

# Jonathan Lawley

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## Expertise

- Modelling
  - Hindcasting & forecasting drilling, tripping & casing scenarios specific to extended reach operations & edge of envelope applications.
  - Utilizing offset, equipment, tubular, geological (MEM) data to estimate mechanical & hydraulic constraints of potential projects.
  - Running scenarios with various equipment, fluids & operating modifications to extend operating windows in terms of depth, reach, etc.
  - Road-mapping mechanical & hydraulics loads prior to execution. Making recommendations critical to hole integrity, tubular limits, and nuances of various operating procedures during planning and execution phases.
- Under-balanced & MPD operations; drilling, tripping, casing and cementing.
- Troubleshooting; well control scenarios during all phases of well construction, stuck pipe, fishing, and all 3 simultaneously. Plugs, whipstocks, liners, sleeves & packers, etc.
- Extensive field experience
  - Each rig hand position
  - Fluids technician & directional drilling (S-wells & curves/laterals/lateral turns)
- Drillsite manager & multiple rig field supervision
- Project planning & drilling engineering

## Work Experience (Contract/1099 since June 2013)

### Merlin ERD Ltd

July 2019 – Current

#### Contract Drilling Advisor

- Hilcorp
  - Drilling feasibility & geomechanics study lead engineer for Liberty project, 40k-50k ft. wells
    - K&M ERA software; hole & casing design
    - Mechanical earth modelling
    - Rig build specs; RFP & design/build process, costs & timeline
  - Point Thomson Exxon project engineer
  - Steelhead drilling engineer (Cook inlet platform)
  - Yukon Basin & Iniskin exploratory project lead
    - Develop plan to drill remote wells with barge & air support
    - Lead RFP & design process for heli-portable drilling rig
- Pan American Energy
  - Deepest and fastest Vaca Muerta well; beating program by ~15 days.

**Anchorage, AK  
USA**

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## **Jonathan Lawley**

- Provided remote engineering support using TDH software to assist Pan American Energy in lateral extension to 3000m in Vaca Muerta formation, Argentina.
- Provide onsite support; coaching drillers on auto-driller on-bottom practices, stall procedures, modified procedures, optimization, MPD, etc.
- Maersk Training
  - Taught ERD class w/simulator exercises to Transocean crews for Woodside Senegal ERD campaign

### **Global Drilling Partners**.....**January 2020 – Current** **Contract Drilling Advisor**

- Provided onsite technical support for extended reach dual lateral project in Colombia

### **Dominion Energy**.....**November 2022 – July 2023** **Contract Drilling Advisor**

- Write drilling programs & operating procedures for Utah & Wyoming wells
- Model feasibility of Dominion's first horizontal wells (main reason hired)

### **Chesapeake Energy**.....**May 2017 – August 2019** **Contract Drilling Superintendent Jan 2018 – Aug 2019 / Lead Drillsite Supervisor; May 2017 – Jan 2018**

- Returned to Powder River Basin with same responsibilities listed below.
- Utilized modeling software to improve drilling & tripping operations, reduce NPT due to hole issues and implement new practices. Assessed T&D feasibility of various step-out wells, assisted in planning & well design.
- Both rigs supervised as drilling superintendent won rig of a quarter awards Q1 & Q2 2019.
- Broke Chesapeake Rockies District records; rig move time (release to spud) & surface and lateral hole sections. Drilled Rockies cheapest Turner well to date, in terms of both overall cost and cost per lateral foot.
- Implemented water based drilling in Turner formation, with both fresh water and produced water.
- Selected to be member of committee to redesign central drilling command center. Contributed to communication & development of city-based operations center involvement in field operations across all business units. Implemented modeling & forecasting into operations center.
- Provided modeling & feasibility studies for wells in other areas, including the first 15k' lateral in Haynesville. Became designated modelling & feasibility subject matter expert.

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### **K&M Technology Group**

**Jan 2017 – July 2017**

#### **Contract Extended Reach Drilling Advisor**

- Provide field based preliminary design, supervision & execution of Extended Reach and Horizontal wells.
- Provided onsite technical advising support for extended laterals in Haynesville Louisiana, ultra-deep projects in Gulf of Mexico, and extended reach projects in Kenai Alaska

### **Amateur Desert Motorcycle Racing**

**2015 – 2016**

#### **National Hare & Hound Racing Association (NHHA)**

- During US oilfield activity reduction of 2016.
- During this time, guest lectured at University of Utah Petroleum engineering classes (specifics below).
- Attended both Merlin & K&M ERD training and Murchison drilling operations school, self-paid. Listed below.
- Competed 250cc+ Expert Class. Best finish 69<sup>th</sup> overall (9<sup>th</sup> in expert class, 400+ racers) Panaca, Nevada 2016. Also competed in downhill & enduro mountain bike races.

### **Chesapeake Energy**

**Jun 2014 – Sep 2015**

#### **Contract Lead Drillsite Supervisor**

- Supervise drillsite and all personnel; manage scheduling, costs & efficiency of all third party services & products.
- Ensure Chesapeake Energy environmental, health & safety policies are followed.
- Utilize Peloton Wellview to accurately report operations, costs, personnel, etc.
- Emphasis on managed pressure while drilling/tripping in fractured & irregular/partitioned pressure & loss zones of Niobrara Marl & Chalk and Sussex formations. Utilized rotating pressure control device, orbit valve & drilling, tripping underbalanced on choke. Personally contributed to developing Chesapeake managed pressure drilling program for the Rockies District.
- Managed special operations such as drilling with casing & rotary steerable applications with Sperry & Schlumberger. Drilled 20k' + wells with multiple BHA assemblies; both conventional & RSS.

### **Native Navigation**

**Jun 2013 – Jun 2014**

#### **Contract Directional Driller**

- Multi-well pad S-wells for QEP in Pinedale, WY; anti-collision, batch drilled intermediates.
- Horizontal extended reach wells for EOG in Campbell County, WY; straight hole maintenance, 90-degree curves through multiple formations, coordinating with geologist & engineer to maintain horizontal section in zone.
- Experience with pulse & EM tools. Bit & motor selections and other various tools such as agitators & BHA considerations for optimization & acknowledging limitations. Familiar with tendencies in Mesa Verde, Parker, Turner, Sussex & Niobrara formations.

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### **Halliburton Baroid**

**Nov 2011 – Jul 2013**

#### **Drilling Fluids Engineer**

- Water, LSND, and OBM mud experience.
- Treating contaminants & minimizing loss of circulation. Acutely familiar with optimizing drilling conditions utilizing various products in various hole conditions.
- Calculate hydraulics, displacements, & capacities and spotting & ECD calculations. Familiar with formation pressures & approximating desired mud weights before drilling operations begin and ensuring adequate LCM & weighting materials are on location.

### **Various Drilling Contractors**

**2005 – 2011**

#### **Floorhand, Motorhand, Pits & Derrickhand, Driller**

- DHS Drilling: Floors, Motors, Derricks. Kelly-compound rig. Wildcat autodriller.
- H&P Drilling: Floors, Derricks. Flex 4 rig, cyber chair, unique BOP handling system & mud tank system.
- Ensign US Drilling: Derricks. ADR rig, Tesco top-drive, AutoDigger, iron derrickhand, highly mobile hydraulic derrick & kingpin/semi-tractor trailer design.
- Patterson UTI Drilling: Derricks. Apex rig, unique walking system, Varco EDS auto driller & brake, Varco top-drive.

### **Education**

#### **Incomplete**

**Mechanical Engineering**

**Utah State University**

- Various courses completed including: Excel programming, mathematics through trig & multivariable calculus, physics for scientists & engineers 1 & 2 with labs, chemistry including lab, various upper division engineering courses such as statics, dynamics, strength of materials, CAD, circuits, etc.
- Regular guest lecturer in a drilling operations class for the Masters of Petroleum Engineering program at the University of Utah since 2014. Topics & sessions in conjunction with the syllabus covered are basic rig components, drilling fluids & formation/drilling considerations, and directional drilling, BHA design & tendencies. Guest speaker for University of Utah Student SPE Chapter.
- Assisted University of Utah drilling team with hindcasting drilling data to estimate formation properties for Utah's FORGE geothermal project.

### **Applicable Experience**

- Knowledgeable with Health, Safety & Environmental best practices & reporting. Advocate of Pre Job Safety Analysis & Stop Work Authority.
- Implemented DWOP(Drilling Well on Paper) planning process with rig crews & 3rd party personnel. Achieved 6-7 less actual drilling days than anticipated drilling days on 3/4 wells on the first pad process was initiated as a team.
- Functioning knowledge of directional calculations utilizing various methods.
- Strong leadership & sensibility when working with others and accepting of advice & recommendations when making decisions. Objective, pragmatic & humble. Professional & courteous, efficient & concise.

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### Technical Training Received

Drilling Fluids School	Halliburton Baroid
Well Control: IADC WellSharp Supervisory Surface	Petroleum College International
Well Control: IADC WellCap Surface	Wild Well
Well Control: IADC WellCap Surface, Subsea, Workover & Completions	Boots & Coots
Well Control: IADC WellCap Surface	Global Well Control
Well Control: IADC WellSharp Surface, Workover & Completions	Murchison Drilling Schools
Well Control: IWCF Level 4 Surface & Subsea	Maersk Training
Drilling Operational Technology	Murchison Drilling Schools
Extended Reach Drilling	Merlin ERD
Extended Reach Well Design	K&M Technology
Software Utilization Training for ERD Advisors	K&M Technology
Operations Training for ERD Advisors	K&M Technology