

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 474

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-6-18	18	9	21	Graham	KS		12:45 AM

Location *Bogone 4 1/2 S*

Lease <i>McFarland</i>	Well No. <i>#2</i>	Owner
Contractor <i>Murfin 24</i>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <i>Top stage</i>		
Hole Size <i>7 1/8</i>	T.D. <i>3960</i>	Charge To <i>American Oil</i>
Csg. <i>5 1/2</i>	Depth <i>3860</i>	Street
Tbg. Size	Depth	City State
Tool <i>DV</i>	Depth <i>1757</i>	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <i>385 80/100 QMDC 1/4 flo</i>
Meas Line	Displace <i>42 bbl</i>	

**EQUIPMENT**

Pumptrk <i>20</i> No.	Cementer Helper <i>Brett</i>	Common <i>385 80/100 Qmdc</i>
Bulktrk <i>15</i> No.	Driver <i>Craig</i>	Poz. Mix
Bulktrk <i>19</i> No.	Driver <i>David</i> <i>Jack</i>	Gel.
		Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole - <i>30sx</i>	Salt
Mouse Hole - <i>15sx</i>	Flowseal <i>100#</i>
Centralizers	Kol-Seal
Baskets	Mud CLR 48
DV or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <i>385</i>
<i>Plugged Rat &amp; Mouse hole</i>	Mileage <i>5 1/2</i>
<i>Mix 340 sx QMDC</i>	<b>FLOAT EQUIPMENT</b>
<i>Displaced 42 bbl H<sub>2</sub>O</i>	Guide Shoe
<i>Lift pressure @ 700 lbs</i>	Centralizer - <i>4</i>
<i>Landed Plug @ 2000 lbs</i>	Baskets - <i>3</i>
<i>Cement circulated</i>	AFU Inserts
	Float Shoe - <i>1</i>
	Latch Down - <i>1</i>
	<i>DV Foot = 1</i>

Pumptrk Charge <i>prod string</i>	<i>Top stage</i>
Mileage <i>50</i>	
	Tax
	Discount
	Total Charge

X Signature *Alan W...*

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 473

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-6-18	18	9	21	Graham	KS		10:00 PM

Location Bogue 4 1/2 S

Lease <u>McFarland</u>	Well No. <u>#2</u>	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <u>Murfin 24</u>		
Type Job <u>Bottom Stage</u>		
Hole Size <u>7 7/8</u>	T.D. <u>3860</u>	Charge To <u>American Oil</u>
Csg. <u>5 1/2</u>	Depth <u>3860</u>	Street
Tbg. Size	Depth	City State
Tool <u>DV</u>	Depth <u>1757</u>	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>22'</u>	Shoe Joint <u>22'</u>	Cement Amount Ordered <u>150 con 10% Salt</u>

Meas Line	Displace <u>9 1/2</u>	5% <u>Gilsonite</u>
<b>EQUIPMENT</b>		
Pumptrk <u>20</u> No.	Cementer <u>Brett</u> Helper <u>Jack</u>	Common <u>150</u>
Bulktrk <u>15</u> No.	Driver <u>Craig</u>	Poz. Mix
Bulktrk <u>19</u> No.	Driver <u>David</u>	Gel.

<b>JOB SERVICES &amp; REMARKS</b>		
Remarks: <u>Routed</u>	Salt <u>13</u>	
Rat Hole	Flowseal	
Mouse Hole	Kol-Seal <u>70 750#</u>	
Centralizers <u>1, 3, 5, 7, 9, 11, 51 + 78</u>	Mud CLR 48 - <u>500 gal</u>	
Baskets <u>12, 52 + 79</u>	CFL-117 or CD110 CAF 38 - <u>10 bbl</u>	
DV <del>or Pot Hole</del> <u>Jr 52 @ 1757</u>	Sand	

Ran <u>94 Jts @ 3860 + Egr cir</u>	Handling <u>170</u>	
Mix <u>500 Gal Mud Flush + 10 bbl KCL</u>	Mileage <u>5 1/2</u>	<b>FLOAT EQUIPMENT</b>
Mix <u>150 sx</u>	Guide Shoe	
Displaced <u>45 H<sub>2</sub>O, 36 Mud + 10 1/2 H<sub>2</sub>O</u>	Centralizer - <u>8</u>	
	Baskets - <u>3</u>	
<u>Lift pressure @ 800 lbs</u>	AFU Inserts	
	Float Shoe - <u>1</u>	
<u>Landed @ 2000 lbs + held</u>	Latch Down - <u>1</u>	
	DV Tool - <u>1</u>	

Open DV @ <u>1000 lbs</u>	Pumptrk Charge <u>prod string</u>	<u>Bottom Stage</u>
	Mileage <u>50</u>	

	Tax	
	Discount	
X Signature <u>Ann Weasley</u>	Total Charge	

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 812

Date	5-1-18	Sec.	18	Twp.	9	Range	21	County	Graham	State	KS	On Location		Finish	10:45 AM								
Location								Bogue & Redline 3N Winto															
Lease	McFarland			Well No.	2			Owner															
Contractor	Munfin #24			To Quality Oilwell Cementing, Inc.								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Type Job	Surface			Charge To								American Oil											
Hole Size	12 1/4			T.D.	220			Street															
Csg.	8 5/8			Depth	218			City								State							
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.															
Tool				Depth				Cement Amount Ordered								150 8 5/8 3 1/2 2 1/2 1/2							
Cement Left in Csg.	10'			Shoe Joint				Meas Line								Displace 13 B C							
<b>EQUIPMENT</b>																							
Pumptrk	20			No.	Cementer			Craig								Common				120			
				No.	Helper			Brett								Poz. Mix				30			
Bulktrk				No.	Driver			Jordan								Gel.				3			
Bulktrk				No.	Driver											Calcium				6			
<b>JOB SERVICES &amp; REMARKS</b>																							
Remarks:	8 5/8 on bottom Est. Circulation.																						
Rat Hole	Mix 150 5/8 Displace.																						
Mouse Hole	Cement Circulated!																						
Centralizers																							
Baskets																							
D/V or Port Collar																							
	Handling 159																						
	Mileage																						
<b>FLOAT EQUIPMENT</b>																							
	8 5/8																						
	Guide Shoe																						
	Centralizer 1																						
	Baskets																						
	AFU Inserts																						
	Float Shoe																						
	Latch Down																						
	Pumptrk Charge															Surface							
	Mileage															50							
Tax																							
Discount																							
Total Charge																							
X Signature																							

# AUSTIN B. KLAUS

Cell 785.650.3629  
Work 785.483.3145  
Ext 225

PO BOX 352  
Russell, KS 67665  
austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: McFarland #2  
Location: Graham County  
License Number: API #15-065-24149-00-00  
Spud Date: 5/1/2018  
Surface Coordinates: Section 18, Township 9 South, Range 21 West  
990' FNL & 430' FEL  
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above  
Ground Elevation (ft): 2,272  
Logged Interval (ft): 3,200 To: RTD  
Formation: LKC-Arbuckle  
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas

Drilling Completed: 5/5/2018

K.B. Elevation (ft): 2,277

Total Depth (ft): 3,860

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: American Oil, LLC  
Address: 1200 Main, Suite 410  
Hays, KS 67601

## GEOLOGIST

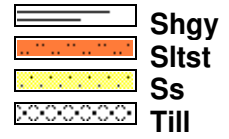
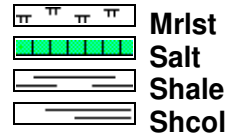
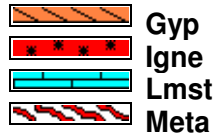
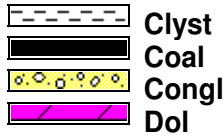
Name: Austin Klaus  
Company: John O. Farmer, Inc.  
Address: 370 W. Wichita Ave.  
Russell, KS 67665

## Comments

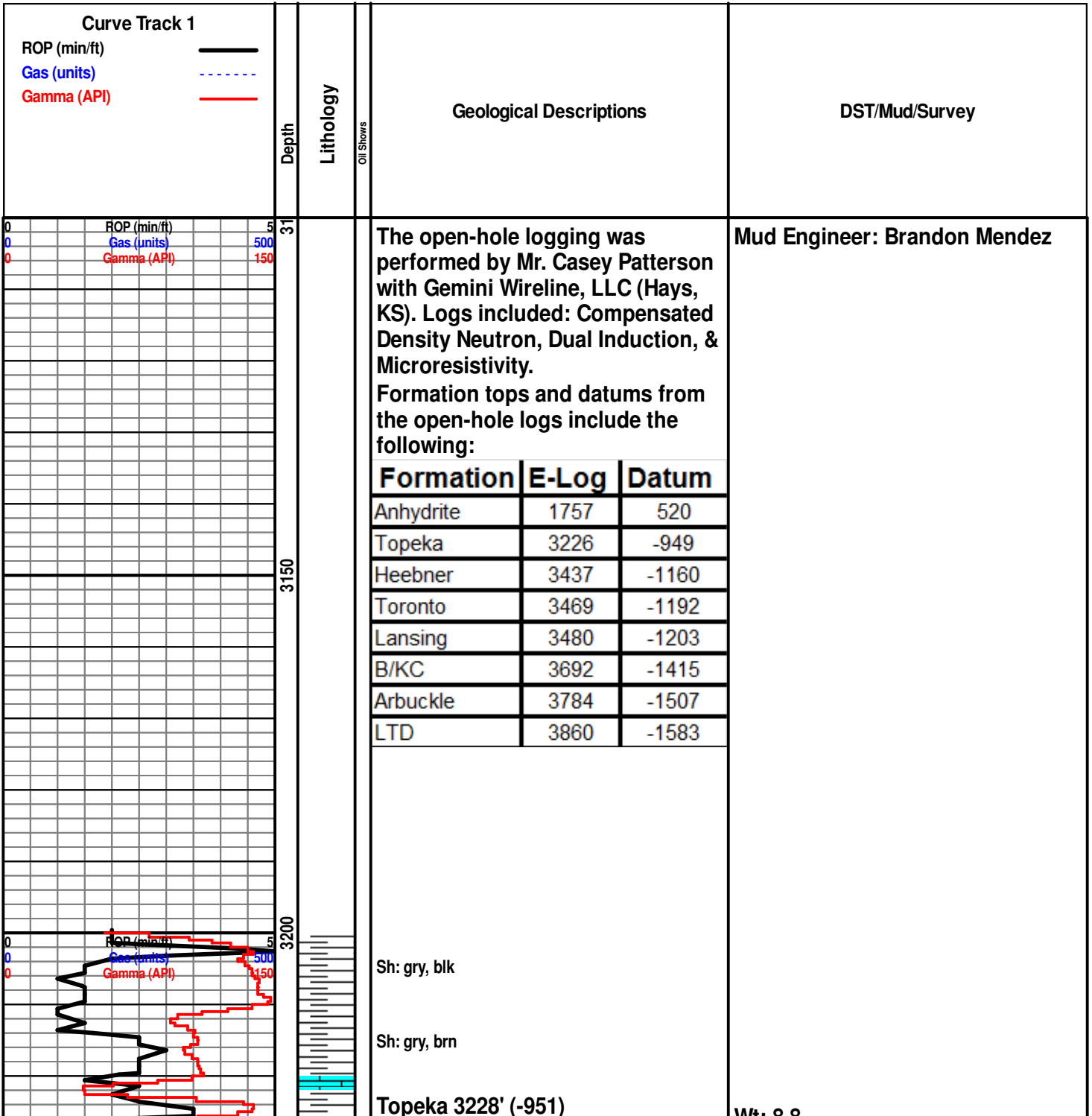
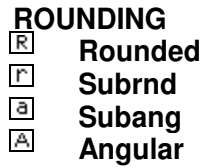
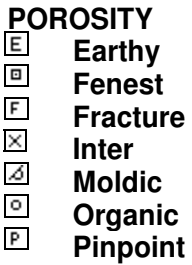
The McFarland #2 well was drilled by Murfin Drilling Rig #24.

The McFarland #2 was drilled as production offset. Rock samples were gathered and evaluated from 3,200'-3,860'. Oil shows were encountered in the LKC C, F, J, K and Arbuckle. Structurally, the Lansing top was picked flat to the comparison well, 100' to the southeast (Seefeld #5 - 1950'). Structure remained consistent through the LKC and below, which resulted in an Arbuckle picked flat to the comparison well. After evaluation of all oil shows and electric logs, it was decided that 5 1/2" production casing be set to further evaluate the McFarland #2 on 5/6/18.

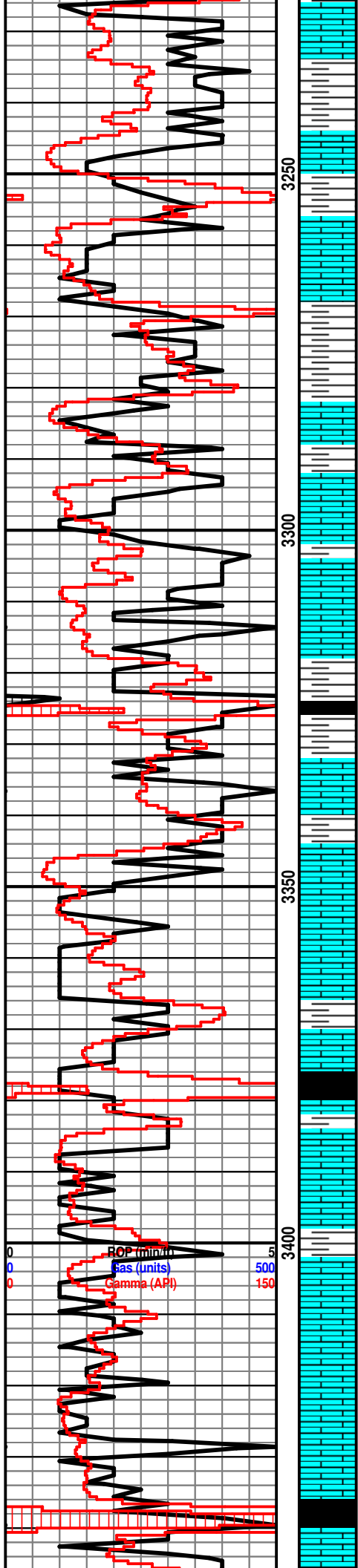
**ROCK TYPES**



**OTHER SYMBOLS**







Ls: off wh-gry, fn xln, scat foss, scat chalk

Sh: gry-brn

Ls: off wh, fn xln, poor int part & scat pp vuggy porosity, NSFO, scat chalk

Sh: gry

Ls: buff, fn xln, ool, scat pyrite

Ls: ala

Sh: drk gry-blk

Slst: brn

Ls: off wh-buff, fn xln, NSFO, scat chalk

Sh: drk gry-blk

Ls: off wh, fn xln, chalky

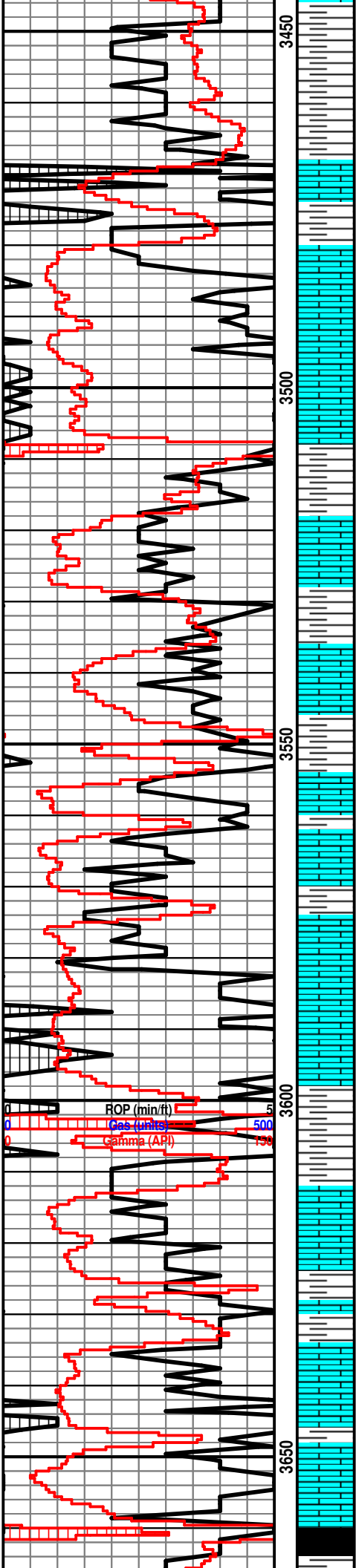
Ls: buff, fn xln, poor-fair int part porosity, NSFO, scat chert

Ls: ala

**Heebner 3440' (-1163)**

Sh: blk, carb, fissile

ROP (min/in) 5  
Gas (units) 500  
Gamma (API) 150



Sh: drk gry-brn, soft

**Toronto 3466' (-1189)**

Ls: buff, fn xln, no visible porosity, NSFO

Sh: drk gry-brn

**Lansing 3481' (-1204)**

Ls: buff, fn xln, poor int part porosity, mostly DNS, NSFO

Ls: off wh-buff, fn xln, no visible porosity, scat chert-off wh

Sh: drk gry-brn

Ls: off wh, fn xln, ool, poor-fair int part porosity, scat oil stn, VSSFO, fnt odor, scat chert-off wh

Sh: drk gry-brn

Ls: off wh, fn xln, poor int xln porosity, vry lt oil stn, fnt odor, scat chert-off wh

Sh: drk gry-brn

Ls: off wh, fn xln, scat foss, poor int part & scat int foss porosity, scat oil stn, NSFO

Ls: off wh, fn xln, foss, poor-fair int part porosity, fair oil stn, VSSFO, fnt odor, chalky

Ls: off wh-buff, fn xln, chalky, NSFO

Ls: ala

Sh: drk gry

Ls: tan-gry, fn xln, DNS, NSFO, scat chert

Sh: drk gry

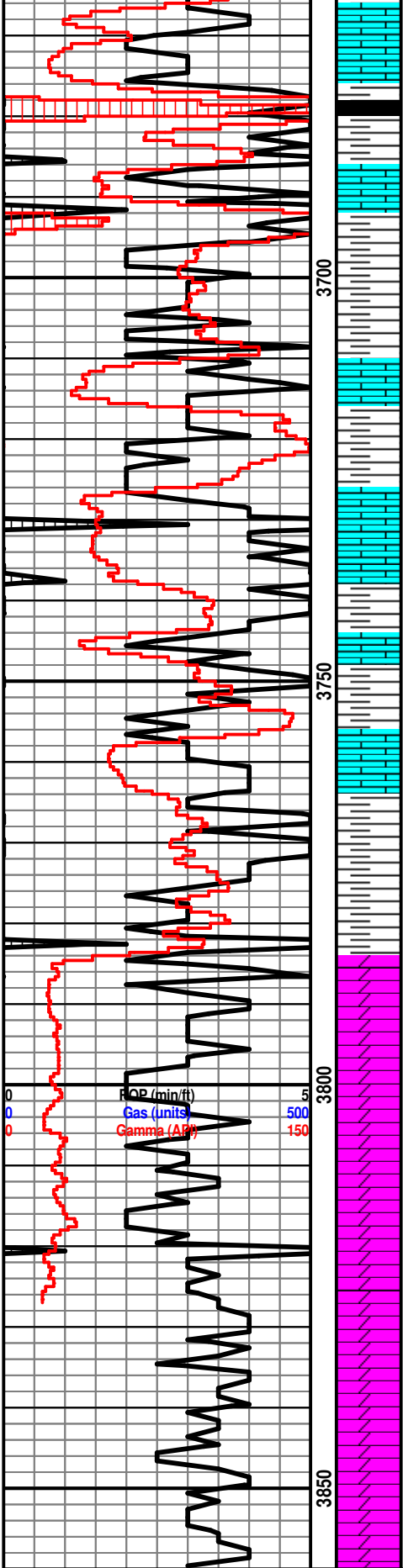
Ls: buff, fn xln, NSFO, chalky

Sh: drk gry

Ls: off wh, fn xln, foss, poor-fair int part & scat int foss porosity, fair oil stn, VSSFO, fnt odor

Sh: blk, carb

Wt: 9.5  
Vis: 62



Ls: off wh, fn xln, foss, poor int part porosity, sl-fair oil stn, VSSFO, fnt odor, scat chert-off wh

Sh: drk gry-blk

Ls: buff, fn xln, scat chert

**B/KC 3694' (-1417)**

Sh: drk gry-brn

Ls: buff, fn xln, chalky, scat chert-off wh

Sh: drk gry-brn

Ls: off wh, fn xln, ool, scat int part porosity, scat oil stn, VSSFO, fnt odor

Sh: drk gry-brn, soft

Sh: drk gry-brn, scat chert

Ls: buff, fn xln, scat foss, chert

Sh: gry-grn

**Arbuckle 3785' (-1508)**

Dolo: off wh-tan, fn-md xln, fair int xln porosity, scat-fair oil stn in porosity, FSFO, good odor

Dolo: off wh-tan, fn-md xln, fair-good int xln porosity, fair-good oil sat, FSFO, good odor, scat sh

Dolo: buff-tan, fn-md xln, poor int xln porosity, fair oil stn in porosity, S-FSFO, fair-good odor

Dolo: buff, fn-md xln, poor-fair int xln & scat int part porosity, scat oil stn, mostly barren, fair odor

Dolo: off wh-buff, fn-md xln, poor int xln porosity, barren

Dolo: ala

Dolo: off wh-tan, fn-md xln, poor int xln porosity, NSFO