

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 Recompletion Date _____ 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. 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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T. BERENS CONSULTING LLC

1493 TOULON AVENUE

HAYS KS 67601

785-639-5727

tberens@ruraltel.net

Patterson Energy

Zwillich #1

660' FNL & 2310' FEL Sec 23-17S-9W

Ellsworth Co.

GL 1775'

KB 1786'

6/13 /2021: T.D. 3270'. Prepare to run 5 1/2" Production Casing. Tallied in the hole with 77 joints of New Midwestern Pipework's 5 1/2", 8rd,17# R-3 LTC casing and float shoe. Tagged up on TD at 3270' and set pipe at 3269' 1' off bottom. Latched down @ 3227' marked joint @ 2829' & shoe joint 42.37'. Turbolizer/centrilizers @3227',3097',2976',2845' & 2703'. Rigged up Quality Oilwell Cementing Inc. cemented with 12 barrels of mud flush, 10 barrels of fresh water then 150 sacks of common, 10% salt, 5% gilsonite. Displaced with 74 3/4 barrels of fresh water, had good circulation. Landed plug at 4:45 PM with 1600#, 800# lift pressure & latch down held. Plug rat hole with 30 sacks and mouse hole with 20 sacks, set slips & released rig.

Equipment on location 4 joints tallied 151.77'

Ran pipe as follows.

Float Shoe	1.00'
Shoe Joint	42.37'
76 joints of 5 1/2"	3215.15'
Depth Below KB	<u>10.00'</u>
Depth Landed	3268.52'


QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 2269

Date	6-13-21	Sec.	23	Twp.	17	Range	9	County	Ellsworth	State	KS	On Location		Finish	7:45pm								
								Location															
Lease								Well No.		Owner													
Zwillich								1		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								Munfin															
Type Job								Production String															
Hole Size				T.D.				Charge To															
7 7/8				3270				Patterson Energy															
Csg.				Depth				Street															
5 1/2 17#				3269																			
Tbg. Size				Depth				City				State											
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.															
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered															
42.37				42.37				20000m 10% Salt 5% Gilsomite															
Meas Line				Displace				500gal mud clear + 100lb KCL															
				74 3/4 BL																			
EQUIPMENT								Common															
Pumptrk 17 No. Cementer								200															
Helper								Poz. Mix															
Bulktrk No. Driver								Gel.															
Bulktrk 9 No. Driver								Calcium KCL 1 gal															
Driver								Hulls															
JOB SERVICES & REMARKS								Salt 14															
Remarks:								Flowseal															
Rat Hole 30SR								Kol-Seal 750 #															
Mouse Hole 20SR								Mud CLR 48 500															
Centralizers								CFL-117 or CD110 CAF 38															
Baskets								Sand															
D/V or Port Collar								Handling 221															
5 1/2 set @ 3269. Baffle								Mileage															
3226 BSR Circulation Pump								FLOAT EQUIPMENT															
500 gal mud clear + 100lb KCL.								5 1/2															
Plus Rathole & mousehole								Guide Shoe															
Cement 5 1/2 with 1.50SR.								Centralizer 5															
Clear lines, Displace Plug -								Baskets															
Plug low @ 1500'								AFU Inserts															
								Float Shoe 1															
								Latch Down 1															
								Pumptrk Charge prod string															
								Mileage 43															
X Signature Tom Beer								Thanks 								Tax							
																Discount							
																Total Charge							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 2240

Date <u>6/8/21</u>	Sec. <u>23</u>	Twp. <u>17</u>	Range <u>9</u>	County <u>Ellsworth</u>	State <u>Kansas</u>	On Location	Finish <u>5:30pm</u>
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Location Lorraine 1/2 E Sinto

Lease <u>Zwillich</u>	Well No. <u>1</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 Drilling</u>		
Type Job <u>Surface</u>		
Hole Size <u>12 1/4</u>	T.D. <u>287</u>	Charge To <u>Patterson Energy</u>
Csg. <u>8 5/8</u>	Depth <u>285.96</u>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>20'</u>	Shoe Joint <u>20'</u>	Cement Amount Ordered <u>180 80% 20 3% cc 2% gel</u>
Meas Line	Displace <u>17</u>	

EQUIPMENT

Pumptrk <u>18</u> No.	Cementer <u>David</u>	Common <u>145</u>
Bulktrk <u>9</u> No.	Helper <u>Tony</u>	Poz. Mix <u>35</u>
Bulktrk No.	Driver	Gel. <u>3</u>
Bulktrk No.	Driver	Calcium <u>7</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <u>190</u>
<u>Ran 85% and est circulation</u>	Mileage

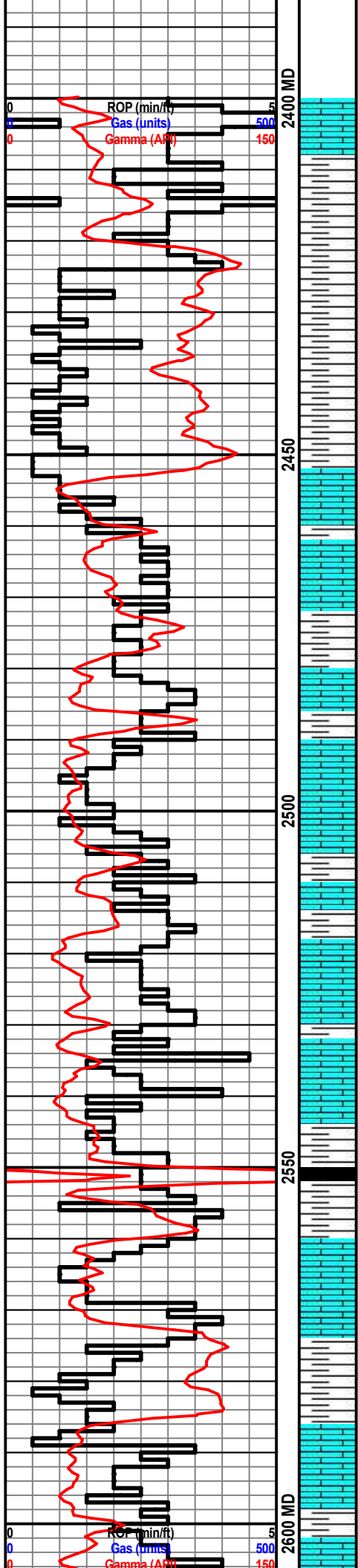
FLOAT EQUIPMENT

<u>Cemented with 180 sks</u>	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

<u>Cement Did Circulate</u>	Pumptrk Charge <u>Surface</u>
	Mileage <u>43</u>

Signature <u>Armando Ceballos</u>	Tax
	Discount
	Total Charge

Thanks



Ls: tan-gry, buff, fn-sub xln, DNS

Sh: lt gry-bm

Sh: ala

Sh: lt gry

Topeka 2460' (-674)

Ls: tan-gry-buff, fn-sub xln, DNS, scat chalk

Sh: lt-drk gry

Ls: tan-gry-buff, fn-sub xln, DNS, scat fossil

Ls: off wh-tan-gry, fn xln, poor scat int xln & fossil porosity, scat dead oil str

Ls: tan-lt gry, fn-sub xln, mostly DNS, scat fossil

Ls: ala

Ls: tan-gry, fn-sub xln, mostly DNS, scat chalk

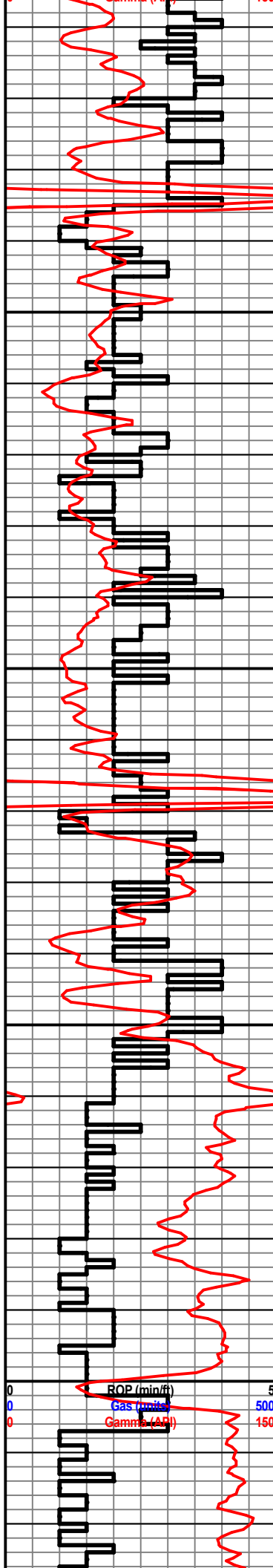
Sh: gry-blk

Sh: lt-drk gry

Ls: off wh-tan-gry, fn xln, scat poor int xln & fossil porosity, scat dead oil str

Sh: gry

Ls: off wh-tan-gry, fn xln, scat-poor int xln porosity, scat fossil



Ls: tan-gry, fn-sub xln, mostly DNS, NSF-O, scat chalk

Ls: ala

Sh: drk gry-blk

Ls: off wh-tan, fn xln, scat-poor int xln porosity, barren, scat chalk

Ls: tan-lt gry, fn-sub xln, mostly DNS, scat chalk

Ls: ala

Sh: lt gry-bm

Ls: off wh-tan-lt gry, poor-fair int xln porosity, mostly barren, scat foss

Heebner 2719' (-933)

Sh: blk, carb, fissile

Ls: tan-lt gry, fn-sub xln, mostly DNS

Sh: lt-drk gry

Ls: tan-gry, fn-sub xln, DNS

Sh: lt gry-bm

Sh: ala

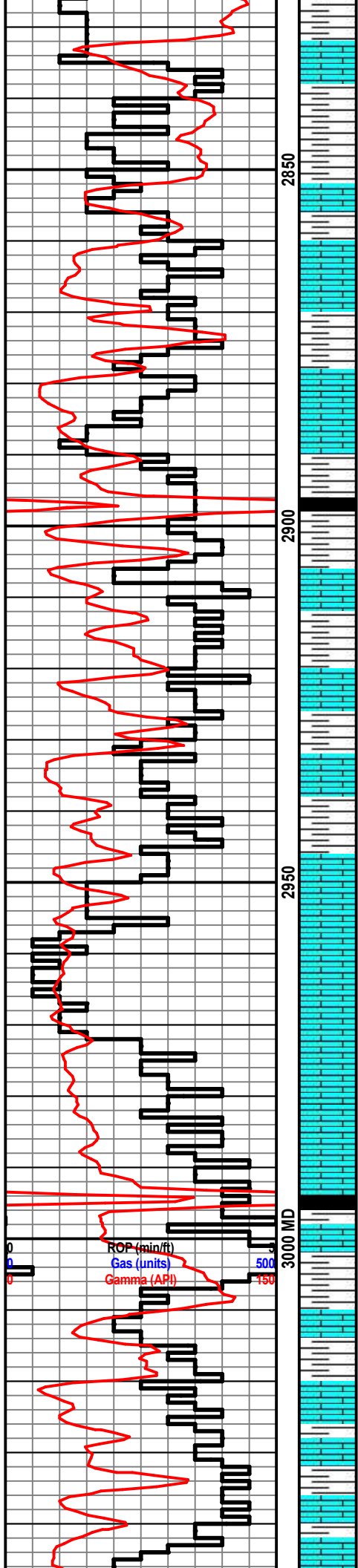
Sh: lt gry

Sh: lt gry-bm

Sh: ala

Sh: lt gry, soft

Wt: 9.0
 Vis: 56



Sh: lt gry-bm

Lansing 2855' (-1069)

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

Ls: off wh-tan, fn xln, fossil, poor int xln porosity, barren

Sh: lt gry-bm

Ls: off wh-tan, fn xln, ool, fair oom porosity, scat sl oil stn, VSSFO, vry frnt odor

Sh: drk gry-blk

Ls: off wh-tan, fn xln, fossil, scat-poor int xln porosity, NSFO, scat chert-off wh

Ls: off wh-tan, fn xln, scat foss, poor int foss porosity, mostly barren, chert-off wh, scat chalk

Ls: off wh-tan, fn xln, scat foss, poor int xln porosity, barren

Sh: drk gry

Ls: off wh-tan, fn xln, poor-fair int xln & scat vuggy porosity, scat lt oil stn, vry frnt odor, scat chalk

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, vry lt scat oil stn, lt odor, scat chalk

Ls: off wh-tan, fn xln, scat foss, chalky, barren

Ls: ala

Sh: drk gry-blk

Ls: off wh-tan, fn xln, poor, few pcs fair int xln porosity, scat foss, scat dead oil stn, frnt odor, scat chert-off wh

Sh: lt gry

Ls: tan-lt gry, fn xln, poor int xln porosity, barren, scat chalk

Sh: lt-drk gry

Ls: off wh-tan, fn xln, poor int xln porosity, mostly barren, scat chert-off wh

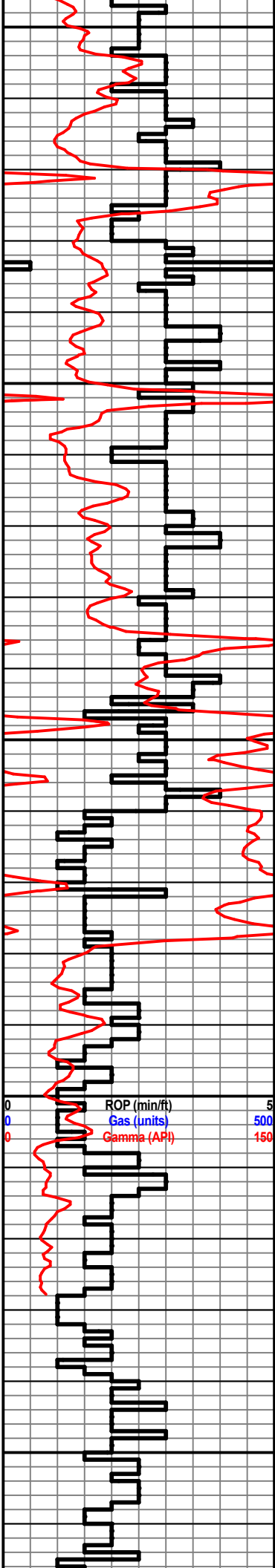
ROP (min/ft)
Gas (units) 500
Gamma (API) 150

3000 MD

2950

2900

2850



Ls: off wh-tan, fn xln, scat int xln & int foss porosity, mostly barren, scat chalk

Ls: off wh-tan, fn xln, poor int xln porosity, scat chalk

Sh: lt drk gry-blk

Ls: off wh-tan, fn xln, poor, few rx w fair int xln porosity, scat lt oil stn, fnt odor, scat chert-off wh

Ls: off wh-tan, fn xln, poor int xln porosity, mostly barren, scat chert-off wh

Ls: tan-lt gry, fn xln, poor int xln & vuggy porosity, barren, scat chert-off wh, chalky

Ls: off wh-tan, fn xln, poor int xln & vuggy porosity, barren, scat chalk

Ls: off wh-tan, fn xln, scat int xln porosity, barren, NSFO, scat chalk

Ls: ala

B/KC 3160' (-1374)

Sh: lt-drk gry

Sh: lt gry-bm, scat Ls: tan-gry, DNS, barren, scat chalk

Arbuckle 3181' (-1395)

Dolo: off wh-tan-bm, fn xln, poor int xln porosity, sl-fair oil sat, SSFO, fair odor, dull yel fluor

Dolo: off wh-tan, fn-md xln, fair int xln porosity, fair oil sat, SSFO, fair odor, dull yel fluor

Dolo: off wh-tan-bm, fn-md xln, fair int xln porosity, sl-fair oil sat, SSFO, fair-good odor, dull yel fluor

Dolo: off wh-tan-bm, fn-md xln, fair int xln porosity, scat foss, poor oil sat, VSSFO, fair odor, scat chalk

Dolo: off wh-tan, fn-md xln, poor int xln porosity, barren, scat chert-off wh

Dolo: off wh-tan, fn-md xln, poor int xln porosity, barren, scat chert-off wh, scat chalk

Dolo: off wh-tan, fn-md xln, scat int xln porosity, barren, scat chert-off wh, scat chalk

Wt: 9.4
Vis: 50

Wt: 9.4

