

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
--	---

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
---	--	------------------------------------

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:	
----------------	-------	---------	------------	--

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 2620

Date	12-2-21	Sec.	36	Twp.	17	Range	11	County	Barton	State	Ks	On Location		Finish	10:00 AM
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	----------

Lease	Bradley unit	Well No.	# 2	Owner	Van, W/S
-------	--------------	----------	-----	-------	----------

Contractor	Murfin	#20	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	Patterson Energy
----------	---------	-----------	------------------

Hole Size	12 1/4"	T.D.	369'
Csg.	8 5/8"	Depth	369'

Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			

Cement Left in Csg.	15'	Shoe Joint	15'	Cement Amount Ordered	180 80/20 3 3/4 cc 2 1/2 gal
Meas Line		Displace	22 1/4 B/S		

EQUIPMENT

Pumptrk	16	No.		Cementer	David	Common	145
				Helper		Poz. Mix	35
Bulktrk	9	No.		Driver	Jordan	Gel.	3
				Driver		Calcium	7
Bulktrk	p.u.	No.		Driver	Rick		

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate	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	190
		Mileage	

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Surface
Mileage	30

Signature	[Signature]	Tax	
		Discount	
		Total Charge	

thanks

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. 2623

Date	12-7-21	Sec.	36	Twp.	17	Range	11	County	Barton	State	Ks	On Location		Finish	9:30 AM	
Lease	Bradley unit							Well No.	#2	Location Claflin - 3E to C.L., 1/2 N, W/Into						
Contractor	Murfin #20							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.								
Type Job	Longstring							Charge To Patterson Energy								
Hole Size	7 7/8"							T.D.	3320'							
Csg.	5 1/2" #17 New							Depth	3320'	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.	27.50							Shoe Joint	27.50'	Cement Amount Ordered 175 Com 10% Salt 5% Gilsomite						
Meas Line	Displace 76 1/2 BLS							500 gal mud Clear 48 2 gal KCL								
EQUIPMENT																
Pumptrk	16	No.		Cementer	David		Common 175									
Bulktrk	9	No.		Helper			Poz. Mix									
Bulktrk	P.M.	No.		Driver	Rick		Gel.									
Bulktrk		No.		Driver			Calcium 2 gal KCL									
JOB SERVICES & REMARKS																
Remarks:	Hulls															
Rat Hole	30 SX							Salt 14								
Mouse Hole	15 SX							Flowseal								
Centralizers	1, 3, 8, 9, 11, 13							Kol-Seal 750#								
Baskets	14							Mud CLR 48 500 gal								
D/V or Port Collar	pipe on bottom, break							CFL-117 or CD110 CAF 38								
	Circulation, pump 500 gal mud							Sand								
	Clear + 10 BLS KCL, shut down							Handling 196								
	plug Rathole + mousehole. Hook							Mileage								
	to 5 1/2" casing + mix 130 SX							FLOAT EQUIPMENT								
	Shut down. Released plug +							Guide Shoe								
	Displaced w/ 76 1/2 BLS. H 20							Centralizer 7								
	First 10 BLS w/ KCL. Released							Baskets 1								
	+ hold.							AFU Inserts								
	Lift pressure 800 #							Float Shoe 1								
	Land plug to 1500 #							Latch Down 1								
								Rotating head								
								Pumptrk Charge prod string								
								Mileage 30								
Signature												Tax				
												Discount				
												Total Charge				

Thanks

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: Bradley Unit #2
API: 15-009-26323-00-00
Location: Barton County
License Number:
Spud Date: 12/01/2021
Surface Coordinates: Section 36, Township 17 South, Range 11 West
1,980' FNL & 330' FEL
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above
Ground Elevation (ft): 1,804
Logged Interval (ft): 2,500
Formation: Topeka - Arbuckle
Type of Drilling Fluid: Chemical (Andy's Mud)

Region: Kansas
Drilling Completed: 12/06/2021
K.B. Elevation (ft): 1,815
Total Depth (ft): 3,320
To: RTD

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

OPERATOR

Company: Patterson Energy, LLC
Address: PO Box 400
Hays, KS 67601

GEOLOGIST



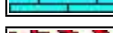
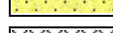
Name: Austin Klaus
Company: John O. Farmer, Inc.
Address: PO Box 352
Russell, KS 67665

Comments

The Bradley Unit #2 well was drilled by Murfin Drilling Company Inc. Rig #20 (Tool Pusher: Jesus Vargas).

Drilling time was recorded and rock samples were collected and evaluated from 2,500'- 3,320'. Oil shows were encountered in the Lansing/Kansas City C, G, J and Arbuckle. Structurally, the LKC top was picked 5/6' high to the comparison well, located 920' east (Grizzell #26 - Grady Bolding Corp, 2010). Structure remained consistent throughout the LKC and the Arbuckle top was also picked 5' high to the comparison well. The Bradley Unit #2 is also 3' high to the nearest producing well (Bloomer #1 - Stepco Oil Co., P&A 1980-96'). After comprehensive evaluation of all oil shows, electric logs, and structural position, it was decided that 5-1/2" production casing be set to further evaluate the Bradley Unit #2 on December 7, 2021.

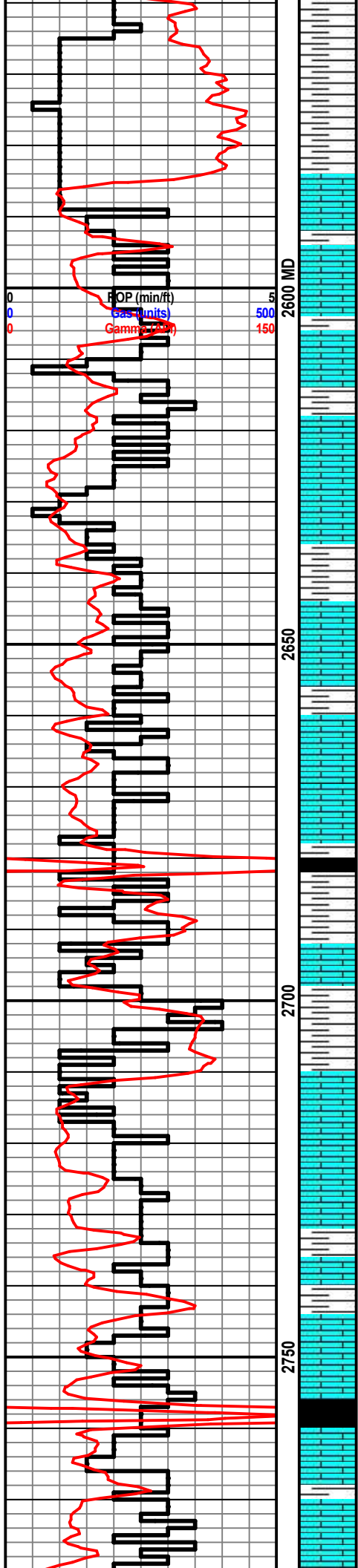
ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Slstst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

OTHER SYMBOLS

POROSITY	<input checked="" type="checkbox"/> Vuggy	ROUNDING	<input type="checkbox"/> Spotted	EVENT
<input type="checkbox"/> Earthy	SORTING	<input type="checkbox"/> Rounded	<input type="checkbox"/> Ques	<input type="checkbox"/> Rft
<input type="checkbox"/> Fenest		<input type="checkbox"/> Subrnd	<input type="checkbox"/> Dead	<input type="checkbox"/> Sidewall
<input type="checkbox"/> Fracture		<input type="checkbox"/> Subang	INTERVAL	<input type="checkbox"/> Core
<input type="checkbox"/> Inter		<input type="checkbox"/> Angular		<input type="checkbox"/> Dst
<input type="checkbox"/> Moldic	<input type="checkbox"/> Well	OIL SHOW		
<input type="checkbox"/> Organic	<input type="checkbox"/> Moderate	<input type="checkbox"/> Even		
<input type="checkbox"/> Pinpoint	<input type="checkbox"/> Poor			

Curve Track 1 ROP (min/ft) ——— Gas (units) - - - - - Gamma (API) ———	MD	Lithology	Oil Shows	Geological Descriptions	DST/Mud/Survey																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right;">0</td> <td style="width: 10%; text-align: right;">ROP (min/ft)</td> <td style="width: 10%;"></td> <td style="width: 10%; text-align: right;">5</td> </tr> <tr> <td style="text-align: right;">0</td> <td style="text-align: right;">Gas (units)</td> <td></td> <td style="text-align: right;">500</td> </tr> <tr> <td style="text-align: right;">0</td> <td style="text-align: right;">Gamma (API)</td> <td></td> <td style="text-align: right;">150</td> </tr> </table>	0	ROP (min/ft)		5	0	Gas (units)		500	0	Gamma (API)		150	2500			<p>The open-hole logging was performed by Mr. Casey Patterson with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density Neutron, Dual Induction, and Microresistivity.</p> <p>Formation tops and datums from the open-hole logs include the following:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Formation</th> <th>E-Log</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Topeka</td> <td style="text-align: center;">2586</td> <td style="text-align: center;">-771</td> </tr> <tr> <td>Heebner</td> <td style="text-align: center;">2838</td> <td style="text-align: center;">-1023</td> </tr> <tr> <td>Lansing</td> <td style="text-align: center;">2966</td> <td style="text-align: center;">-1151</td> </tr> <tr> <td>B/KC</td> <td style="text-align: center;">3236</td> <td style="text-align: center;">-1421</td> </tr> <tr> <td>Arbuckle</td> <td style="text-align: center;">3241</td> <td style="text-align: center;">-1426</td> </tr> <tr> <td>LTD</td> <td style="text-align: center;">3320</td> <td style="text-align: center;">-1505</td> </tr> </tbody> </table>	Formation	E-Log	Datum	Topeka	2586	-771	Heebner	2838	-1023	Lansing	2966	-1151	B/KC	3236	-1421	Arbuckle	3241	-1426	LTD	3320	-1505	
0	ROP (min/ft)		5																																			
0	Gas (units)		500																																			
0	Gamma (API)		150																																			
Formation	E-Log	Datum																																				
Topeka	2586	-771																																				
Heebner	2838	-1023																																				
Lansing	2966	-1151																																				
B/KC	3236	-1421																																				
Arbuckle	3241	-1426																																				
LTD	3320	-1505																																				



Sh: lt-drk gry

Topeka 2587' (-772)

Ls: lt gry-cm, fn xln, scat foss, mostly DNS

Ls: ala

Ls: off wh-tan, fn xln, scat foss, fair int xln porosity, NSFO

Sh: lt-drk gry

Ls: tan-gry, fn xln, scat foss, scat poor int xln porosity

Ls: tan-gry, fn xln, poor int xln porosity, scat foss, NSFO

Ls: tan-gry, fn xln, mostly DNS, foss

Ls: ala

Sh: blk, carb

Sh: lt-drk gry

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

Sh: lt-drk gry

Ls: lt gry-tan-cm, fn xln, scat foss, NSFO

Ls: ala

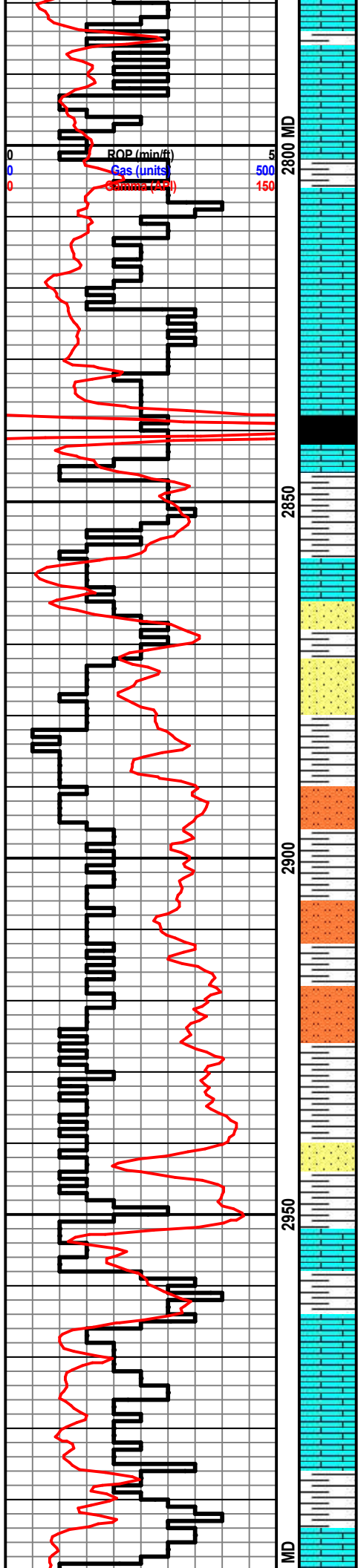
Sh: lt-drk gry

Ls: tan-gry, fn-md xln, scat foss, scat int xln porosity, NSFO

Sh: blk, carb

Ls: tan-gry, fn-md xln, scat foss, NSFO

Ls: ala



Ls: off wh-tan, fn xln, fair vuggy & int xln porosity, scat drk bm stn, scat-FSFO when brkn, fair odor

Ls: tan-gry, fn xln, scat-poor int xln porosity, scat bm oil stn

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

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

Heebner 2843' (-1028)

Sh: blk, carb, fissile

Ls: tan-gry, fn xln, scat foss, no visible porosity

Ls: tan-gry, fn xln, mostly DNS, NSFO

Ss: lt gry, fn gm, m-sub md, sl friable

Ss: lt gry, fn gm, slt, md-sub md, friable, scat sh: lt-drk gry

Sh: lt gry, scat slts: gry-gm and ss: ala

ala

Slst: lt gry, vry fn gm scat ss and sh: gry-blk, scat chalk

Slst: ala

Ss: lt gry, fn gm, md-sub md, sl friable

Ss: ala

Sh: lt-drk gry, soft

Lansing 2972' (-1157)

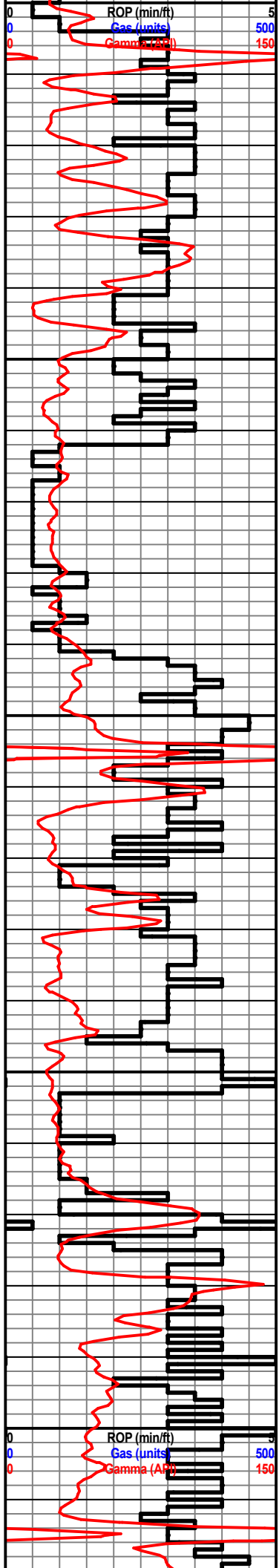
Ls: tan-lt gry, fn xln, poor int xln porosity, few pcs w/ lt bm stn, NSFO

Ls: tan-gry, fn xln, poor-fair int xln porosity, dead oil stn, NSFO

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, scat-fair drk bm oil stn, SSFO when brk, fair odor, foss

Wt: 8.9
Vis: 55



Sh: lt-drk gry

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

Sh: drk gry

Sh: lt gry, soft

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

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, fair
bm stn, SSFO, sl-fair odor, scat chalk

Ls: ala

Ls: tan-bm, fn xln, ooc, fair-good oom porosity, scat bm
stn, VSSFO, fair odor, scat sh: lt gry

Ls: tan-lt gry, fn-sub xln, scat foss

Sh: blk, carb

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

Sh: lt-drk gry

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

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, scat lt
bm oil stn, SSFO when brk, fair-good odor

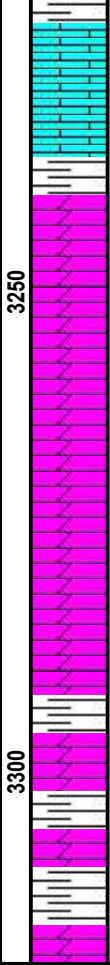
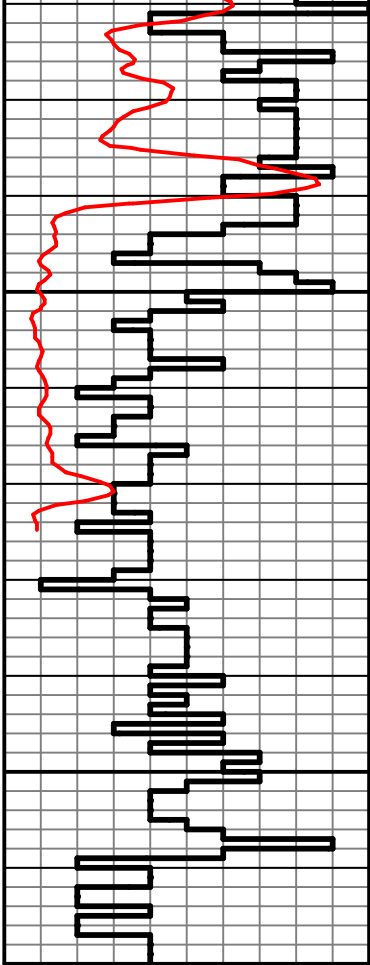
Ls: off wh-tan, fn xln, ool, fair-good oom porosity, mostly
barren, scat foss

Sh: lt-drk gry

Ls: off wht-tan, fn xln, scat ool, few pcs w scat oom
porosity, scat lt bm oil stn, NSFO

Ls: tan-cm, fn xln, scat-poor int xln porosity, mostly
barren, NSFO, chalky, scat foss

Sh: lt-drk gry



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

B/KC 3243' (-1428)

Arbuckle 3245' (-1430)

Dolo: off wh, fn-md xln, fair-good int xln porosity, lt bm
lt-fair oil strn, S-FSFO when brkn, fair-good odor

Dolo: off wh-wh, fn-md xln, fair-good sucrosic xln
porosity, lt oil strn, SSFO when brkn, good odor

Dolo: off wh-wh, fn-crs xln, fair-good sucrosic xln
porosity, lt bm strn, VSSFO, fair odor, scat sh: drk gry

Dolo: wh, fn-crs xln, scat fair-good int xln porosity,
mostly barren, scat sh: drk gry

Dolo: off wh-tan, fn-md xln, scat int xln porosity, barren,
sh: drk gry

Dolo: ala, scat sh: drk gry-bm

Dolo: off wh-tan, fn-md xln, scat int xln porosity, barren,
hvy sh: drk gry