and Energy
Division of Mines
219 Wood Avenue
Big Stone, Virginia 24219-2799
(703) 523-0335
Harry D. Childress, Chief

Reply To: Oil and Gas Section P. O. Box 1416 Abingdon, Virginia 24210 Telephone: (703) 628-8115

February 18, 1986

Mr. Don Hall Philadelphia Oil Company P. O. Box 313 Nora, VA 24272

Dear Don:

Enclosed please find permits numbered 866, 867 and 868 for wells P-201, P-202 and P-206, respectively.

These permits are being issued with the following conditions:

- Only potable water shall be used in the drilling operations until the water protection string is properly cemented
- All pits shall be lined with a material of sufficient size and strength to contain all expected fluids

If you should have any questions, do not hesitate to call.

Sincerely,

James A. Henderson, Jr.

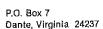
Virginia Oil & Gas Inspector

DJD

Encs.

cc: PECO, Kingsport, Tennessee

## PINE MOUNTAIN Oil and Gas Company





A Division Of The Pittston Company

703-495-8700

January 21, 1986

Mr. B. C. Spradlin Manager of Plans and Surveys Kentucky-West Virginia Gas Company Box 431 Prestonsburg, Kentucky 41653

Re.: Proposed Location of Gas Well No. P-201

Dear Mr. Spradlin:

The above well location has been reviewed regarding coal mining and production as provided in the lease.

Please be advised that the location has been approved as proposed in your letter of January 15, 1986, provided the well is drilled within twenty-four (24) months from today's date. Consider this approval withdrawn if the well is not drilled within this time.

Sincerely,

allen B. Kiser RB

Allen B. Kiser Manager of Operations Pine Mountain Oil and Gas Company

ABK:sj

c: Paul Guill Larry Cline Don Hall

### 22 December 1986

Mr. Milfred Stern Assistant Oil and Gas Inspector P. O. Box 144 Abingdon, Virginia 24210

Re: Tilden B. Rasnick, et al - Dickenson County, Virginia Philadelphia Well No. 201

Dear Milfred:

Thanks very much for your time today in explaining the situation concerning the access in to the well. My clients would be very willing to provide the old Clinchfield access in and to the well, and sign and execute whatever documents are necessary; however, they have objected to the arbitrary treatment, as well as taking a completely different area in and to the well.

I understand you will advise me next week; if I do not hear from you by Tuesday or so, then I will call you.

Again, thanks very much for your help.

All\_best personal regards,

w. r. McC 11

WRMcC: bh



PHILADELPHIA OIL COMPANY 1101 N. Eastman Rd. Kingsport, TN 37664



Oil and Gas Inspector Division of Mines & Quarries Oil and Gas Section P.O. Box 1416 Abingdon, VA 24210

> Re: Permit to Drill Well No. P-201 Philadelphia Oil Company Lease No. PO-148 (T-296)

Gentlemen:

We submit herewith Philadelphia Oil Company's application for permit to drill a well for oil and/or gas upon the tract of land described therein.

Agent's Check No. 362 in the amount of One Hundred Dollars (\$100.00), payable to Treasurer of Virginia is attached, said sum being payment of well permit fee.

Yours very truly,

H. E. Gardner, Vice President and General Manager

HEG/gjw Enclosures

cc: Mr. Don C. Hall

Mr. Brint Camp



### EQUITABLE RESOURCES EXPLORATION

A Division of EQUITABLE RESOURCES ENERGY COMPANY

P. O. Box 313 Nora, VA 24272

October 15, 1993



B. T. Fulmer Oil and Gas Inspector Division of Gas and Oil P.O. Box 1416 Abingdon, VA 24210

DGO Permit No. 866 (P-201) RE:

Dear Mr. Fulmer:

Enclosed please find an application for produced fluid disposal for the above Equitable Resources Exploration operated conventional well located in the Nora Field.

Should you have any questions, please feel free to contact me at Phone # 1-703-835-9134.

Sincerely,

Douglas P. Terry

Operations Manager-VA

Certified RRR Enclosures

Well Files CC:

Lee Talbott

Don Hall

PC: CBM-haul.1



### EQUITABLE RESOURCES EXPLORATION

A Division of EQUITABLE RESOURCES ENERGY COMPANY

P. O. Box 313 Nora, VA 24272

October 18, 1993

B. T. Fulmer Oil and Gas Inspector Division of Gas and Oil P.O. Box 1416 Abingdon, VA 24210



RE: DGO Permit No. 875 (P-216)

Dear Mr. Fulmer:

Enclosed please find an application for produced fluid disposal for the above Equitable Resources Exploration operated conventional well located in the Nora Field.

Should you have any questions, please feel free to contact me at Phone # 1-703-835-9134.

Sincerely,

Douglas P. Terry Operations Manager-VA

Certified RRR Enclosures

CC: Well Files

Lee Talbott Don Hall

PC: CBM-haul.1

APPROVED

DATE 1/1/93

### ABINGDON, VIRGINIA 24210

INSPECTION REPORT

COMPANY EXCX	FILE 1 01 -266
WELL P-201	TIME 3/5 DATE 9-4
COUNTY O!	TIME 3/5 DATE 9-4 INSPECTOR M JS
SITE INSPECTION	. Type of Inspection
	PRE-APPLICATION 0
PRE-PERHIT:	
PLAN ACCEPTABLE LOCATION CORRECT DRAINAGE CONTROLLED SEDIMENTATION CO	DRILLING 2
COMMENTS	
	COMPLETION 3 PRODUCING 4
SITE CONDITION:  TEMPORARY SEEDING SEEDED SEEDED	PLUGGED 5
DRAINAGE OK TEMPORARY SEEDING SEEDED TRASH	AFRIAL 6
DRAINAGE CONTROL DACKETTILED TRASH	COMPLAINT 7
SEDIMENT CONTROL SUBSIDENCE NO SIGN ONMENTS PRESENTE NO K	
COMMENTS TREATMENTS	SHUT-IN 8
	CONSTRUCTION 9
PIT CONDITION:	OTHER 10
APPROXIMATE SIZE PLASTIC LINED BACKFILLED STABIL	
COMMENTS	RECORD 12
	RECLAIHING 13
ROAD CONDITION:	PIPELINE
GRADE: STEEP HOBERATE FLAT GRAVEL ROGINGIN	PRE-PERHIT 14
COMMENTS reserve	
	OPERATION 16
PIPELINE CONDITION:	RE-INSPECTION 17
SIZE SURFACE BURIED LENGTH (INSPECTED)	COMPLAINT 18
COMMENTS	
	ACTION OF INSPECTOR
	NONE 9
	SITE OK
RIG AND WELL INSPECTION	OPERATOR INFORMED OF
TYPE: ROTARY CABLE TOOL WORKOVER COMPANY NO PLA	POTENTIAL PROBLEM 2
SAFTEY EQUIPMENT: HARD HATS BLOWOUT EQUIPMENT WORK AREA	VIOLATION ISSUED 3
HARD TOES FIRE EXTINGUISHERS WORKHEN ON RIG	OPERATIONS HAULTED 4
DEPTH DEVIATION DEGREES AT FEET CASING IN HOLE	
COMMENTS	PLAN APPROVED 6
	VIOLATION CANCELLED 7
	CONSULTATION 8
EQUIPMENT	PLAN NOT APPROVED 9
PLUCGED PRODUCING TANKS NO	***************************************
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SIGN EQUIPMENT WILL AGE LEARS	NONE 0
COMMENTS	CONTACT COMPANY 1
	CONTACT COMPLAINANT 2
	RE-INSPECTION NECESSARY 3
ACTIONS OF INSPECTOR	REDUCE INSPECTION
SECTION OR REGULATION CITED	FREQUENCY 4
COMPANY NOTIFIED	•
COMMENTS	
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	(LIHIT COMMENTS TO
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INSPECTOR	ON COMPUTER V

### INSPECTION REPORT

MELL NAME/NUMBER P-ZO   TIME AZ COUNTY DIZKENSON INSPECTION  FRE-PERHIT: PLAN ACCEPTABLE LOCATION CORRECT COMMENTS  SITE CONDITION: DRAINAGE CONTROL SEEDED SEDIMENT CONTROL SEEDED TEMPORARY SEEDING COMMENTS PIT CONDITION: APPROXIMATE SIZE BACKFILLED COMMENTS ROAD CONDITION: GRAPE: STEEP MODERATE FLAT GRAVEL COMMENTS NEED STABILITY  TYPE: ROTARY CABLE TOOL MERKOVER COMPANY SAFETY EQUIPMENT: HARD TOES FIRE EXTINGUISHERS WORK AREA COMMENTS  DEPTH CABLE TOOL FUSHER COMMENTS  DEPTH CABLE TOOL FUSHER COMMENTS  DEPTH CABLE TOOL FIRE BECUIPMENT HARD TOES FIRE EXTINGUISHERS  WELL PROGRESS CASING IN HOLE DEVIATION DEGREES AT FEET NUMBER OF WORKWEN ON RIG TOOL PUSHER  COMMENTS  PLESSED  EQUIPMENT EQUIPMENT ANKS COMMENTS  PRESCRICTION ACCOUNTY TOOL PUSHER  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  TOOL PUSHER  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS  COMMENTS	200 PM DATE 3+36481
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TEMPORARY SEEDING TRASH  COMMENTS   CCC   A   A   C    PIT CONDITION:  APPROXIMATE SIZE BACKFILLED    PLASTIC LINED STABILITY    COMMENTS    ROAD CONDITION:  GRAPE: STEEP   MODERATE    GRAVEL    COMMENTS   CCC   A   A    GRAVEL    COMMENTS   CCC   A    RIS INSPECTION    MORKOVER   COMPANY    SAFETY EQUIPMENT: HARD HATS   BLOADUT EQUIPMENT    HARD TOES   FIRE EXTINGUISHERS    WORK AREA    COMMENTS    MELL PROGRESS    CASING IN HOLE    EVIATION   DEGREES AT   FEET    UMBER OF WORKNEN ON RIG   TOOL PUSHER    COMMENTS    LUGGEO   EQUIPMENT    ANAMENT/SIGN   TANKS    GOULDING   DYGES    SISING IN HOLE   LEAKS    COMMENTS    TOOL PUSHER    EQUIPMENT    ANAMENT/SIGN   TANKS    GOULDING   DYGES    SISING IN HOLE   LEAKS    TOOL PUSHER    COMMENTS    TOOL PUSHER    EQUIPMENT    TANKS    GOULDING   DYGES    SISING IN HOLE   LEAKS    TOOL PUSHER    EACH PROGRESS    CASING IN HOLE    EQUIPMENT    TANKS    GOULDING   DYGES    SISING IN HOLE    LEAKS    TOOL PUSHER    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN HOLE    EACH PROGRESS    CASING IN	
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TEMPORARY SEEDING TRASH  COMMENTS   CC   A   M   C    PIT CONDITION:  APPROXIMATE SIZE BACKFILLED    FLASTIC LINED STABILITY    COMMENTS    ROAD CONDITION:  GRAPE: STEEP   MODERATE    GRAVEL    COMMENTS   CCC   T   M    GRAPET    GRAPET    COMMENTS   CCC   T    GRAPET    GRAPET    COMMENTS   CCC   T    RIG INSPECTION    MORKOVER   COMPANY    SAFETY EQUIPMENT    HARD TOES   FIRE EXTINGUISHERS    WORK AREA    COMMENTS    MELL PROGRESS    CASING IN HOLE    EVIATION   DEGREES AT   FEET    UMBER OF WORKEN ON RIG   TOOL PUSHER    COMMENTS    LUGGEO   EQUIPMENT    INMENT/SIGN   TANKS    MODERATE    RIG INSPECTION    MODERATE   COMPANY    RIG INSPECTION    MODERATE   FLAT    COMPANY    RIG INSPECTION    MODERATE   COMPANY    RIG INSPECTION    MODERATE   COMPANY    RIG INSPECTION    MODERATE   COMPANY    RIG INSPECTION    MORKOVER    COMPANY    COMPANY    RIG INSPECTION    MORKOVER    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    COMPANY    CO	AERIAL (
COMMENTS   CC   A   A   C   A   A   C   A   A	
PIT CONDITION:  APPROXIMATE SIZE  PLASTIC LINED  COMMENTS  ROAD CONDITION:  GRAPE: STEEP  GRAVEL  COMMENTS  RIS INSPECTION  TYPE: ROTARY  CABLE TOOL  MORKOVER  COMMENTS  HARD TOES  HARD TOES  HORK ASEA  COMMENTS  WORK ASEA  COMMENTS  MALL PROGRESS  CASING IN HOLE  EQUIPMENT  LUGGED  EQUIPMENT  EQUIPMENT  LUGGED  EQUIPMENT  EQUIPMENT  LUGGED  EQUIPMENT  COMMENTS   EQUIPMENT  EQUIPMENT  LUGGED  EQUIPMENT  COMMENTS  EQUIPMENT  EQUIPMENT  EQUIPMENT  COMMENTS  EQUIPMENT  EQUIPMENT  EQUIPMENT  EQUIPMENT  TANKS  COPICING  EQUIPMENT  EQUIPMENT  LUGGED  EQUIPMENT  EQUIPMENT  LUGGED  EQUIPMENT  EQUIPMENT  LUGGED  EQUIPMENT  LUGGED  EQUIPMENT  LUGGED  EQUIPMENT  LUGGED  LUGGED  EQUIPMENT  LUGGED  LUGGED  EQUIPMENT  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGGED  LUGG	SHUT-IN 8
APPROXIMATE SIZE	CONSTRUCTION 9
FLASTIC LINED STABILITY COMMENTS  ROAD CONDITION:  GRAPE: STEEP   MODERATE   FLAT    GRAVEL   COMMENTS   PLOCATE   FLAT    TYPE: ROTARY   CABLE TOOL   MORKOVER   COMPANY    SAFETY EQUIPMENT: HARD HATS   BLOROUT EQUIPMENT    HARD TOES   FIRE EXTINGUISHERS    WORK AREA   COMMENTS    EPTH   CASING IN HOLE    EVIATION   DEGREES AT   FEET    DWINENTS    EVIATION   DEGREES    COMMENTS    EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT    LUGGED   EQUIPMENT	
COMMENTS  ROAD CONDITION:  GRAPE: STEEP   MODERATE   FLAT    GRAVEL   COMMENTS   COO   COT   WARTCY   GAS    TYPE: ROTARY   CABLE TOOL   MORKOVER   COMPANY    SAFETY EQUIPMENT: HARD HATS   BLONDUT EQUIPMENT    HARD TOES   FIRE EXTINGUISHERS    WORK AREA   COMMENTS    EPTH   CASING IN HOLE    EVIATION   DEGREES AT   FEET    UMBER OF MORKINEN ON RIG   TOOL PUSHER    COMMENTS    LUGGED   EQUIPMENT    INMENTS    LUGGED   EQUIPMENT    INMENTS    EQUIPMENT    LUGGED   EQUIPMENT    INMENTS    LUGGED   EQUIPMENT    INMENTS    ENUMERATE   EQUIPMENT    INMENTS    ENUMERATE   EXELL PROGRESS    COMMENTS    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    EQUIPMENT    E	
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GRAVEL  COMMENTS NO CONTINUENTS  RIG INSPECTION  RIG INSPECTION  TYPE: ROTARY CABLE TOOL MORKOVER COMPANY  SAFETY EDUIPMENT: HARD HATS BLONDUT EQUIPMENT  HARD TOES FIRE EXTINGUISHERS  WORK AREA  COMMENTS  MELL PROGRESS  CASING IN HOLE  EVIATION DEGREES AT FEET  UMBER OF WORKMEN ON RIG TOOL PUSHER  OMMENTS  LUGGED EQUIPMENT  ANAMENT/SIGN TANKS  GODUCING DYKES  ISING IN HOLE LEAKS	RECORD 12
GRAVEL COMMENTS NEED TO L WATCH BACS  RIG INSPECTION  TYPE: ROTARY CABLE TOOL WORKOVER COMPANY SAFETY EQUIPMENT: HARD HATS BLOWDUT EQUIPMENT HARD TOES FIRE EXTINGUISHERS WORK AREA COMMENTS  MELL PROGRESS CASING IN HOLE EVIATION DEGREES AT FEET UMBER OF WORKEN ON RIG TOOL PUSHER COMMENTS  LUGGED EQUIPMENT CHARACTURES ROPUCING DYKES ISING IN HOLE LEAKS	PIPELINE
RIG INSPECTION  TYPE: ROTARY CABLE TOOL MORKOVER COMPANY  SAFETY EQUIPMENT: HARD HATS BLOADUT EQUIPMENT  HARD TOES FIRE EXTINGUISHERS  WORK AREA  COMMENTS  MELL PROGRESS  CASING IN HOLE  EVIATION DESKEES AT FEET  UMBER OF WORKNEN ON RIG TOOL PUSHER  OWMENTS  LUGGED EQUIPMENT  INVAMENT/SIGN TANKS  RIG INSPECTION  WORKOVER COMPANY  COMPANY  RIG INSPECTION  WORKOVER COMPANY  COMPANY  RIG INSPECTION  WORKOVER COMPANY  COMPANY  COMPANY  COMPANY  RIG INSPECTION  WORKOVER COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  C	
RIG INSPECTION  TYPE: ROTARY CABLE TOOL MORKOVER COMPANY  SAFETY EQUIPMENT: HARD HATS BLOADUT EQUIPMENT  HARD TOES FIRE EXTINGUISHERS  WORK AREA  COMMENTS  MELL PROGRESS  CASING IN HOLE  EVIATION DESKEES AT FEET  UMBER OF WORKNEN ON RIG TOOL PUSHER  OWMENTS  LUGGED EQUIPMENT  INVAMENT/SIGN TANKS  RIG INSPECTION  WORKOVER COMPANY  COMPANY  RIG INSPECTION  WORKOVER COMPANY  COMPANY  RIG INSPECTION  WORKOVER COMPANY  COMPANY  COMPANY  COMPANY  RIG INSPECTION  WORKOVER COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  COMPANY  C	CONSTRUCTION 14
TYPE: ROTARY CABLE TOOL MORKOVER COMPANY SAFETY EQUIPMENT: HARD HATS BLOWDUT EQUIPMENT HARD TOES FIRE EXTINGUISHERS WORK AREA COMMENTS  MELL PROGRESS CASING IN HOLE EVIATION DEGREES AT FEET UMBER OF WORKMEN ON RIG TOOL PUSHER OMMENTS  LUGGED EQUIPMENT CHUMENT/SIGN TANKS SODUCING DYKES ASING IN HOLE LEASS	OPERATION 15
TYPE: ROTARY CABLE TOOL WORKOVER COMPANY SAFETY EQUIPMENT: HARD HATS BLOWOUT EQUIPMENT HARD TOES FIRE EXTINGUISHERS WORK AREA COMMENTS  WELL PROGRESS CASING IN HOLE EVIATION DEGREES AT FEET UMBER OF WORKMEN ON RIG TOOL PUSHER COMMENTS  LUGGED EQUIPMENT CAMPANY COPUCING DYKES ISING IN HOLE LEGSED TANKS COPUCING DYKES ISING IN HOLE LEGSED LEGKS	RE-INSPECTION 16
TYPE: ROTARY CABLE TOOL WORKOVER COMPANY SAFETY EQUIPMENT: HARD HATS BLOWOUT EQUIPMENT HARD TOES FIRE EXTINGUISHERS WORK AREA COMMENTS  WELL PROGRESS CASING IN HOLE EVIATION DEGREES AT FEET UMBER OF WORKMEN ON RIG TOOL PUSHER COMMENTS  LUGGED EQUIPMENT CAMPANY COPUCING DYKES ISING IN HOLE LEGSED TANKS COPUCING DYKES ISING IN HOLE LEGSED LEGKS	COMPLAINT 17
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PILE NUMBER DI - 266

### INSPECTION REPORT

DATE /2-23-86	COMPANY POC
TIMB /200 PM	WELL NAME/NUMBER P-20/
INSPECTOR MUS	COUNTY PICKENSON
DRILLING STIMULATING PLUGGING .	PRODUCING X PLUGGED OTHER
BITE INSP	RCTION
PIT CONDITION:	\
Earthon Approximate Size	
Plastic Lined Stability	
Cossents	
Drainage 6000	Backfilled
Drainage Control Nd	Subsidence NU
Sediment Control NO	
Temporary Seeding MU	
Comments	
COAD CONDITION:	
GRADE: Flat Roderate	Steep \
Gravel	
Compents	
RIG INSPECTIO	ender verste gestellt der der de seine de seine stelle de de de de de de de de de de de de de
PE: Rotary Cable Tool Workove	ar
	owout Equipment
Hard ToesPi	
Work Area	re Extinguishers NORIC
Comments	
WELL PROGRESS	
Depth Casin	g In Hole 41/2"
Deviation at	feet
Number of Workmen on rig Tool Po	isher
Comments	·
BQUIPHENT	
Plugged Eq	uipment OKIN + meter
Monument/sign Ter	nks N/A
Producing	KOBN/A
Casing In Hole 1/2 Los	ksw0
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ACTIONS OF INSPECTO	unidationaren eta eta elempionaren eta eta esta eta eta eta eta eta eta eta eta eta e
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Company Notified	
Violation Issued_	Posted
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Date.			/		<u> 00</u>
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Operato		$\sum_{n}$		,	
Well No	$\cdot$ $\Gamma$	- 4	01	7 · · · · · ·	

VIRGINIA OIL AND GAS INSPECTOR
Department of Labor & Industry
Oil and Gas Section
205 W. Main Street
Abingdon, Virginia 24210
Phone 703 628-8115

### CERTIFICATION OF LOCATION OF A NEW WELL

I, the undersigned, hereby certify that I am familiar with the well plat
showing the permitted location of the new well authorized by Permit No. 866
and that the well has been drilled in complicance with the standard of
Regulation 4.02 of the Regulations promulgated pursuant to the Virginia Oil and
Gas Act, as follows:

within three feet of the location as
 permitted in an area underlain by known
 coal seams identified by the Chief of the
the Division of Mines pursuant to Code
of Virginia \$ 45.1-333, or
within ten feet of the location permitted
other areas.

Marlu Marlue Authorized Agent

APPROVED				
TITLE	:	 		
,	,,,,	 	,	 
DATE				 

Company POC	Date 2/6/86
Well Number $l-20/$	Time 300 PM
County OICKENSON	Inspector MJ5
•	
Is hole staked?	·
Is location correct?	
	•
Were offsets/backsights/alignment points found as indicate	ed on the plat?
Condition of the site: Undistrubed	
Cleared	
Graded	•
Pit(s) dug	

Comments/Recommendation:

### PERMIT INFORMATION

Company Name	Philadelphia Oil Company			
Well Name	P-201			
File Number				
API Number	45-051-20866			
Permit Number	r <u>866</u>	<del></del>		
Farm Name	W. F. Grizzle			
Date of Perm	it			
District	Ervinton			
Quadrangle	Nora			
Latitude 9	,260 South of 37 ° 07	'_	_30_	
Longitude 2,	,320 'West of 82 ° 15	'_	00	
Surface Eleva	1,908.84			
Projected Dep	oth 5,119			
Target Format	ion Berea		-	
County	Dickenson		_	
Jurisdictiona	1			

### January 13, 1986

Mr. Paul Guill, Chief Engineer Clinchfield Coal Company P.O. Box 7 Dante, VA 24237

Pegasus Resource Company c/o Mr. Larry Cline, Property Mgr. Rocky Top Development, Inc. P.O. Box 1357 Abingdon, VA 24210

Mr. Allen B. Kiser, Mgr. Pine Mountain Oil and Gas Company P.O. Box 7 Dante, VA 24237

RE: PHILADELPHIA OIL COMPANY - WELL NO. P-201

#### Gentlemen:

Attached is a plat showing proposed Well Location No. P-201 upon Philadelphia Oil Company Lease No. PO-148 (T-296), W. F. Grizzle 149.36 acres situated on Breeden Branch of Fryingpan Creek, Dickenson County, Virginia.

The elevation of the proposed well location is 1908.84 feet above sea level and the coordinates are: S. 252.087; E. 36626.407.

We propose to install approximately 2111 feet of 8-5/8 inch casing in the well to be cemented to the surface to protect unoperated coal and surface water.

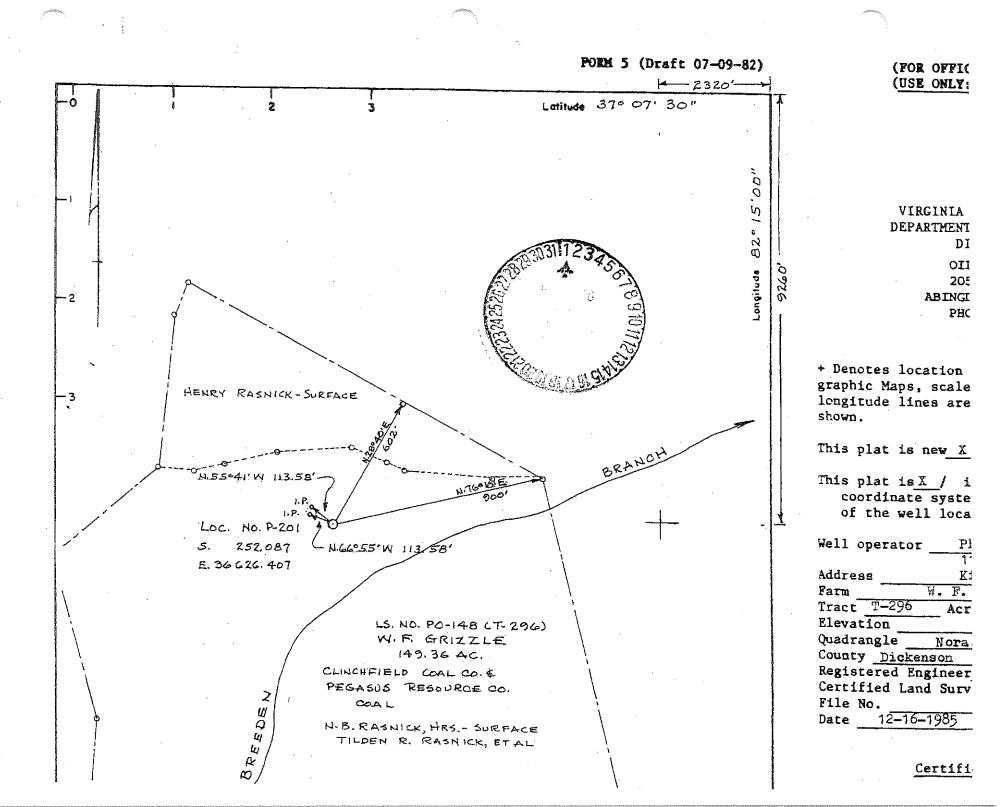
This location was tentatively approved by the above-mentioned companies recently, designated as No. 85-35.

Please notify me by mail at your earliest convenience as to whether there will be any objections to this location as proposed.

Sincerely,

B. C. Spradlin, Manager of Plans & Surveys Kentucky West Virginia Gas Company P.O. Box 431
Prestonsburg, KY 41653

cc: Don C. Hall, Philadelphia Oil Company



### DRILLER'S LOG

Compiled by Brint Camp

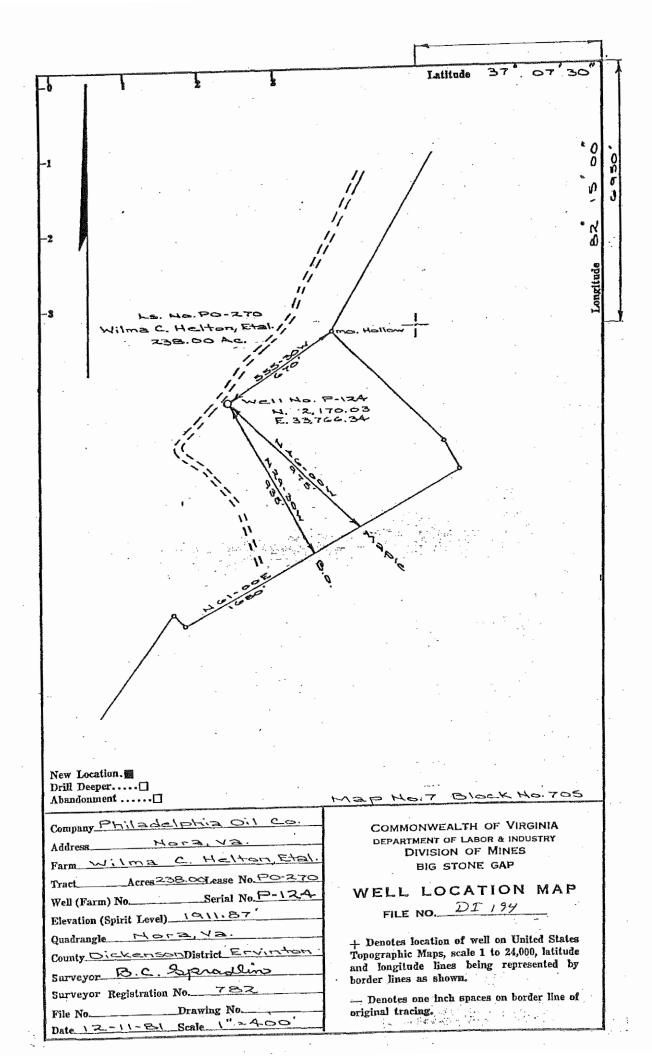
, ge	eolo- ocal Nge	Formation	General Lithology	Color	Dept Top	h (feet) Bottan	Thickness	Remarks
	190	TOTHACION	Dichorogy	COTOL	100	DOCCOM		ACTION NO.
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Mississip	pian	Ravenclif	f ·		2667	2824	157	
. • • • • • • • • • • • • • • • • • • •		Little St	one Gap		2824	2884	60	
**		Shale			2884	2968	84	
11		Maxon San	is	. :	2968	3622	654	
		Shale			3622	3756	134	
11.		Little Lin	ne	3	3756	3832	76.	
11		Lime & Sha	ile	3	3832	3950	118	•
11		Big Lime		. 3	3950	4390	440	
11		Keener		4	390	4400	10	
		Weir		4	400	5004	604	-
n		Coffee Sha	le .	5	004	5076	72	
11		Berea		5	076	5150	74	
Prvonian		Brown Shal	e	5	150	5260	110	
89							•	

Complete on supplemental sheet as necessary

### DIRECTIONAL SURVEY

### P-201

Depth		Degree
26 L		3/4
400		1/4
601		1/4
820		1/4
1008		1 3/4
1229		1
14 15		1/2
1600		2
1786	•	1 1/2
2005		2
1995		1 1/4
2224	·	1 1/4



1	To be filled in by Division of Mines						
	EKENSON	DEPAR	DEPARTMENT OF LABOR AND INDUSTRY  DIVISION OF MINES Well No.				filled in by or of Mines) P= (21L
	Connty		DIVISION OF A Big Stone Gap, Vi			eu no emit No	
6	DIRECTOR		DEEPENED			ounty Code	
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Company	yPhiladelq	hia Cil Company	7 Ad	dress	2.0. Box 43	1	
		Relton, Etal.	Ac	res2:	maburg. KY	41653	
County_ Well No.	Dickenson (Company)	P-124			und surface)	1911.87	t
Location	: (Give direction on location graphic ma	a plat or map pre	in leet from two (2) eviously filed with the	Division	of Mines or	shown on o	ogol elganthaup ogol elganthaup
695	0 feet	south	of 37		10"		
510			of82 <sup>c</sup>		6"		
Surface of Address _	f treet is owner Star. Rou	l in fee simple by _ to Box 353, Dan	Anthony C. Weing te, Virginia 24237 Ild Coal Company	arten. E	tal		
Mineral ri Address	ghts are owned	by <u>Clinchfie</u> Dante, Vi	Id Coal Company rginia 24237				
Location : Drilling co	made by ommenced	Mr. B. C. Sprad 4-4-82	lia Drillin	g contract	or Union Dr	cilling In	corporated
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Well aband Well plugg	doned at	feet	onAffid	wit filed .	; Reason _		19
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							-
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Average In	jection Rate .		BPI	M; Instant	Shut-in Press	ns	
		e		psi;			n
Final Prod Gravity an	d grade of oil .						Barrels per day.
Oil pays at		feet to	feet. Oil sh	ows at (1 (2		_ feet to _	feet.
	(3)	feet to	feet,	(3	}	_ feet to _	feet.
	(4)	feet to feet to	feet.	(4 (5		feet to _ feet to _	feel, fcet.
Main prodi							
Gas Well nitial oper Volume Simulation sand vater	n flow, gas:  RecordTh  500 gallons	75 te Berea was Foa Mud Acid 557,6 Lime was water	Gaged  Mcf.; Rock P  m fractured using 00 standard cubic fractured using 30	50 ressure 30,000 1 feet (Sc ,000 1bs	HOLL . 1	Water in	1 inch. inch. hrs. 000 20/50 478 Barrels co
Gas Well nitial oper Volume Stimulation sand Pate HC1,	n flow, gas:  n RecordTi500 gallons r. The Big and 555 bax  Pressure Bero ection Rate	75  Re Berea was For Mud Acid 557,6  Hud Acid 557,6  Line was water rels of water.  a -1800 pst/B.L.  Berea -10/ B.L.	McL; Rock P m fractured using 000 standard cubic fractured using 30 2100 ps; Average II -12 BPM	ressure 30,000 1 feet (Sc ,000 1bs njection Pr ; Instant S	/10ths M bs. 80/100 f) of Mitro of 20/50	lbs, sand, 60 agen and sand, 300 a-1800/B.	inch, hrs. s000 20/50 478 Barrels of gailons 28% L2500 psi; 1300 nsi:
Gas Well nitial oper Volume Stimulation sand Pate: HC1,	n Record _Th 500 gallons r. The Big and 555 bar Pressure Bero ection Rate ut-in Pressure _	75  te Berea was Fox  te Mud Acid 557,0  Line was water  rels of water.  a -1800 pst/B.1  Berea -10/ B.L.  Berea 1200 psi/si	Mcf.; Rock Per fractured weing 300 stendard cubic fractured using 30	ressure	/10ths. 8 bs. 80/100 f) of Mitro of 20/50 a essure Berea thut-in Pressur	leteury in los, sand, 60 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and sand, 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen and 300 ogen a	inch. hrs. 000 20/50 478 Barrels of 0 gallons 289 L2500 psi;
Gas Well nitial oper Yolume Einvalation sand vate RC1, breakdown verage Inj 15Min. She	n flow, gas:  n Record _Th 500 gallons  r. The Big and 555 bar  Pressure Bero ection Rate ut-in Pressure _ flow _Beroa	75  te Berea was For the Mud Acid 557,0  Line was water rels of water.  a -1800 pst/B.L.  Berea -10/ B.L.  Berea 1200 ps1,  327, B.L. 423	Mcf.; Rock P	ressure	/10ths. 8 bs. 80/100 f) of Nitro of 20/50 of essure Beres that in Pressure 600, B.L. 8	los, sand, 60 sand, 60 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 sand, 300 san	inch. ,000 20/50 478 Barrele c 0 gallons 283 42500 psi; 300 psi; 72 hrs.
Gas Well nitial oper Volume Stimulation Sand Vater RCL Preakdown iverage Inj	n flow, gas:  a Record _Tt 500 rallons  r. The Big and 555 bax  Pressure Bero ection Rate ut-in Pressure _ flow _Beroa (1) (2)	75  No Berea was Fos Mud Acid 557,0 Line was water rels of water rels of water a -1800 psi/8.1. Berea -10/ B.L. Berea 1200 psi 327, B.L. 423 feet to feet to	Mcf.; Rock Pressure feel, Gasshe Mcf.; Rock Pressure feel, Gasshe feel, Gasshe feel, Gasshe feel, Gasshe	ressure	/10ths. 8 bs. 80/100 f) of Matro of 20/50 essure Recessionatin Pressure 600, B.L. 8	sand, 60 bgen and sand, 300 Bereal B.L. 2:	inch. hrs. ,000 20/50 4/8 Barrels ( 0 gallons 28) 1300 psi; 1300 psi; 1200 feet. feet. feet.
Gas Well nitial oper Yolume Elimulation sand yate HGL, Preakdown iverage Inj LOMin. She limal Open las pays at	n flow, gas:  n Record _Tt 500 gallons  r. The Big and 555 bar  Pressure Bere ection Rate at-in Pressure [low_Berea {1} {2} {3} {44}	75 to Berea was Fos bud Acid 557,0 Line was water rels of water. a -1800 psi/8.1 Berea -10/ B.L. Berea 1200 psi Get to feet to feet to feet to	Mcf.; Rock Pressure feet, feet, feet, feet, get, get, get, get, get, get, get,	ressure	/10ths. 3 bs. 80/100 f) of Mitro of 20/50 essure Acres hut-in Pressur 600, B.L. 8	sand, 60 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and sand, 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen and 300 bgen	inch. http://www.ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.c
Gas Well nitial oper Yolume Elimulation sand yate HGL, Preakdown iverage Inj LOMin. She limal Open las pays at	n Record The 500 gallons r. The Big and 555 bar Pressure Beroection Rate ut-in Pressure _ (1) _ (2) _ (3) (3)	75 to Berca was For the Actd 537,0 Line was was for rels of water.  a -1800 psi/B.1. Berca -10/ B.1. Berca 1200 psi 327, B.1. 423 feet to feet to feet to feet to feet to 580 feet to 580 feet to 580	Mcf.; Rock P  m fractured using 30  2100 psi; Average II  12 BPN  Mcf.; Rock Pressure feet. Gas she feet. feet.	ressure	/10ths. 3 bs. 80/100 f) of Mitro of 20/50 essure Acres hut-in Pressur 600, B.L. 8	a-1800/B.  Berea: Berea: B.L. 2:  350 lbs. feet to feet to	inch. http://www.ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.com/ncs.c
Gas Well nitial oper Volume Simulation Sand yate: HGL, breakdown werage Inf 15Min. She iinal Open ias pays at Jain produ	a flow, gas:  a Record _Ti 500 gallons  r. The Big and 555 bar  Pressure Record (i) (2) (3) (4) (5) (6) (6) (1) (6) (1) (6) (1) (6) (1) (6)	75  a Berea was Fos  Mud Acid 557,0  Line was water rels of water rels of water rels of yater a -1800 psi/B.1  Berea -10/ B.1.  Berea 1200 psi  327, B.1. 423 feet to feet to feet to 500 6  feet, 1/2 st	Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mcf.; Rock P  Mc	ressure	/A0ths. N bs. 80/100 f) of Mitter of 20/50 of essure Borer hut in Pressur 600, B.L. 8	Jercury in lbs, sand, 60 send, 60 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 300 send, 30	inch. his. 600 20/50 678 Barrela c 0 gallons 28/ 28/ 600 pai; 600 psi; 600 psi; 600 feet. 600, 600, 600, 600, 600, 600, 600, 600
Gas Well nitial oper Volume Simulation Sand Vatee  BCI,  breakdown tverage Inj 15Min. She tinal Open tas pays at tain produ tresh water at ool: from	a flow, gas:  a Record _Ti 500 gallons  r. The Big and 555 bas and 555 bas getion Rate ut-in Pressure _Baso (2) (3) (4) (4) (5) (4) (5) (6) (6) (6) (6) (6) (6) (6) (6) (7) (7) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8	75 to Berea was Fos Mud Acid 557, Chine was water rels of water.  a -1800 psi/8.1. Berea -10/ B.L. 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Well No. P-124 File No. DI-194 Permit No. 462

LOG

Furnished by E. R. Hinns Date 7-12-82

Compiled by R. HcClesse Date 7-5-82

	Compil	ed by R. H	cClesse	Date7-	-5-82		-
C⊭oLogic AGE	FORMATION	Ceneral	COLOR	Top (feet)	BOTTOM (feet)	THICKNESS (feel)	Remarks CL, Gas Water Depths Shut Down Fishing, etc.
ACE	Fill Sd & Sh Conl Sd & Sh Conl Sd & Sh Shale Sand Sd & Sh Conl Sd & Sh Red Rack Sd & Sh Revenciiff Sd & Sh Revenciiff Sd & Sh Maxon Sd & Sh L Lime Kaener Weitr Coffee Sh Bores Brown Sh T.D.		COLOR	0 0 1.5 52 34 34 34 34 34 34 34 34 34 34 34 34 34	15 52 54 255 573 928 1031 1061 1065 2120 2607 2810 3100 3722 3786 3800 4326 4526 4526 4526 4546 4546 4546 4546 45	15 37 2 196 5 320 353 111 22 4 1055 10 477 203 299 622 64 14 65	Water @ 4395 ödor  Cas @ 5144 75M

THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON:

E. R. Highs, Chaif Geologist

В

# COMMONWEALTH OF VIRGINIA COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG TONE GAP, VIRGINIA 24219 PHONE 703-523-0335

APPLICATION FOR PERMIT TO (DRILL) (REDRILL) (DEEPEN) OIL OR GAS WELL

Virginia, 1950, 1954 and the 1966 Cumulative
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fee of one hundred dollars and bond and surety
be submitted in triplicate, one copy to be re-
of Mines and Quarries.
Box 431
Prestonsburg, KY 41653
Place December 28, 1981
Date
Date
for a Permit to drill, redxMXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Melton eta Farm, comprising 238.00acres, in
County, Virginia, having the fee title there-
ase dated July 26 ,19 74 made by Wilma
toPhiladelphia Oil Company
,1975 in the office of the County Clerk
76
on a location plat or map submitted to the
ersigned, together with Notice of Intention to
Gas on the 1 day of $M_{ay}$ .1982.
o. P-124 of Philadelphia Oil Company
well to a depth of about 5089 feet.
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nearest mining opening, XXX daax XXX strike out
feet distant from the nearest drilling, abandon-
ords not applicable) SXXXX gas (strike out words
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Address Correspondence to: P. O. Box 313 Zip Code 24272

### OPERATIONS PLAN

(1) Philadelphia Oil Company proposes to drill Well No. P-124 situated on Left Fork of Lick Creek in Dickenson County, Virginia. A rotary rig will be used to drill this well requiring approximately fourteen (14) days to drill this well to total depth. Approximately thirty (30) days after the well has been drilled a cable tool spudder will be moved onto the location to fracture and complete the well. The casing program is as follows:

Casing Size	Depth	Remarks
16 inch	301	Case off fresh water.
8-5/8 inch	2,155'	Set in top of Red Rock and cemented to surface to contain possible formation water and protect all coal seams.
4-1/2 inch	5,089'	Production casing to be set at total depth and cemented through gas bearing formations.
2 inch	5,064'	Production string.

- (2) Site preparation is expected to begin January 20, 1982 and final well completion is expected July 17, 1982. Reclamation is expected to be completed by October 17, 1982.
- (3) Soils are of the loam to silt type, medium depth, with no erosion problems anticipated. No timber will be encountered in the project area. The well site and pit areas will be constructed on a flat with a 2° slope.

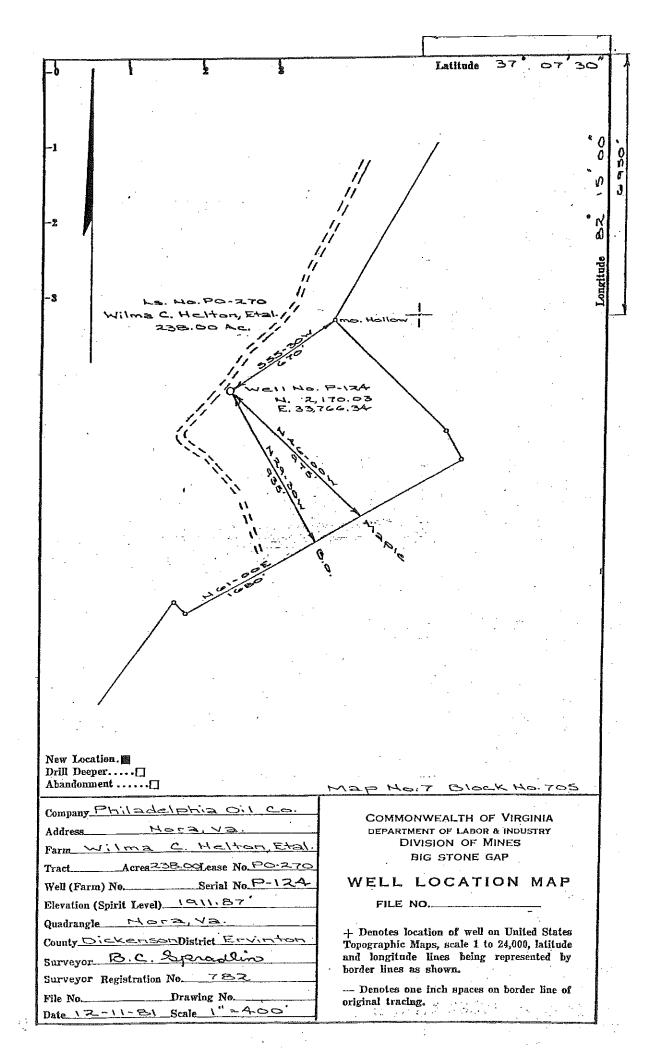
  Approximately 100 feet of access road will be constructed from a public road to gain access to the drill site. Pipe culverts will be maintained along the existing road to provide proper drainage. Cut and fill areas along the

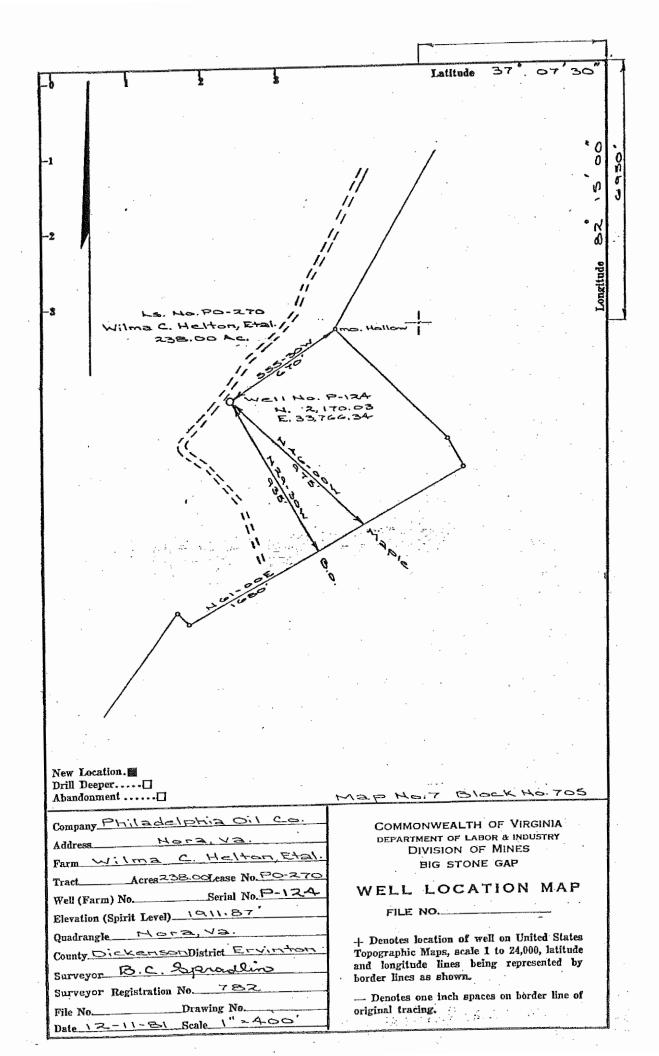
constructed road will be sown with Ryegrass and KY 31 Fescue to stabilize the affected areas and prevent erosion. The entire project area comprises of 1.22 acres.

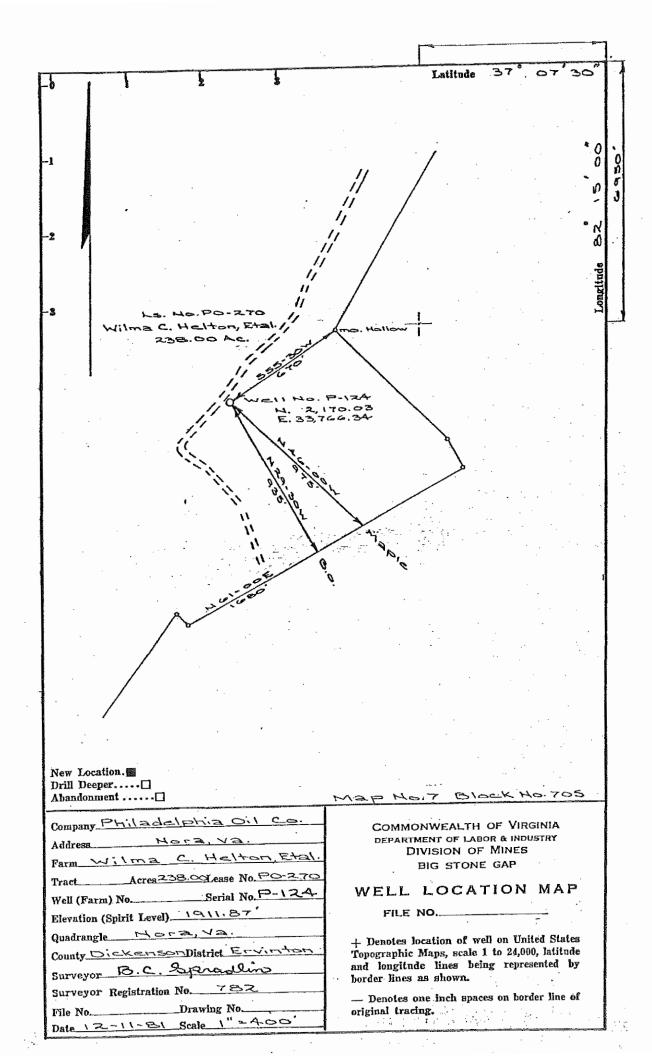
- (4) After grading is completed on the well site and pit areas all unstable areas will be sown immediately to prevent erosion (Pit 100' x 75') (Auxillary Pit 100' x 75') Well site (100' x 200')
- (5) Upon completion of the well and pipeline operations, pit areas will be filled and covered with adequate top soil and entire well site will be graded and seeded with approximately 250 pounds of Ryegrass and KY 31 Fescue and ten bales of straw is to be used as mulch in critical areas to prevent erosion and to stabilize the area.

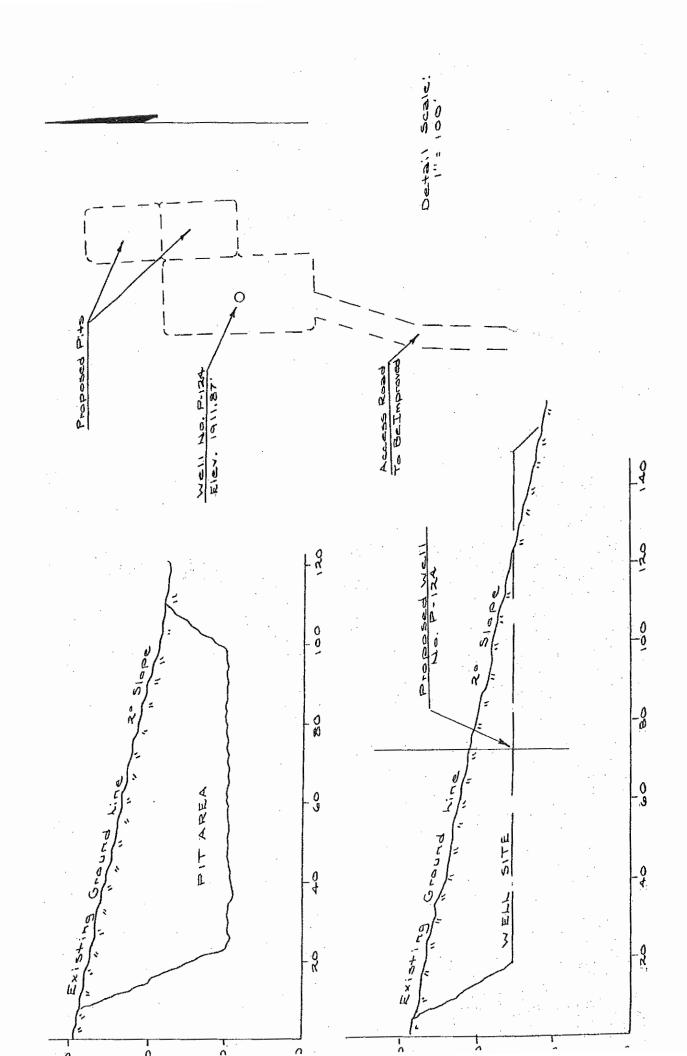
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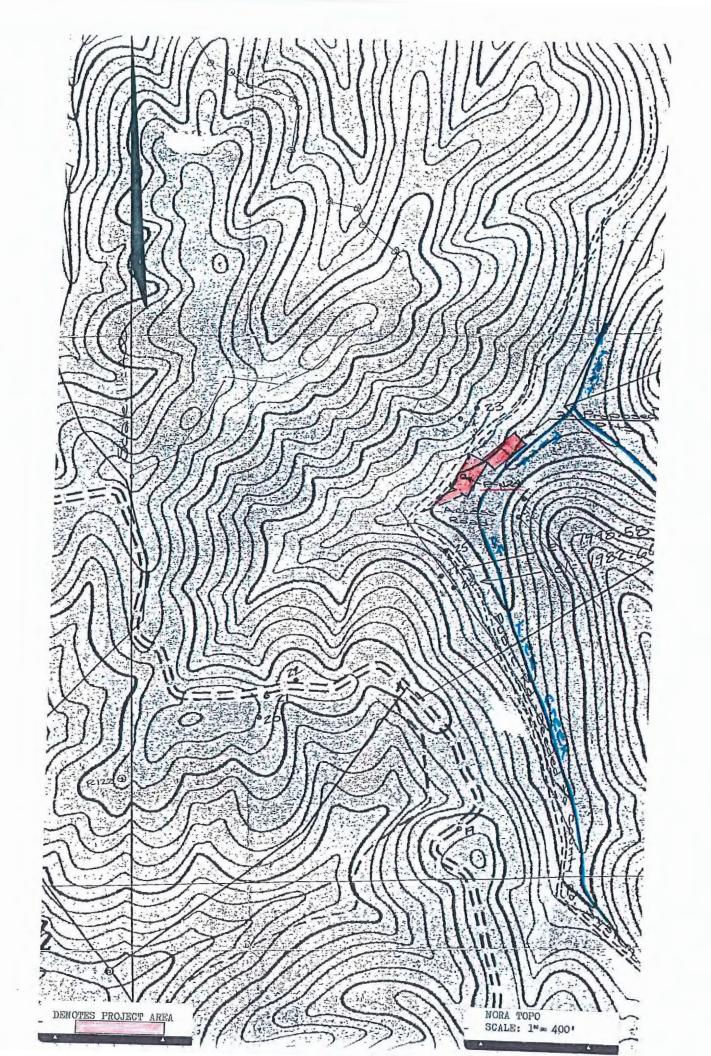
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# COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG STONE GAP, VIRGINIA 24219

# NOTICE OF INTENTION TO (DRILL) (REDRILL) (DEEPEN) OIL OR GAS WELL

	pies of a plat or mop, on a scale not smaller than 400
	ired by Section 45.1-114, Code of Virginia, 1950, 1954
	submitted to the Division of Mines and Quarries, and
copies sent by registered mail to all persons def	ined in above low, prior to obtaining a permit to drill.)
	Box 431
TO: Division of Mines and Quarries	Prestonsburg, KY 41653
Drawer V	Place
Big Stone Gap, Virginia 24219	December 28
	Date Date
	사고 있다는 사람들이 살았다. 이상 경험하는 이사 때
Gentlemen:	
	permit therefor is obtained from the Division of Mines
and Quarries, to drill, स्ट्राप्ट्री अध्यक्षक्षक (strike	
Helton, et allarm, comprising 238.00	acres, in the Ervinton District of
Dickenson County, Virginia, ha	ving the fee title thereto, or as the case may be, under
grant ar lease dated July 26, 1974	
to Philadelphia Oil Company and records	d on the 25 day of August ,19 75
in the office of the County Clerk for said County	
The proposed location of the well, as shown on t	he oftached plat or map, is about 5100
(feet/MMMM) West of 82°15'	
	X South of 3700713014
5500' East of Counts Cemetary - 4700'	
	ut 5089 feet. Samples or cutting therefrom will
	mber of the staff of the Virginia Geological Survey.
Cuttings will or will not be furnished the Survey.	, · · · · · · · · · · · · · · · · · · ·
	ler than 400 feet to the inch, showing the proposed to-
cation of the well and other information, require	d in Section 45.1-114, Cade of Virginia, 1950, 1954
	hereto. Copies of the plat and notice of intention ta
	have been sent to all interested persons as required by
Section 45.1-114, above cited, as follows (list n	names and mail address of each. Use back of sheat if
additional space is required):	
1. Clinchfield Coal Company, Dante, '	Virginia 24237 (Coal owner)
2.	
3.	
4.	
5.	
6.	
	Very truly yours,
Signature of officer or certifying party:	Philadelphia Oil Company
BAHager	Drilling Company or C perator
Name	Box 431
B. D. Hager, Operating Manager	Street Address
Tinter	Prestonsburg, KY 41653
	City or Town ond State
•	
File DI-195 Dote Received	January 11 1982 Well No. P-124
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# Buitable Resources Exploration

Operations Essa: Perede #: 462

A Division of Fruitable Resources Frency Concer

Department of Mines. Minerals and Energy Division of Gas and Cil



Department of Mines, Minerals and Energy Division of Gas and Oil F. O. Box 1416 Abingdon, Virginia 24210 703/676-5423



(Cals.)

#### APPLICATION FOR DISPOSAL OF FUT OR PRODUCED PLUIDS

garaneae	co VR 480-05-22.1	, § 1.42. The	ondersigned	pormice	ee redres	Es t			:						
														•	
۵. ا	Y Thetoner to	craneport a	d dispose of	pit or	produced	fluids	ebroagh	sz spp	roved	disposal	sire.	which	sccapts	pic (	3
	produced flui	de f <del>ron</del> gas s	and oil opera	tions.											
В.	Approval for	a oze zise ar	relication of	pit flu	ide on th	e pered	tte bess.	e.							

For applications under A. the permittee is required to submit the following with this application.

- 1. Submit the appropriate federal, state, and/or local permit number of the facility the permittee is proposing to dispose of the fluids under.
- 2. Attach a copy of the appropriate sections of the permit, which allows acceptance of fluid waste from the gas and oil operations.
- 3. Submit the total estimated volume of fluid to be transported.

#### ATTACHED 582

For applications under B, the permittee must complete the following information with the appropriate documentation with this application.

Λ.	tir timro cdaracratization:				
	Date Pit was First Used	***************************************	Escim	Led Volu	me of Pic Fluid
	Description of the Constituents of	t⊅e ≾	fluid pl	Laced in	Pir
B.	Analysis of the Fit Fluid:				
	<u>Analysis</u>				Standard Limits
	pH				6-9 Standard Units
	Oil and Grasse				< 15 mg/1
	Lette westernesseemen				< 7 mg/1
	Hanganese				< 4 mg/l
	Acidity				< alkalimity
	Alkalnity				> acidicy
	Chingides				5 000 mm/1 *

\* For chlorides above 5,000 mg/l, the application will be reviewed to determine whether a permit would be required from the Virginia Bater Control Board.

SAR of 8-12 40

\*\* The Sodium Absorption Rate shall be determined on the soils to which the liquid is to be applied.

FORM DGO-CO-16 Rev 9/91

Sodium Balance

1 of 2

		,	•			Equitable	Resources Division	Exploration of
Departme	ent of Muss, Musrals and Energy			Operations		rquitable i	*esources	Friency Compa
Dividos	of Gas and OLL			Fermir /:	462	(P-124)		
				•				
<b>C.</b>	Verification of Analysis:		•					
	Attach the lab analysis and its	results. Denote o	n the attack	ment the date,	dme,	and mathed of	f collect	on and the dat
	of the analysis.	•						
		**					21.2	Property de la
D.	Description of Application Area:							-
	Soil Type	Soil Permeability	y Dep	th to Bedrock		Depth to Va	cer Table	
	Searest Vater Supply	Type: Well	Spring	Nearest Seria	ce Wat	er Caurses	·	
	Nearest Occupied Dwelling		-					
	Total Acresge of Proposed Applic	ation area	Average	slope of the	brobose	ed area of lar	d applicat	ci.on
			-5			****		. († 1
Ē.	Location and Design Map:					•		•
							in Light with	
	A map on the scale of 1"- 400' s							
	all surface vecers, valle, sp	_ , ,		my broberty T	rnes m	SETTETOS CO	cus brobos	ed area or la
	application. The map shall also	celineate my mi	Ter rouss.					
¥.	Merhod of Land Application:			•				
	Beenlan			_ 1			· Phadas	od-oden eb-1
	Provide a marrative, describing a include supporting calculations							
	the application of the pit fluid							
	the nonincerference to the grow							
	other data concerning the protect		_					
•						:		
CERTIFICA	ATION:							
I th	se undersigned applicant or permit:	ee, certify that	this documen	c and all acca	Chmant.	s were breber	ed under	my directio:
The infor	macion submitted is, to the base of	if my knowledge, t	rue, accurat	e, and complet	<b>4.</b>		. •	
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		(Si	goscure)	Donylan perations Mar	0.	Juny		*
				namations Mar	יייביים ביי	~ Va		
	· .		(Title)	Elacinis in	rie-r	ACT+ ,		
		,	. Oat	ober 15, 1	003			
			(Date) OCL	ODEL TO I	77.			
			-					
				,				

(FOR OFFICE USE ONLY:

(Approved Deniad
(B. A. Shipmy)
(State Gas and Oll Inspector

#### ATTACHMENT TO

# APPLICATION FOR DISPOSAL OF PIT OR PRODUCED FLUIDS

## PART A Submittal:

- 1. The coalbed methane and/or convention wells and/or pipeline fluids will be disposed of utilizing UIC permitted wells P-148-WD, KYI-0507, KYI-0508 and KYI-0222.
- 2. The appropriate sections of UIC disposal permits for P-148-WD Well, KYI-0507 Well, KYI-0508, Well and the Magnum KYI-0222 Well are all separately filed with the Division of Gas and Oil in Abingdon, VA.
- 3. Equitable Resources Exploration will report produced fluid volumes in the monthly VA DGO production report. The volumes os fluid hauled will be tracked by Equitable Resources Exploration as required by DGO, and the tracking records will be available to DGO upon request.

CBM - Nora Field DPT/ 9-27-93 Ravisad 6/16/1989 Form DCO-IR

# COMMONUTALITY OF VIRGINIA DEPARTMENT OF MINES, MINERALS AND ENERGY DIVISION OF GAS AND OIL P. O. BOX 1416 ABINGDON, VIRGINIA 24210



INSPECTION REPORT

COMPANY EREX	PILE 1 D1- 194
WELL P - 124	TIME 3 5.5 DATE 9 14/9
OUNTY DICKENSON	INSPECTOR MIS
SITE INSPECTION	. TIPE OF INSPECTION
PRE-PERMIT:	PRE-APPLICATION 0
PLAN ACCEPTABLE LOCATION CORRECT DRAINAGE CONTROLLED SEDIMENTATION CONTROLLED	PRE-PERHIT 1
COMMENTS	DRILLING 2
	COMPLETION 3
ITE CONDITION:	PRODUCING (4)
DRAINAGE OF TEMPORARY SEEDING SEEDED	PLUGGED 5
DRAINAGE CONTROL BACKFILLED TRASH	AERIAL 6
SEDIMENT CONTROL SUBSIDENCE SIGN	COMPLAINT 7
COMENTS ROLLAIN OLG	SHUT-IN 8
COMMENTS	CONSTRUCTION 9
IT CONDITION:  APPROXIMATE SIZE PLASTIC LINED BACKFILLED STABILITY C	OTHER 10
COMMENTS	RECORD 12
	RECLATHING 13
OAD CONDITION:	PIPELINE
GRADE: STEEP HODERATE FLAT GRAVEL 6	PRE-PERHIT 14
COMMENTS	CONSTRUCTION 15
	OPERATION 16
IPELINE CONDITION:	RE-INSPECTION 17
SIZE SURFACE BURIED LENGTH (INSPECTED)	COMPLAINT 18
CHAIGHTS	
CHICKETS	ACTION OF INSPECTOR
CONTENTS	NONE 0
	NONE 0 SITE OK 1
RIG AND WELL INSPECTION	NONE 0 SITE OR 1 OPERATOR INFORMED OF
RIG AND WELL INSPECTION  THE: ROTARY CABLE TOOL WORKOVER COMPANY NO RIG	NONE 0 SITE OR 1 OPERATOR INFORMED OF FOTENTIAL PROBLEM 2
RIC AND WELL INSPECTION  PE: ROTARY CABLE TOOL WORKOVER COMPANY O C C C	NONE 0 SITE OR 1 OPERATOR INFORMED OF
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RIC AND WELL INSPECTION  THE: ROTARY CABLE TOOL WORKOVER COMPANY (NO. 02) (S. 12)  LYTEY EQUIPMENT: HARD HATS BLOWOUT EQUIPMENT WORK AREA  HARD TOES FIRE EXTINGUISHERS WORKMEN ON RIC	NONE 0 SITE OR 1 OPERATOR INFORMED OF FOTENTIAL PROBLEM 2 VIOLATION ISSUED 3 OPERATIONS HAULTED 4 SITE POSTED 5
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# POOR QUALITY

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# INSPECTION REPORT

COMPANY <u>EREX</u>	FILE NUMBER DI
WELL NAME/NUMBER P-124	TIME 12 30 PM DATE 3-30-19
COUNTY DIZKENSON	INSPECTOR M.T.S
DITE TWOCATON	707 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107 Par 4107
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01-144 Objection



# **EQUITABLE RESOURCES EXPLORATION**

A Division of EQUITABLE RESOURCES ENERGY COMPANY

P. O. Box 313 Nora, VA 24272

October 15, 1993

B. T. Fulmer Oil and Gas Inspector Division of Gas and Oil P.O. Box 1416 Abingdon, VA 24210

RE: DGO Permit No. 462 (P-124)

Dear Mr. Fulmer:

Enclosed please find an application for produced fluid disposal for the above Equitable Resources Exploration operated conventional well located in the Nora Field.

Should you have any questions, please feel free to contact me at Phone # 1-703-835-9134.

Sincerely,

Douglas P. Terry/

Operations Manager-VA

0CT1993

RECEIVED

DIVISION OF

Certified RRR Enclosures

CC: Well Files

Lee Talbott

Don Hall

PC: CBM-haul.1

APPROVED
BY B. J. Infram
Virginia Gas and Oil Inspector
DATE 1/1/93



Address Correspondence to: P. O. Box 313 Zip Code 24272

December 28, 1981

Commonwealth of Virginia Division of Mines and Quarries Department of Labor and Industry Big Stone Gap, Virginia 24219

Re: Permit to Drill Well No. P-124, Philadelphia Oil Company, Lease No. 270

Gentlemen:

We submit herewith Philadelphia Oil Company's application for permit to drill a well for oil and/or gas upon the tract of land described therein.

This well will be drilled by Union Drilling Company, P.O. Brawer No. 40, Buckhannon, West Virginia 26201.

Agent's Check No. 245 in the amount of One Hundred Dollars (\$100.00), payable to Treasurer of Virginia is attached, said sum being payment of well permit fee.

Yours very truly,

BW Hagu B. D. Hager

Operating Manager

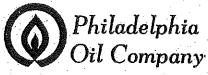
BDH/gjw

Enclosures

CC: Mr. J. E. Nypaver, Vice President of Operations The Pittston Company Lebanon, Virginia 24266

> Mr. Ray S. Dixon, Property Manager Clinchfield Coal Company Dante, Virginia 24237

Mr. E. B. Jenkins Mr. James G. Tilton Mr. Don C. Hall



Nora, Virginia

Address Correspondence to: P. O. Box 313 Zip Code 24272

July 25, 1984

Mr. Milford Stern Oil and Gas Section 205 West Main Street Abingdon, Virginia 24210

Dear Milford:

Beginning today Philadelphia Oil Company plans to begin producing the Berea formation of the following wells:

P-20	P-88	P-134	P-15
P-21	P-106	P-135	P-16
P-22	P-122	P-136	
P-23	P-123	P-140	
P-63	P-124	P-143	
P-64	P-132	P-145	
P-87	P-133		

Yours very truly,

DON C. HALL Field Agent

CC: Bob Hager
E. B. Jenkins
Ed Minns
Chuck Stewart
John Billips
Brint Camp
Charles Martin



# IIIIPITTSTON Clinchfield

Pittston Coal Group Clinchfield Coal Company P.O. Box 4000 Lebanon, Virginia 24266

An Affiliate of The Pittston Company

January 20, 1982

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. B. T. Fulmer State Oil and Gas Inspector Division of Mines and Quarries Big Stone Gap, Virginia 24219

> Re: Permit to Drill Well No. P-124, Philadelphia Oil Company, Lease No. 270

Dear Mr. Fulmer:

Our company is in receipt of a copy of a letter addressed to your division from Mr. B. D. Hager, Operating Manager of Philadelphia Oil Company, enclosing the permit application on the above well. I am advised that the proposed well is located on surface property on which Clinchfield Coal Company has an outstanding mining permit from the Division of Mined Land Reclamation and that such well is proposed within the bonded area. Therefore, we must object to the well application until satisfactory arrangements are made to insure that our company will not incur any additional environmental liabilities resulting from the placement of a well within the bonded area.

Sincerely yours,

CLINCHFIELD COAL COMPA

Donald R. Johnson

Senior Assistant General Counsel

DRJ:wf

cc: Mr. B. D. Hager

# THIS PERMIT IS NOT TRANSFERABLE

	1		of Virginia or and Industry F MINES	Permit No File No Well No <u>P-</u> _	-1954
	PER	Big Stone Ga	p, Virginia FOR OIL OR GAS		
	This is to certify	y that on this date	a permit to drill for of	il or gas	
whose main o	Philadel ffice is at Box 43	1, Prestonsburg	, Ky., 41653		
	tion of <u>Gas We</u>				
located at	Nora Quadrani	gle	County of	Dickenson	
penalties as prescribe	TITLE 45, CHAP'	TER 8, CODE OF without first obtaining a pericle 7 of the Code of Vir	N COMPLIANCE WIT VIRGINIA 1950 AS AN rmit as provided herein shall be ginia. Each day any person dril	MENDED  e guilty of a misdemeand	r or other
optaining such beemi			DIVISION	OF MINES	
obtaining such permi			McLynn Sharpe		~" ·
Issued this _	13th	day	,,—-y,,,, -,,,,,	Anex	, Chie

FORM 16 APPENDIX A, SHEET 1, (OBVERSE)

API WELL N	O. 45	- 051	_ 20866
			Permit
Date: Sept	ember 11	, 1986	
Operator's			
Name W. H	. Grizzl	e No.	P-201

1		DUBODE O	17					
	TEL DOTA		F COMPLETIA					
	TE DRIL	LING, REDI	RILLING, OF	R DEEPENING	3 IS IN	VOLVED		
						÷		
DOTE IN O	ONTO NOTION	Union	Drilling,	Ina				
DRILLING C	CNIKACIOR	·					·	
ADDRESS_			Drawer 40,	<u>Buckhanno</u>	n. WV	26201		
TELEPHONE_		304-47	72-4610				· .	
·								
GEOLOGICAL			Berea	· · · · · · · · · · · · · · · · · · ·				
DEPTH OF O		T-T-M	5260	FEE	SP C			
DATE DRILL			6/6/86					
DATE DRILL		***************************************	6/19/86					
DRILLING R	IG: ROIAF	X X	CABLE 1	OOL	/		•	
•								
GEOLOGICAL		Depth	Thicknes	5				
	Tc	p Botton	ì.					
Fresh Water	75, 24	0, 619, 9	27					
		•		-				
Salt water		•						
					•			
					MINING	IN ARE	EA	
			1	Vame	XXX N	O NOLINE	XXXXXX	
Coal Seams	288,94	530,34	927,30	2145,52				
	348,52	556,59	1131,34	2155,63				
	445,48	619,21	1552,56					
	-		•					
Oil				Formation				
•								
•				-				
				•				
						-	•	
Gas				Formation				
			•					
,	The data o	n depth c	of strata i	s based on	the so	ource(s	) checke	d
œlow:		·					,	-
	Χλαρlic	ant's own	drilling	experience	in the	area	•	
-			plied by t				area	
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-		(as follo	. 1	SUCCESSION O				
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Form 16 Appendix A, Sheet 2 (Obverse) API NO. 45- 051 - 20866

# CASING AND TUBING PROGRAM

### PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes X / No \_\_/ If Yes, was a coal protection string set to the red shales? Yes X / No \_\_/

	SIZE	'I'OP	BOTTOM	<u>P</u> LENGTH	ERFORATIONS FROM TO
CONDUCTOR:	16" 11 3/4"	0	19' 196'	19' 196'	
CASING CIRCULATED AND CEMENTED IN TO SURFACE:	8 5/8"	0	2203'	2203'	
COAL PROTECTION CASING SET UNDER SPECIAL RULE OF CODE OF VIRGINIA 45.1-334.B:					
OTHER CASING AND TUBING LEFT IN WELL;	4 1/2" 2 3/8"	0	5204 <sup>1</sup> 5065 <sup>1</sup>	5204 ' 5065 '	5082'-5147' 4572'-4597' 4376'-4380'

LINERS LEFT IN WELL UNDER CODE OF VIRGINIA SECTION 45.1-336 OR OTHERWISE:

PACKERS OR BRIDGE PLUGS: KIND SIZE SET AT

Butler-Larkin 4 1/2" X 2 3/8" 4518'

REMARKS: SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING; ETC.)

# SAMPLES AND CUTTINGS

WILL X	MITL NO.	BE VATITABLE FOR EXAMINATION BY Y WENDER OF THE
		VIRGINIA DIVISION OF MINERAL RESOURCES
WILL X	WILL NOI'	BE FURNISHED THE VIRGINIA DIVISION OF MINERAL
		RESOURCES UPON REQUEST
WILL	MILL NOT X	REQUIRE SACKS TO BE FURNISHED BY THE VIRGINIA
		DIVISION OF MINERAL RESOURCES.

Form 16
Appendix A, Sheet 1 (Reverse)
Continued from Obverse side

#### OTHER GENERAL INFORMATION

An electric log survey was \_\_/ was not\_\_\_/ conducted pursuant to Code of Virginia Section 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was  $\frac{x}{}$  was not \_\_\_ / run for other purposes. This survey did \_\_ / did not x / disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia Section 45.1-333.B.3.

Deviation surveys were  $\underline{x}$  / were not\_\_\_ / required under Code of Virginia Section 45.1-333.C "to the bottom of the lowest published coal seam depth."

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was \_\_\_/ was not X / required under Code of Virginia Section 45.1-333.C.

Note: If a continuous directional survey was required, the survey results are attached.

# CHANGES IN THE PERMITTED WELL WORK

The well operator did / did not  $^{\rm X}$  / make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

Note: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

# APPENDIX TO REPORT OF COMPLETION OF WELL WORK ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOVERY OF OIL OR INDICATIONS THEREOF	•
Indicated potential flow before stimulation KGravity and grade:	)D
DISCOVERY OF GAS OR INDICATIONS THEREOF	
Indicated potential flow before stimulation 0 MCRock pressure: psig hour test	₹Ų
RECORD OF STIMULATION	
Full description of stimulation:  Zone 1: Berea Formation  stimulated with 75 Q Foam using 90,000# sand, 1,000,000  SCF/N2 and 336 gals. 20% acid and 480 Bbls. fluid.  Perforated 5082-5147 # Perfs. 29 Perf. Size .50  Breakdown 1600 psig. Avg. Injection 2600 psig.  Avg. I.R. 19 BPM Init. S.I.P 200 cpsig 15 Min. S.I.P psig  Zone 2: Weir Formation  stimulated with 75 Q Foam using 30,000# sand, 500,000 SCF/	
stimulated with 75 Q Foam using 30,000# sand, 500,000 SCF/ and 336 gals. 28% acid and 210 Bbls. fluid. Perforated 4572-4597 # Perfs. 15 Perf. Size50	
Breakdown 1900 psig. Avg. Injection 1870 psig.	
Avg.I.R. 10 BPM Init. S.I.P.1500 psiq 15 Min. S.I.P psi	.g
Zone 3: Big Lime Formation stimualted with 2000 gals. 28% acid and 77,000 SCF/N2	
and 224 Bbls. fluid. Perforated 4376-4380 Perfs. 9 Perf. Size 50	
Breakdown 2500 psig. Avg. Injection 1975 psig.	
Avg.I.R. 14 BPM Init. S.I.P.1400 psig 15 Min. S.I.P psi	g
Final production ( ) natural (X) after stimulation	
BOD MCFD Tested Pressure Tested Zone 1:	
Zone 2:	
Zone 3:11 6 700 48	
Final production if gas zones are comingled: 730 MCFU	)
6 hours tested: 600 psig. 48 hours teste	d

Date:	State September 11,	County 1986	Permit
Orverat	or's Well W. F. Grizzle		20 1

VIRGINIA OIL AND GAS INSPECTOR 205 W. MAIN STREET ABINGDON, VA 24210 703-628-8115

# REPORT OF COMPLETION OF WELL WORK

Oil and Gas Act	the undersianed well are	Regulations under the Virginia erator reports completion of the the referenced well in Ervinton on 7 day, 8 month,	
WELL TYPE:	Disposal/ Ir "Gas", Storage/ Exempt by Code Section 4 and gas conservation law DrillX / Deepen/ Plug off old formation	nanced recovery / Waste Production X / Underground  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  15.1-300.B.l. from general oil  16.1-300.B.l. from general oil  17.1-300.B.l. from general oil  18.1-300.B.l.	
the type(s) of w	ork was done as shown in t ell work involved. STATUS UNDER CODE OF VIRO	the Appendix(es) applicable to SINIA SECTION 45.1-332.	
OR Two refe	erenced well was COMPLETED	of this report  19, the date on which the 0, the well being an explora- of Virginia Section 45.1-288.21.	
	APPLICANT:_ BY ITS ADDRESS TELEPHONE	Philadelphia Oil Company Brint Camp District Geologist 1101 N. Eastman Rd., Kingsport, TN 615-246-4332	37664

FORM 2 SHEET I (OBVERSE)

(FOR	OFFICE	API	Wel]	No.	45	<del>-</del>	
(USE	ONLY:				State	Count	y Permi

Date: 1-

-23

**19** 8.6

Operator's Well No.

P-201

VIRGINIA OIL AND GAS INSPECTOR
DEPARTMENT OF LABOR AND INDUSTRY
OIL AND GAS Section
205 W. Main Street
Abingdon, Virginia 24210
Phone 703 628-8115

NOTICE AND APPLICATION FOR A WELL WORK PERM

TO: ALL PERSONS LISTED
ON THE REVERSE HEREOF

Take notice that, pursuant to Code of Virginia § 45.1-313, the undersigned well operator proposes to file or has filed this Notice and Application for a Well Work Permit with the Virginia Oil and Gas Inspector under Code of Virginia § 45.1-311, with respect to a well on the W.F. Grizzle tract of 149.36 acres, more or less, in Ervinton District, Dickenson County, Virginia.

Attached is a copy of the well plat required to be filed with this Notice and Application. The Notice and Application show the well work that is to be done, and the well plat shows the location (or proposed location) of the well.

If the proposed well work is to drill a well, an operations plan is also attached. It shows the intended method of spoil placement, and contains a stabilization and drainage plan, including a map of the project area indicating the area to be disturbed. The drainage and stabilization plan meets the requirements of the current Virginia Erosion and Sediment Control Handbook adopted by the Virginia Soil and Water Conservation Commission pursuant to Code of Virginia § 21-89.4.

Under Code of Virginia  $\S$  45.1-313, you have the right to file objections to the proposed well work within 15 days after the day you receive this notice. Objections must be filed with--

Virginia Oil and Gas Inspector Department of Labor and Industry Oil and Gas Section 205 W. Main Street Abingdon, Virginia 24210

WELL OPERATOR	Philadelphia Oil Company	DESIGNATED AGENT	Charles Martin
	1101 N. Eastman Road		Box 313
Address	Kingsport, TN 37664	Address	Nora, VA 24272
Telephone	615-246-4332	Telephone	703-835-9134

FORM 2 APPENDIX A (OBVERSE)	•	(FOR OFFICE (USE ONLY:	API Well No.	45 - State Coun	ty Permit
			Date: 1-	23	, 19 <u>86</u>
			Operator's Well No	P-201	
APPENDIX TO NOTICE AND IF THE WELL WORK INVOLV		REDRILLING OR	DEEPENING		
Note: The data in this on Form 18 ("Repor				ta must be s	submitted
DRILLING CONTRACTOR (IF KNOWN)					
Address Telephone					
GEOLOGICAL TARGET FORMAT	TION <u>Ber</u>	ea Sand			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DEPTH OF COMPLETED WELL_	5119	feet (actual_	/ estimated	d <u>x</u> /)	
DRILLING RIG Rotary X	_/ Cable too	1/			
GEOLOGICAL DATA De Top	Bottom T	hickness			
Fresh water:	571				
Salt water:					
			Name	MINING I	Mined
Coal seams: 1058;	1062'			x	No
		·	Name		
Oil and gas:	4392 <b>'</b> 5141 <b>'</b>	Kee Dev	ner onian Shale		
					·
Informa	ant's own dri ation supplie ation already	is based on talling experiented by the coal	ce in the area operator in th	a he area	w:

# CASING AND TUBING PROGRAM

#### PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? YesX / NoX / If "Yes", will a coal protection string be set to the red shales? YesX / NoX /

PROGRAM DETAILS

# Conductor

11 3/4" 30' Casing circulated and cemented in to the surface:

8 5/8" 2111' Cement to surface

Coal protection casing set under the special rule of Code of Virginia § 45.1-334.B:

# Other casing and tubing left in the well:

4 1/2" production casing 5119' cemented through productive formation 2" production string 4959'

Other casing used in drilling but not left in the well:

N/A

FORM 2 SHEET 2 (0	BVERSE)	(FOR OFFICE (USE ONLY:	AP1 Well N	o State County Permit
			Date:	1-23- , 19 86
			Operator' Well No	s P-201
GENERAL	DESCRIPTION			
WELL TYPE:	Oil / Gas X/ H If "Gas", Production	Enhanced recover on_x/ Undergro	y/ Wasto ound storage	e disposal/ /
	Exempt by Code of Very general oil and gase of "No" submit map and boundary Exploratory well:	s conservation 1 showing unit bo	aw: Yes x	
LOCATION:	DISCITCE. HEVITED		Country.	Breeden Branch of Frying Dickenson Jest of Longitude:82015'00"
<pre>gas or othe tract / document, i</pre>	er purposes at the ab dated <u>July 25</u> f recorded, is recor of <u>Dickenson</u>	ove location und , 1972, to the ded in the office	der a deed_ undersigned ce of the C1	rate a well for oil and $\_/$ lease $_{\rm X}$ / other conwell operator from which erk of the County in $\_{\rm Deed}$ $\_{\rm Book}$ $\_{\rm 159}$
D P P	permit is requested rill × / Deepen / lug off old formation lug x / Replug / ther physical change	Redrill_/ S n_/ Perforate	new format	/ ion_x_/
Т	he well work is pland d other attachments.			and Application and
	OTHER 1	INFORMATION AND	SUBMISSIONS	
PERMIT FEE				
	Under Code of Virgini e amount of \$100.00,			
WELL PLAT				
	nder Code of Virginia plat (Form 6) accomp			t checked below applies
<u>x</u> Th	ne plat is new, under	Code of Virgin	ia § 45.1-31	2.C.1.
su	ne plat is a copy of abmitted on or after accessary, under Code	July I, 1982.	This copy ha	s been updated as

FORM 2 SHEET 2 (REVERSE)

OTHER INFORMATION AND SUBMISSIONS (continued)
WELL OPERATOR'S BOND
Under Code of Virginia $\S$ 45.1-311.D, the statement checked below applies to the well operator's bond:
A bond (Form 3 or Form 4) for this single well is submitted herewith.
A bond for this single well has heretofore been accepted in connection with a well work application filed, 19
Under Code of Virginia § 45.1-311.D.2, a blanket bond (Form 3 or Form 4) is submitted herewith, for all of applicant's wells. The amount was cleared by the Inspector, subject to final approval hereby requested.
Winder Code of Virginia § 45.1-311.D.2, a blanket bond for all of applicant's wells has heretofore been accepted by the Inspector on or about February 4 , 19 83.
OPERATIONS PLAN
Under Code of Virginia § 45.1-311.E, if this application is for a well work permit to drill, an operations plan accompanies the application.
REQUEST FOR PERMIT IN LESS THAN 15 DAYS
Applicant does / does not $_{\rm X}$ / request a permit before the end of the 15-day notice provision under Code of Virginia § 45.1-313.E.2.
Applicant: Philadelphia Oil Company
By H. E. Galdner
Its <u>Vice President &amp; General Manager</u>
VERIFICATION
STATE OF Tennessee ; COUNTY OF Sullivan :
On this 2009 day of January 1986, personally before me, a Notary Public in and for the County and State aforesaid, appeared who.
being first duly sworn, did depose and say that he is Vice Created to Leave Manager of Madelphia On Company , the applicant in the foregoing Notice and Application for a Well Work Permit and related Appendix (if any) and other accompanying documents; that he executed the same on behalf of the applicant, and was authorized to do so; and that the information set forth therein is true and correct to the best of his knowledge and belief.
Lande Mianon
Notary Public

Philadelphia Oil Company 1101 N. Eastman Rd. Kingsport, TN 37664

#### Operations Plan - Well No. P-201

(1) PHILADELPHIA OIL COMPANY proposes to drill Well No. P-201 situated on Breeden Branch of Fryingpan Creek in Dickenson County, Virginia. A rotary rig will be used to drill this well requiring approximately fourteen (14) days to drill to a total depth. Approximately thirty (30) days after the well has been drilled cable tool spudder will be moved onto the location to fracture and complete the well. The casing program is as follows:

Casing Size	Depth	Remarks
11-3/4" 8-5/8"	30' 2111'	Case off fresh water. Set in top of Red Rock and cemented to
4-1/2"	5119'	surface to contain all possible formation water and protect all coal seams. Production casing to be set at total depth and
4-1/2	3119	cemented through gas bearing formations.
2"	49591	Production string.

- (2) Site preparation is expected to begin May 1, 1986, and final well completion is expected August 5, 1986. Reclamation is expected to be completed by October 10, 1986.
- (3) Soils are of the loam to silt type, medium depth, with no erosion problems anticipated. Timber is of the Hickory-Poplar forest type with all ages class stand predominate in a small portion of the project area. The well site will be constructed on a bench with an approximate 5° slope and the pit area will be constructed on a bench with an approximate 5° slope. An existing road will be improved to gain access to the drill site. Pipe culverts will be installed along the access road to provide proper drainage. Cut and fill areas along the constructed road will be sown with Ky. 31 Fescue and Ryegrass to stabalize the affected areas and prevent erosion. The entire project area comprising of 1.49 acres.
- (4) Any vegatation in the well site and pit areas will be cleared after grading operations are complete the fill areas will be sown immediately to prevent erosion. (Pit  $100 \times 75$ ) (Auxillary Pit  $100 \times 75$ ) (Well Site  $100 \times 200$ ).
- (5) Upon completion of well and pipeline operations pit areas will be filled and covered with adequate top soil and entire project area will be graded and seeded with approximately 200 pounds of Ryegrass, Clover and Ky. 31 Fescue, and six bales of straw to be used as mulch in critical areas to stabalize the areas and prevent erosion.

## SUPPLEMENTAL SHEET FOR PERSONS RECEIVING OFFICIAL NOTICE OF WELL WORK APPLICATION

IF THE WELL WORK IS DRILLING, REDRILLING, DEEPENING, PLUGGING OR REPLUGGING:

Surface owner(s) at the well location site:

Tilden R. Rasnick Rt. 2, Box 169B Clintwood, VA 24228 Mozelle Steffey Clintwood, VA 24228

Marjorie Anderson Rt. 3, Box 165 Clintwood, VA 24228

Essie Stallard Rt. 2, Box 1867 Palakta, FL 32077

Surface owner (s) of neighboring tract(s) within 500 feet of the well:

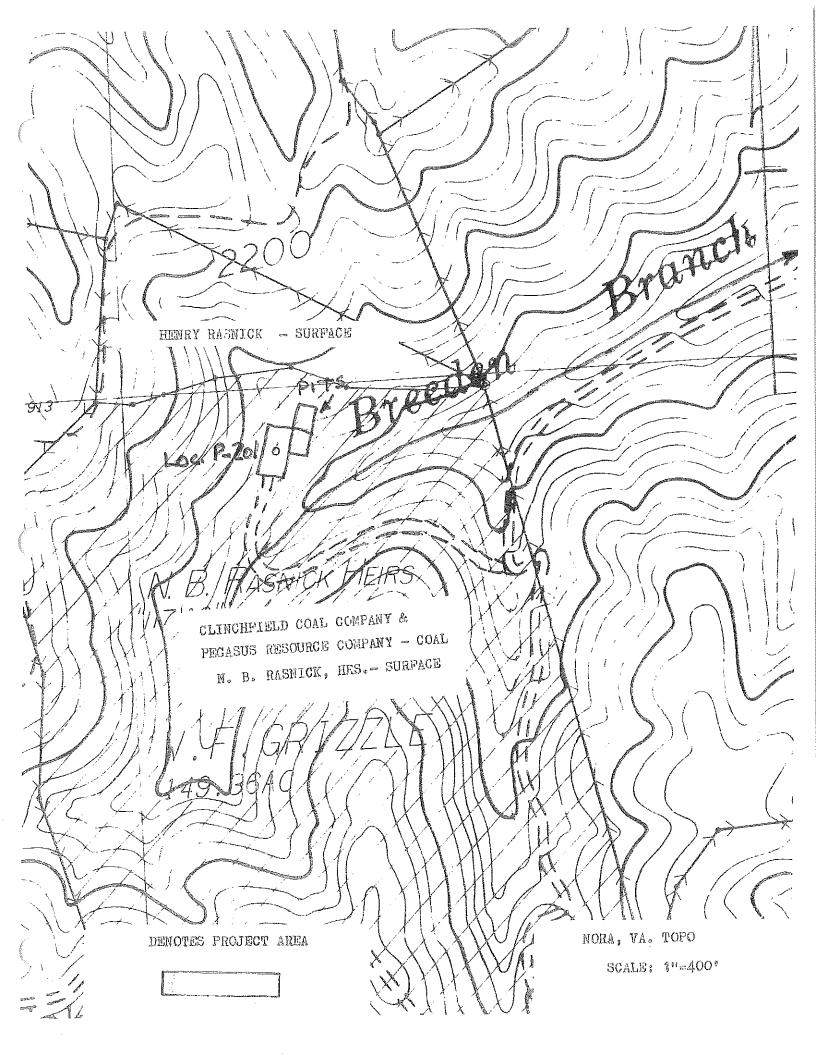
Henry Rasnick Box 372 Haysi, VA 25425

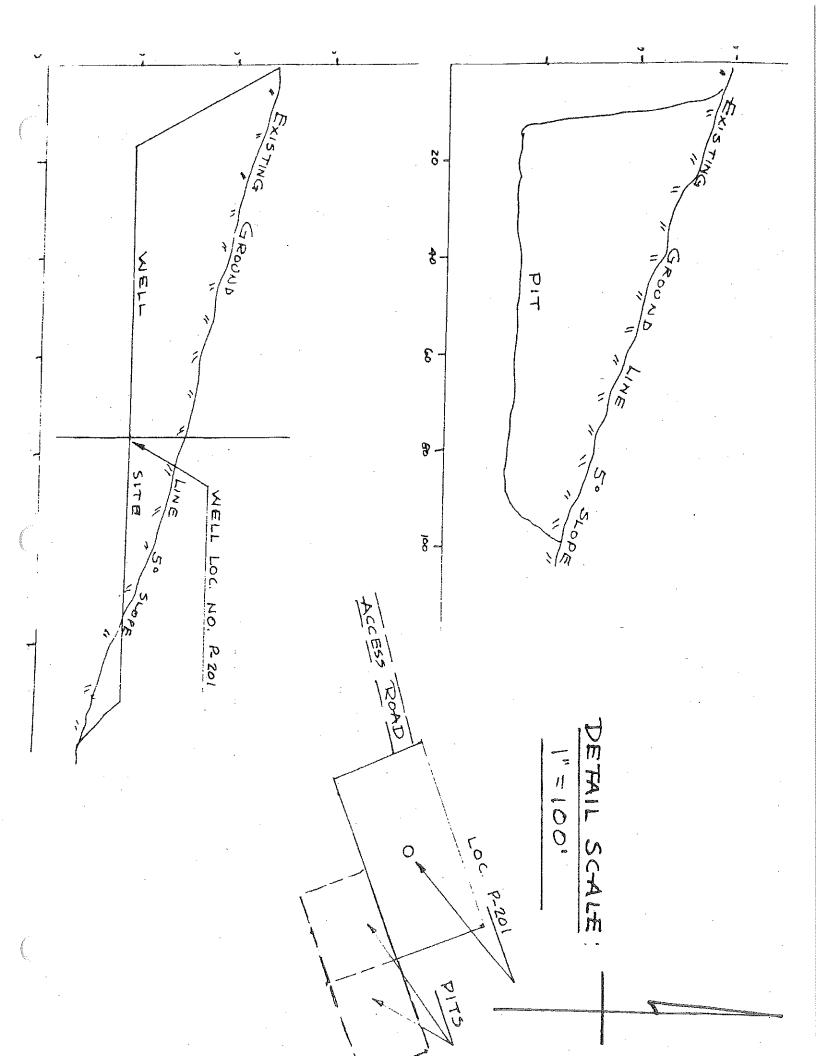
Oil and gas royalty owner(s) of the lease or drilling unit:

Pine Mountain Oil and Gas Company c/o Mr. Allen B. Kiser, Manager P.O. Box 7 Dante, VA 24237

Coal and other mineral owner(s), lease(s) and operator(s) at the well location site, and on neighboring tracts within 500 feet of the well:

Pegasus Resource Company c/o Mr. Larry Cline, Property Manager Rocky Top Development, Inc. P.O. Box 1357 Abingdon, VA 24210 Clinchfield Coal Company c/o Mr. Paul Guill, Chief Engineer P.O. Box 7 Dante, VA 24237





# P 311 323 077

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# PROOF OF NOTICE OF WELL WORK APPLICATION

# X Certified mail return receipt(s) for the following person(s):

Pegasus Resource Company
c/o Mr. Larry Cline, Property Manager
Rocky Top Development, Inc.
Abingdon, VA 24210
Pine Mountain Oil and Gas Company
c/o Mr. Allen B. Kiser, Manager
P.O. Box 7
Dante, VA 24237
Tilden R. Rasnick
Rt. 2, Box 169B
Clintwood, VA 24228
Mozelle Steffey
Clintwood, VA 24228

Clinchfield Coal Company c/o Mr. Paul Guill, Chief Engineer P.O. Box 7 Dante, VA 24237 Marjorie Anderson Rt. 3, Box 165 Clintwood, VA 24228

Essie Stallard Rt. 2, Box 1867 Palakta, FL 32077 Henry Rasnick Box 372 Haysi, VA 25425

Newspaper page or facsimile (or affidavit of publication) showing Notice by Publication (Form 6) for the following person(s):

WELL OPERATOR: Philadelphia Oil Company

1101 N. Eastman Rd.

Kingsport, TN 37664

Telephone: (615) 246-4332

(SUBMIT SUPPLEMENTAL SHEETS IF THE SPACE ABOVE IS NOT SUFFICIENT)

Ratitable Resources Exploration A Division of

Opensias Base Beritab le Resources Energy Com Persis /: 866 (P-201)

Department of Mass. Massals and Pastry Division of Gas and Oil



Department of Mines, Minerals and Party Division of Cas and Oil P. O. Box 1416 Abingion, Virginia 24210 703/676-5423



#### APPLICATION FOR MISTOSAL OF PLI OR PRODUCTO PLIUDS

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- A. X Approval to transport and dispose of pit at produced fluids through an approved disposal site, which accepts pit: produced fluids from gas and oil operations.
- B. \_\_\_\_ Approval for a one time application of pit finide on the permitted site. March 1975 A 1985 A 1985

For applications under A, the permittee is required to submit the following with this application.

- 1. Submit the appropriate federal, state, and/or local permit number of the facility the permittee is proposing to dispoof the fluids under.
- 2. Attach a copy of the appropriate sections of the permit, which allows acceptance of fluid waste from the gas and o operations.
- 3. Submit the total estimated volume of fluid to be transported.

#### ATTACHED 588

For applications under B, the permittee must complete the following information with the appropriate documentation with the application.

A. Mr Muid Characterization:

Date Pir was First Used	Estimated Volume	of Mit Flaid (Gals.)
Description of the Constituents of the f	luid placed in Pit	

Crandand Timica

B. Analysis of the Mr Muid:

4--1---

ALLEA Y B L B	
PB	6-9 Standard Unite
Oil and Grease	< 15 w/l
Litte	< 7 mg/l
Menganese	< 4 mg/1.
Acidity	< alkalimity
Alkalniny	> acidity
Chlorides	5.000 mg/1 *
Sodium Balance	SAR of 8-12 99

- \* For chlorides above 5,000 mg/1, the application will be reviewed to determine whether a permit would be required for the Virginia Water Control Board.
- \*\* The Soding Absorption Eate shall be determined on the soils to which the liquid is to be applied.

Form DCO-CO-16 ing 9/91

1 of 2

Equitable Resources Explorat Equitable Resources Francy () Operations Name: Department of Hines, Minerals and Inergy Persels 1: 866 Division of Cas and Oil C. Verification of Analysis: Artisch the lab enalysis and its results. Denote on the artischment the date, time, and method of collection and the of the malysis. D. Description of Application Area: Soil Permandility \_\_\_\_\_ Depth to Sedrock \_\_\_\_\_ Depth to Water Table \_\_\_\_ Sail. Type Searest Water Supply \_\_\_\_\_ Type: Well \_\_ Spring \_\_ Measure Surface Water Courses \_\_\_\_ Bearest Occupied Dwalling Total Acresge of Proposed Application Area \_\_\_\_\_ Average slope of the proposed area of land application E. Locarios and Darige Hap: A map on the scale of 1°0 400° showing the acrosps within the persitted size to used for land application identi all surface waters, wells, springs, estaral rock enterops and property lines in relation to the proposed area o application. The may shall also delinears may beffer some. F. Herhod of Land Application: Provide a carractive, describing the method in which you plan to land apply the pit fluids. The description include supporting calculations and other data to justify the flow rates, erosion controls and monitoring to used the application of the pit fluids. The narrative shall include supporting sits measurements and other data conce the noninterference to the groundwater within and adjacent to the land application and supporting site seasuremen other data concerning the protection of the existing vegetation. CERTIFICATION: I the undersigned applicant or permittee, certify that this document and all attachments were prepared under my dire The information submitted is, to the best of my knowledge, true, accurate, and complete. (Title) Operations Manager - Va/ (Date) October 15. 1993 (FOR OFFICE USE ONLY: (Approved \_\_\_\_\_ Denied \_\_\_\_ (State Gas and Oll Inspector

# ATTACHMENT TO

# APPLICATION FOR DISPOSAL OF PIT OR PRODUCED FLUIDS

#### PART A Submittal:

- 1. The coalbed methane and/or convention wells and/or pipeline fluids will be disposed of utilizing UIC permitted wells P-148-WD, KYI-0507, KYI-0508 and KYI-0222.
- 2. The appropriate sections of UIC disposal permits for P-148-WD Well, KYI-0507 Well, KYI-0508, Well and the Magnum KYI-0222 Well are all separately filed with the Division of Gas and Oil in Abingdon, VA.
- 3. Equitable Resources Exploration will report produced fluid volumes in the monthly VA DGO production report. The volumes os fluid hauled will be tracked by Equitable Resources Exploration as required by DGO, and the tracking records will be available to DGO upon request.

CBM - Nora Field DPT/ 9-27-93

# Buitable Resources Exploration

Personal In 875

A Division of Furitable Resources Energy Comp (P-216)

Department of Mines, Minerals and Energy Division of Gas and Cil



Department of Hines, Hiserals and Energy Division of Gas and Oil F. O. Box 1416 Abdagdon, Virginia 24210 703/676-5423



# APPLICATION FOR STEPONAL OF PIT OR PRODUCED MUIDS

ruz stanı	ae to VR 480-05-22.1	, 8 1.42, the undersign	ed permittee re	dreagn:			
<b>A</b> .		transport and dispose		ed flads the	eugh sa approved	disposal sita,	which socopes pie
		de from gas and edl oper					
B.		a one time application		a the permitte	d sire.		or <del>i</del> ti t
۶.		of the second second		يائيس والاستهداد			STATE STATE
		**					•
tox spi	plications under A.	the permittee is require	ed to sabelt th	a following wi	th this applicati		-i 2 - i - : : -
1.	. Submit the appr	opriste federal, state,	and/or local p	eredt number o	f the facility th	un parmittes is	proposing to disp
	of the fluids und						
2.	. Attach a copy o	f the appropriate sec	edoms of the p	eratt, which a	llows acceptance	of floid waste	from the gas sad o
	operations.						
3.	. Submit the total	escinated volume of flui	гч со ре спятав	orted.			
	5	EL ATTACHED					
OF RO	plications under B.	the permittee must compl	lere the follow	iog information	a with the appr	opriete docum	estation with th
pplic	•			•		•	
			•				
. Å.	. He Muid Charact	erisacion:					
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		he Constituents of the				•	
	•						
В.	. Analysis of the P	Le Fluid:					
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	<b>7</b>		•	6-9 Standard	Units		
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	Lros			< 7 mg/l			
	Hanganosa			< 4 mg/l		•	
	Anidima			< alkalinire			

\* For chloridas above 5,000 mg/l, the application will be reviewed to determine whether a permit would be required for the Virginia Water Control Board.

> acidity 5,000 mg/l @

SAR of 8-12 --

The Soding Absorption Rate shall be detarmined on the soils to which the liquid is to be applied.

Form 000-00-16 Rev 9/91

Alkalniry

Chlorides

Section Balance

1 of Z

Department of Mines, Minerals and Restry

Equitable Resources Explorar A Division of Equitable Resources Energy C

Marries	of Gas and CHl Fermit #:	875	(P-216)	
c.	Verification of Analysis:			
	Actuals the lab analysis and its results. Denote on the attachment the dat of the analysis.	6, 번호,	est sethod of ca	llection and t
D.	Description of Application Area:		- :	٠
	Soil Type Soil Fernesbility Depth to Bedroot		_ pebry 20 geres	Sable
	Secrest Vater Supply Type: Vell Spring Secrest Sec	face Wate	r Centsee	
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	A map on the scale of I"- 400' showing the screege within the parelless of	Les es we	of for less small	learion (dans
	all surface waters, wells, springs, satural rock outcrops and property			
	application. The wap shall also delinears say buffer speed.		• • •	75.
P.	Hethod of Land Application:			-
	the nominterference to the groundwater within and adjacent to the land apother data concerning the protection of the existing vegetation.	•	•	
CERTIFICA	TION:			
	e undersigned applicant or permittee, certify that this document and all at mation submitted is, to the best of my knowledge, thus, according, and compl		ests prepared t	ınder my dire
	(Signature) Douglas	Λ	Luy	
	(Tiele) Operations h	hager	- Val.	
	(Date) October 15.	1993		
(FOR OFFI	TE USE ONLY:			
	1/ Booked			

(State Cas and Oil Inspector

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CBM - Nora Field DPT/ 9-27-93



O. GENE DISHNER
DIRECTOR

# COMMONWEALTH of VIRGINIA

Department of Mines, Minerals, and Energy
Division of Mines
219 Wood Avenue
Big Stone, Virginia 24219-2799
(703) 523-0335
Harry D. Childress, Chief

Reply To:Oil and Gas Section P. O. Box 1416 Abingdon, Virginia 24210 Telephone: (703) 628-8115

February 3, 1986

Mr. Mike Dovel
Regional Geologist
Virginia Water Control Board
P. O. Box 888
Abingdon, VA 24210

Dear Mr. Dovel:

Enclosed please find copies of well work permit applications submitted to this office on this date from Philadelphia Oil Company for wells P-201, P-202 and P-206 and proposed for Dickenson County, Virginia.

Should you have any comments concerning these applications, please submit them to this office no later than February 13, 1986.

If you have any questions, do not hesitate to call.

Sincerely,

James A. Henderson, Jr. Virginia Oil & Gas Inspector

DJD

Encs.



O. GENE DISHNER DIRECTOR

## COMMONWEALTH of VIRGINIA

Department of Mines, Minerals, and Energy
Division of Mines
219 Wood Avenue
Big Stone, Virginia 24219-2799
(703) 523-0335
Harry D. Childress, Chief

Reply To:Oil and Gas Section P. O. Box 1416 Abingdon, Virginia 24210 Telephone: (703) 628-8116

February 18, 1986

Mr. Randell Stallard Building Inspector Drawer 1 Clintwood, VA 24228

Dear Mr. Stallard:

Enclosed you will please find information sheets on wells which have been issued drilling permits on this date.

Should you have any questions concerning the contents of these sheets, do not hesitate to call.

Sincerely,

James A. Henderson, Jr.

Virginia Oil & Gas Inspector

DJD

Encs.

cc: Mr. David Hancock, Petroleum Information

Mr. Charles Baker, Lonesome Pine SWCD



### COMMONWEALTH of VIRGINIA

Department of Mines, Minerals, and Energy
Division of Mines
219 Wood Avenue
Big Stone, Virginia 24219-2799
(703) 523-0335

Harry D. Childress, Chief

Reply To:Oil and Gas Section P. O. Box 1416 Abingdon, Virginia 24210 Telephone: (703) 628-8115

February 18, 1986

Mr. Don Hall Philadelphia Oil Company P. O. Box 313 Nora, VA 24272

Dear Don:

Enclosed please find permits numbered 866, 867 and 868 for wells P-201, P-202 and P-206, respectively.

These permits are being issued with the following conditions:

- Only potable water shall be used in the drilling operations until the water protection string is properly cemented
- All pits shall be lined with a material of sufficient size and strength to contain all expected fluids

If you should have any questions, do not hesitate to call.

Sincerely,

James A. Henderson, Jr.

Virginia Oil & Gas Inspector

DJD

Encs.

cc: PECO, Kingsport, Tennessee

# PINE MOUNTAIN Oil and Gas Company



P.O. Box 7 Dante, Virginia 24237

A Division Of The Pittston Company

703-495-8700

January 21, 1986

Mr. B. C. Spradlin Manager of Plans and Surveys Kentucky-West Virginia Gas Company Box 431 Prestonsburg, Kentucky 41653

Re.: Proposed Location of Gas Well No. P-201

Dear Mr. Spradlin:

The above well location has been reviewed regarding coal mining and production as provided in the lease.

Please be advised that the location has been approved as proposed in your letter of January 15, 1986, provided the well is drilled within twenty-four (24) months from today's date. Consider this approval withdrawn if the well is not drilled within this time.

Sincerely,

allen B. Kiser RB

Allen B. Kiser Manager of Operations Pine Mountain Oil and Gas Company

ABK:sj

c: Paul Guill Larry Cline Don Hall

#### 22 December 1986

Mr. Milfred Stern Assistant Oil and Gas Inspector P. O. Box 144 Abingdon, Virginia 24210

Re: <u>Tilden B. Rasnick, et al - Dickenson County, Virginia</u> Philadelphia Well No. 201

Dear Milfred:

Thanks very much for your time today in explaining the situation concerning the access in to the well. My clients would be very willing to provide the old Clinchfield access in and to the well, and sign and execute whatever documents are necessary; however, they have objected to the arbitrary treatment, as well as taking a completely different area in and to the well.

I understand you will advise me next week; if I do not hear from you by Tuesday or so, then I will call you.

Again, thanks very much for your help.

All best personal regards,

w. R. McCili

WRMcC:bh



PHILADELPHIA OIL COMPANY 1101 N. Eastman Rd. Kingsport, TN 37664



Oil and Gas Inspector Division of Mines & Quarries Oil and Gas Section P.O. Box 1416 Abingdon, VA 24210

> Re: Permit to Drill Well No. P-201 Philadelphia Oil Company Lease No. PO-148 (T-296)

Gentlemen:

We submit herewith Philadelphia Oil Company's application for permit to drill a well for oil and/or gas upon the tract of land described therein.

Agent's Check No. 362 in the amount of One Hundred Dollars (\$100.00), payable to Treasurer of Virginia is attached, said sum being payment of well permit fee.

Yours very truly,

H. E. Gardner, Vice President and General Manager

HEG/gjw Enclosures

cc: Mr. Don C. Hall Mr. Brint Camp



## EQUITABLE RESOURCES EXPLORATION A Division of EQUITABLE RESOURCES ENERGY COMPANY

.

P. O. Box 313 Nora, VA 24272

October 15, 1993



B. T. Fulmer Oil and Gas Inspector Division of Gas and Oil P.O. Box 1416 Abingdon, VA 24210

RE: DGO Permit No. 866 (P-201)

Dear Mr. Fulmer:

Enclosed please find an application for produced fluid disposal for the above Equitable Resources Exploration operated conventional well located in the Nora Field.

Should you have any questions, please feel free to contact me at Phone # 1-703-835-9134.

Sincerely,

Douglas P. Terry

Operations Manager-VA

Certified RRR Enclosures

CC: Well Files

Lee Talbott

Don Hall

PC: CBM-haul.1

APPROVE

DATE



#### **EQUITABLE RESOURCES EXPLORATION**

A Division of EQUITABLE RESOURCES ENERGY COMPANY

P. O. Box 313 Nora, VA 24272

October 18, 1993

B. T. Fulmer Oil and Gas Inspector Division of Gas and Oil P.O. Box 1416 Abingdon, VA 24210



RE: DGO Permit No. 875 (P-216)

Dear Mr. Fulmer:

Enclosed please find an application for produced fluid disposal for the above Equitable Resources Exploration operated conventional well located in the Nora Field.

Should you have any questions, please feel free to contact me at Phone # 1-703-835-9134.

Sincerely,

Douglas P. Terry Operations Manager-VA

Certified RRR Enclosures

CC: Well Files

Lee Talbott Don Hall

PC: CBM-haul.1

APPROVED

BY B. J. Bulyur

Virginia Gas and Oil Inspector

DATE 11/1/93

## ABINGDON, VIRGINIA 24210

INSPECTION REPORT

COMPANY ERCX	PILE 1 01 -266
WELL 12-201	TIME 3'5 DATE 9-4-90
COUNTY O	INSPECTOR MIS

COUNTY O	INSPECTOR MJS
SITE INSPECTION	. TYPE OF INSPECTION
	PRE-APPLICATION 0
PRE-PERMIT:  PLAN ACCEPTABLE LOCATION CORRECT DRAINAGE CONTROLLED SEDIMENTATION CONTROL	LED PRE-PERMIT I
•	DRILLING 2
COMMENTS	COMPLETION 3
	PRODUCING 4
SITE CONDITION:	PLUGGED 5
DRAINAGE ONTROL BACKFILLED TRASE	AERIAL 6
DRAINAGE CONTROL BACKFILLED TRASE NO SEDIMENT CONTROL SUBSIDENCE NO SIGN	
SEDIHENT CONTROL SUBSIDENCE NO SIGN OMMENTS PEEL AS MOK	
COMMENTS / SERVING A	SHUT-IN 8
	CONSTRUCTION 9
PIT CONDITION:	OTHER 10
APPROXIMATE SIZE PLASTIC LINED BACKPULED STABILITY O	RE-INSPECTION 11
COMMENTS	RECORD 12
	RECLAIHING 13
ROAD CONDITION:	PIPELINE
GRADE: STEEP HODERATE FLAT GRAVEL ROGINGING	PRE-PERHIT 14
CONSTRUCTS	CONSTRUCTION 15
WILLIAM	OPERATION 16
AMOTERIANO THE	RE-INSPECTION 17
PIPELINE CONDITION: SIZESURPACEBURIEDLENGTH (INSPECTED)	COMPLAINT 18
CONTENTS	ACTION OF INSPECTOR
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RIG AND WELL INSPECTION	· · · · · · · · · · · · · · · · · · ·
TYPE: ROTARY CABLE TOOL WORKOVER COMPANY NO JELG	POTENTIAL PROBLEM 2
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DEPTH DEVIATION DEGREES AT FRET CASING IN HOLE	
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	VIOLATION CANCELLED 7
	CONSULTATION 8
EQUIPMENT	PLAN HOT APPROVED 9
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CASING IN HOLE 1/2 DYKES 6-B	POLLOR-UP
FOURTHER SOUTH PAIN TOUR NO	NONE 0
	CONTACT COMPANY 1
COMMINTS	CONTACT COMPLAINANT 2
	RE-INSPECTION NECESSARY 3.
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ACTIONS OF INSPECTOR	
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COMPANY NOTIFIED	
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July 1	50 CHARACTERS) /
I vily or officer	•
INSPECTOR /	ON COMPUTER V
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#### INSPECTION REPORT

COMPANY EKEX	FILE NUMBER	
WELL NAME/NUMBER P-ZOI		_ DATE _ 3+30-89
DUMTY DICKENSON	INSPECTOR <u>MJS</u>	
SITE INSPECTION		TYPE OF INSPECTION
PRE-PERMIT:		PRE-APPLICATION 0
PLAN ACCEPTABLE LOCATION CO	VRECT	PRE-PERNIT
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COMPETTS RCCIPIE OLE		SHUT-IN' 8
PIT CONDITION:		CONSTRUCTION 9
APPROXIMATE SIZE BACKFILLED _		OTHER 10
PLASTIC LINED STABILITY		RE-INSPECTION 11
COMMENTS		RECORD 12
ROAD CONDITION:		PIPELINE
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convents need to recut water bar		OPERATION 15
COMPERIS TO SO AD ACCOUNT MATERIAL	-3	RE-INSPECTION 16
		COMPLAINT 17
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COMMENTS		POTENTIAL PROBLEM (2)
		VIOLATION ISSUED
		OPERATIONS HALLTED 4
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PILE NUMBER DI - 266

#### INSPECTION REPORT

DATE 12-23-86	COMPANY POC
TIME 1200 PM	WELL NAME/MUMBER P-ZO/
INSPECTOR MUS	COUNTY PICKENSON
DRILLING STIMULATING PLUGGING	PRODUCING X PLUGGED OTHER
PENI STIB	ECTION
PIT CONDITION:	`
Earthen Approximate Size	Backfilled L
Plastic Lined Stability	
Comments	
SITE CONDITION:	
Drainage 6.000	Backfilled
Drainage Control No	Submidence NO
Sediment Control NO	
Temporary Seeding NO	
Comments	
ROAD CONDITION:	
GRADS: Plat Koderate	
Gravel	
RIG INSPECTI	on การ การ การ การ การ การ การ การ การ การ
YPE: Rotary Cable Tool Workov	er
efety Equipment: Hard HataB	lowout Equipment
Hard Toes Pi	re Extinguishers NORIG
Work Area	,,,,,,,,
Comments	
WELL PROGRESS	
Depth Casir	ng In Hole 41/2"
Daviation at	
Number of Workmen on rig Tool P	usher
Comments	
BQUIPMENT	mit and a second
	nuipment OKIN + Meter
	77.
	kos - N/A
	ake/D
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Section or Regulation Cited	Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie
Company Notified	
Violation Issued_	Posted
Comments	
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Date:	ю- I	, 17 00
Operator's Well No.	P-201	
INSPECTOR		
Industry		
tion		
oet		

VIRGINIA OIL AND GAS INSPECTOR
Department of Labor & Industry
Oil and Gas Section
205 W. Main Street
Abingdon, Virginia 24210
Phone 703 628-8115

#### CERTIFICATION OF LOCATION OF A NEW WELL

I, the undersigned, hereby certify that I am familiar with the well plat showing the permitted location of the new well authorized by Permit No. Slob and that the well has been drilled in complicance with the standard of Regulation 4.02 of the Regulations promulgated pursuant to the Virginia Oil and Gas Act, as follows:

<u>V</u>	within three feet of the location as permitted in an area underlain by known coal seams identified by the Chief of 36
	the Division of Mines pursuant to Code
	of Virginia \$ 45.1-333, or
	within ten feet of the location permitted
	other areas.

Marlie Marlie Authorized Agent

APPROVED		•	•	=	
				·	 
TITLE	•				 
DATE	•				 

Company POC			Date 2	16/86
Well Number P- 20,	/		Time	PM
County OICKENS			Inspector_	MJ5
Is hole staked?				
Is location correct?				
•				
Were offsets/backsights	s/alignment points i	ound as indicate	d on the p	lat?
Condition of the site:	Undistrubed			
	Cleared			•
	Graded			
7	Pir(s) dug			

Comments/Recommendation:

#### PERMIT INFORMATION

Company Name	Philadelphia Oil Company		
Well Name	P-201		
File Number			
	45-051-20866		
Permit Number	866		
Farm Name _	W. F. Grizzle		
Date of Permi	t 2-18-86		
District	Ervinton	_	
Quadrangle	Nora	_	
Latitude 9,	260 ' South of <u>37</u> ° <u>07</u>	_'_	30
Longitude 2,	320 'West of 82 ° 15	'	00
Surface Elevat	tion 1,908.84		
Projected Dept	th 5,119		
Target Formati	ion Berea		<b>-</b> .
County	Dickenson		
Jurisdictional	L		

#### January 13, 1986

Mr. Paul Guill, Chief Engineer Clinchfield Coal Company P.O. Box 7 Dante, VA 24237

Pegasus Resource Company c/o Mr. Larry Cline, Property Mgr. Rocky Top Development, Inc. P.O. Box 1357 Abingdon, VA 24210

Mr. Allen B. Kiser, Mgr. Pine Mountain Oil and Gas Company P.O. Box 7
Dante, VA 24237

RE: PHILADELPHIA OIL COMPANY - WELL NO. P-201

#### Gentlemen:

Attached is a plat showing proposed Well Location No. P-201 upon Philadelphia Oil Company Lease No. PO-148 (T-296), W. F. Grizzle 149.36 acres situated on Breeden Branch of Fryingpan Creek, Dickenson County, Virginia.

The elevation of the proposed well location is 1908.84 feet above sea level and the coordinates are: S. 252.087; E. 36626.407.

We propose to install approximately 2111 feet of 8-5/8 inch casing in the well to be cemented to the surface to protect unoperated coal and surface water.

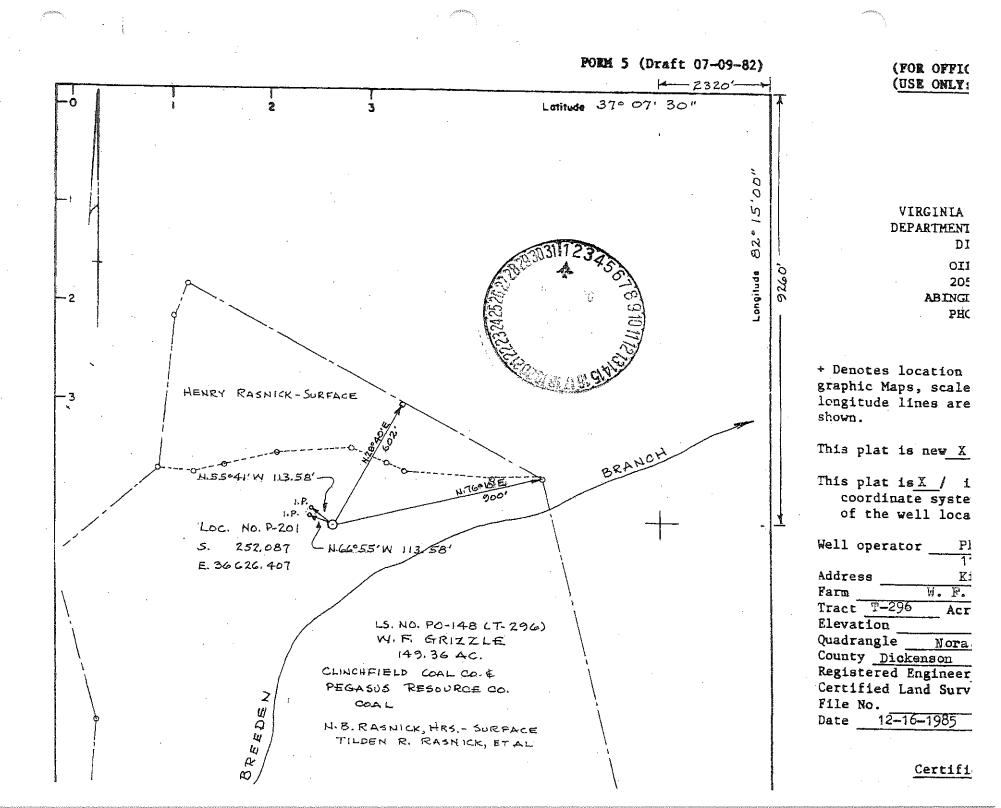
This location was tentatively approved by the above-mentioned companies recently, designated as No. 85-35.

Please notify me by mail at your earliest convenience as to whether there will be any objections to this location as proposed.

Sincerely,

B. C. Spradlin, Manager of Plans & Surveys Kentucky West Virginia Gas Company P.O. Box 431 Prestonsburg, KY 41653

cc: Don C. Hall, Philadelphia Oil Company



### DRILLER'S LOG

Compiled by Brint Camp

Geolo gocal	General	*	h (feet)	
Λge	Formation Lithology	Color Top	Botton	Thickness Remarks
Pennsylvanian	Sand & Shale	. 0	2667	2667
Mississippian	Ravencliff	2667	2824	157
. "	Little Stone Gap	2824	2884	60
11	Shale	2884	2968	84
11	Maxon Sands	2968	3622	654
. 11	Shale	3622	3756	134
11'	Little Lime	3756	3832	76
11	Lime & Shale	3832	3950	118
"	Big Lime	3950	4390	440
**	Keener	4390	4400	10
.11	Weir	4400	5004	604
**	Coffee Shale	5004	5076	72
11	Berea	5076	5150	74
Prvonian	Brown Shale	5150	5260	110

Complete on supplemental sheet as necessary

#### DIRECTIONAL SURVEY

## <u>P-201</u>

Depth		Degree
261		3/4
400		1/4
601		1/4
820		1/4
1008		1 3/4
1229		1
14 15		1/2
1600		2
1786	•	1 1/2
2005		2
1995		1 1/4
2224		1:1/4