

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. 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)</i> <i>(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 785-483-1071  
Cell 785-324-1041

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

No. 2816

Date	5-1-22	Sec.	5	Twp.	18	Range	10	County	Rice	State	Ks	On Location		Finish	10:00 PM
------	--------	------	---	------	----	-------	----	--------	------	-------	----	-------------	--	--------	----------

Lease	Habiger		Location	Claflin - 4 1/2 E, S/Into											
Well No.	2		Owner												

Contractor	Discovery #2		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													

Hole Size	7 7/8"		T.D.	3500'		Charge To	Patterson Energy								
Csg.	15.50 5 1/2"		Depth	3486.64		Street									

Tbg. Size			Depth	16' LIS		City	State								
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									

Cement Left in Csg.	37.78'		Shoe Joint	37.78'		Cement Amount Ordered	175 Com 10% Salt 5% Gilsol								
Meas Line			Displace	82 1/4 BLS		500 Gal mud Clear 48									

**EQUIPMENT**

Pumptrk	16	No.	Cement Helper	David											
Bulktrk	13	No.	Driver	Doug											
Bulktrk	p.u.	No.	Driver	Rick											

**JOB SERVICES & REMARKS**

Remarks:	marker Jt between 10 + 11													
Rat Hole	20 sx													
Mouse Hole	30 sx													
Centralizers	1, 7, 10, 13													
Baskets	2													
D/V or Port Collar	pipe on bottom break													
Circulation pump mud flush														
plug Rat + mousehole's Hook														
to 5 1/2" + mix 125 sx Cement														
Shut down + wash pump + lines														
Displaced plug w/ 82 1/4 BLS H2O														
Released + held.														

**FLOAT EQUIPMENT**

Guide Shoe														
Centralizer	5													
Baskets	1													
AFU Inserts														
Float Shoe	1													
Latch Down	1													

Lift pressure 700 #  
Land plug to 1500 #

Pumptrk Charge	prod string													
Mileage	40													
Tax														
Discount														
Total Charge														

Thanks

X Signature Tom Beem



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Federal Tax I.D.# 20-2886107

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

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

No. 2809

Date	4-26-22	Sec.	S 18	Range	10	County	Rice	State	Ks	On Location		Finish	10:30pm
------	---------	------	------	-------	----	--------	------	-------	----	-------------	--	--------	---------

Lease Habiger Location Clafin 4 1/2 E S into

Well No. 2 Owner To Quality Oilwell Cementing, Inc.

Contractor Discovery 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. 394' Depth 394' Street

Csg. 8 5/8" 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 30/60 20/60

Meas Line Displace 23 3/4 lbs

**EQUIPMENT**

Pumptrk <u>16</u> No. Cementer <u>Jordan</u>	Common <u>18 1/4</u>
Bulktrk <u>14</u> No. Driver <u>Douglas</u>	Poz. Mix <u>35</u>
Bulktrk <u>p.u.</u> No. Driver <u>Rick</u>	Gel. <u>3</u>
	Calcium <u>7</u>

**JOB SERVICES & REMARKS**

Remarks: Cement did Circulate

Rat Hole Flowseal

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Handling 190

Mileage

**FLOAT EQUIPMENT**

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 40

Signature [Signature] Tax

Discount

Total Charge

Thanks



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

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

No. 2816

Date	5-1-22	Sec.	5	Twp.	18	Range	10	County	Rice	State	KS	On Location	Finish
													10:00 PM

Lease	Habiger	Well No.	2	Location	Claflin - 4 1/2 E, S/Into
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Contractor	Discovery #2	Owner	To Quality Oilwell Cementing, Inc.
Type Job	Surface	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	

Hole Size	7 7/8"	T.D.	3500'	Charge To	Patterson Energy
Csg.	15.50 5 1/2"	Depth	3486.64	Street	

Tbg. Size	Depth	16' LIS	City	State
Tool	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	

Cement Left in Csg.	37.78'	Shoe Joint	37.78'	Cement Amount Ordered	175 Com 10% Salt 5% Gilsont
Meas Line	Displace	82 1/4 BLS	500 Gal mud	Clear	48

**EQUIPMENT**

Pumptrk	16	No.	Cement	Helper	David	Common	175
Bulktrk	13	No.	Driver	Driver	Daug	Poz. Mix	
Bulktrk	p.u.	No.	Driver	Driver	Rick	Gel.	
						Calcium	

**JOB SERVICES & REMARKS**

Remarks:	marker Jt between 10 + 11	Hulls	Salt	14
Rat Hole	20 sx	Flowseal		
Mouse Hole	30 sx	Kol-Seal	750	
Centralizers	1, 7, 10, 13	Mud CLR	48	
Baskets	2	CFL-117 or CD110 CAF	38	500 gal
D/V or Port Collar	pipe on bottom break	Sand		
	Circulation pump mud flush	Handling	191	
	plug Rat + mousehole's Hook	Mileage		
	to 5 1/2" + mix 125 sx Cement			
	Shut down + wash pump + lines			
	Displaced plug w/ 82 1/4 BLS H2O			
	Released + held.			

**FLOAT EQUIPMENT**

Lift pressure	700	#	Guide Shoe	1
Land plug to	1500	#	Centralizer	5
			Baskets	1
			AFU Inserts	
			Float Shoe	1
			Latch Down	1

Pumptrk Charge	prod string	Tax
Mileage	40	Discount
Thanks		Total Charge

X Signature Tom Beem



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**JOB SERVICES & REMARKS**

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Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Handling 190

Mileage

**FLOAT EQUIPMENT**

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 40

Signature [Signature] Tax

Discount

Total Charge

Thanks




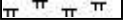
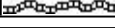




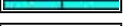
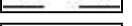
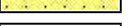
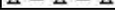






### Comments

The Habiger #2 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Travis Schmidt).

The Habiger #2 well was drilled for utilization as a salt-water disposal well. Drill time was recorded, and rock samples were collected and evaluated from 2,700' - 3,500'. Several Lansing zones contained good porosity development with oil staining (see below). Good porosity development and fair oil shows were also encountered in the upper Arbuckle. Structurally, the LKC top was picked 5' low to the Habiger #1. Structure thickened significantly just below the B/KC and the Arbuckle top was picked 53' low to the comparison well. On May 2, 2022, 5-1/2" casing was set on Habiger #2.

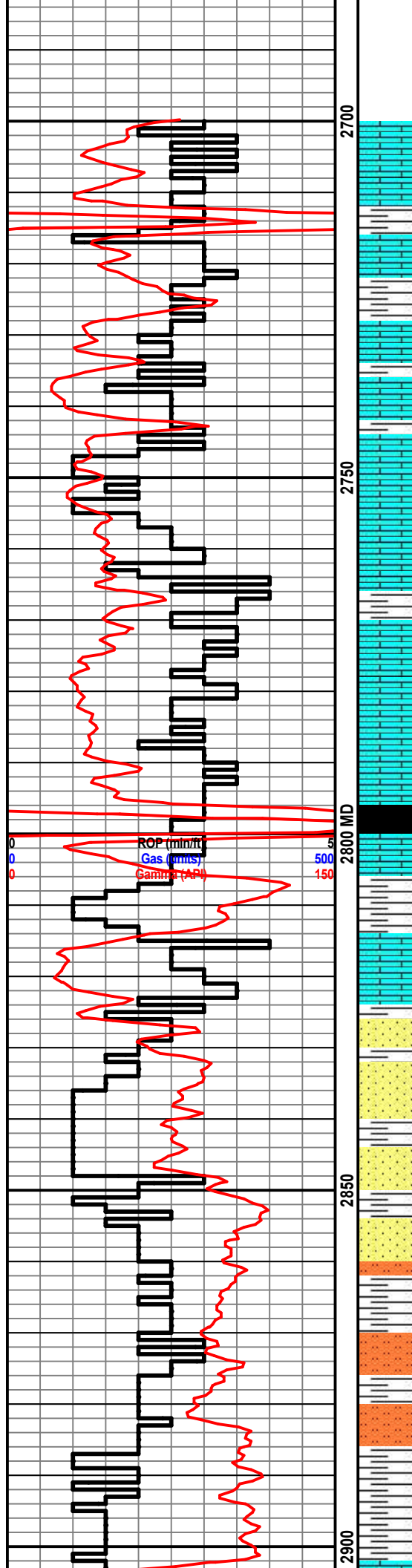
### ROCK TYPES

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

### OTHER SYMBOLS

<b>POROSITY</b>	<input checked="" type="checkbox"/> Vuggy	<b>ROUNDING</b>	<input type="checkbox"/> Spotted	<b>EVENT</b>
<input type="checkbox"/> Earthy	<b>SORTING</b>	<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	<b>INTERVAL</b>	<input type="checkbox"/> Core
<input type="checkbox"/> Inter		<input type="checkbox"/> Angular		<input type="checkbox"/> Dst
<input type="checkbox"/> Moldic	<input type="checkbox"/> Well	<b>OIL SHOW</b>		
<input type="checkbox"/> Organic	<input type="checkbox"/> Moderate	<input type="checkbox"/> Even		
<input type="checkbox"/> Pinpoint	<input type="checkbox"/> Poor			

Curve Track 1	MD	Lithology	Geological Descriptions	DST/Mud/Survey																								
ROP (min/ft) <span style="color: black;">——</span> Gas (units) <span style="color: blue;">- - - -</span> Gamma (API) <span style="color: red;">——</span>																												
0 ROP (min/ft) 50 0 Gas (units) 500 0 Gamma (API) 150	2600		The open-hole logging was performed by Mr. Gus Pfanenstiel with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density Neutron, Dual Induction, and Microresistivity.	Mud Engineer: Brandon Mendez																								
4/26/2022 Spud @ 12:00pm			Formation tops and datums from the open-hole logs include the following:																									
4/27/2022 431', drilling																												
4/28/2022 1,806', drilling																												
4/29/2022 2,538', drilling																												
4/30/2022 3,036', drilling																												
5/1/2022 3,500', CTCH																												
5/2/2022 3,500', completed	2650																											
				<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>Heebner</td><td>2796</td><td>-1013</td></tr> <tr><td>Toronto</td><td>2815</td><td>-1032</td></tr> <tr><td>Brown Lime</td><td>2916</td><td>-1133</td></tr> <tr><td>Lansing</td><td>2931</td><td>-1148</td></tr> <tr><td>B/KC</td><td>3200</td><td>-1417</td></tr> <tr><td>Arbuckle</td><td>3265</td><td>-1482</td></tr> <tr><td>LTD</td><td>3500</td><td>-1717</td></tr> </tbody> </table>	Formation	E-Log	Datum	Heebner	2796	-1013	Toronto	2815	-1032	Brown Lime	2916	-1133	Lansing	2931	-1148	B/KC	3200	-1417	Arbuckle	3265	-1482	LTD	3500	-1717
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LTD	3500	-1717																										



Sh: lt-drk gry

Ls: tan-gry, fn-sub xln, scat chert-off wh

Ls: ala

Ls: tan-gry, fn-sub xln, DNS, scat chert-off wh, scat sh: drk gry

**Heebner 2798' (-1015)**

Sh: blk, carb

Sh: lt gry

**Toronto 2816' (-1033)**

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

Ss: lt gry, vry fn gm, md, fair int gm porosity, friable, scat sh: lt gry

Ss: ala

Ss: lt gry, fn gm, md, scat fair int gm porosity, friable, scat sh: lt-drk gry

Sltst: ala, scat sh: lt gry

Sltst: ala

Sh: lt-drk gry

Wt: 8.6  
Vis: 68



**Brown Lime 2920' (-1137)**

Ls: tan-bm, fn xln, poor int xln porosity, scat chert

**Lansing 2935' (-1152)**

Ls: tan-gry, fn-sub xln, poor int xln porosity, scat chalk, NSFO, scat chert

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

Sh: lt-drk gry

Wt: 9.1  
Vis: 53

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

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

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, fair bm stn, VSSFO, fair odor, scat foss

Sh: lt-drk gry

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, good oom porosity, scat lt bm oil stn, VSSFO, sl odor

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

Ls: off wh-tan, fn-sub xln, mostly DNS, scat chert-off wh

Sh: lt-drk gry

Ls: off wh-tan-lt gry, fn xln, ool, scat foss, fair int foss porosity, scat oil stn, VSSFO, fnt odor

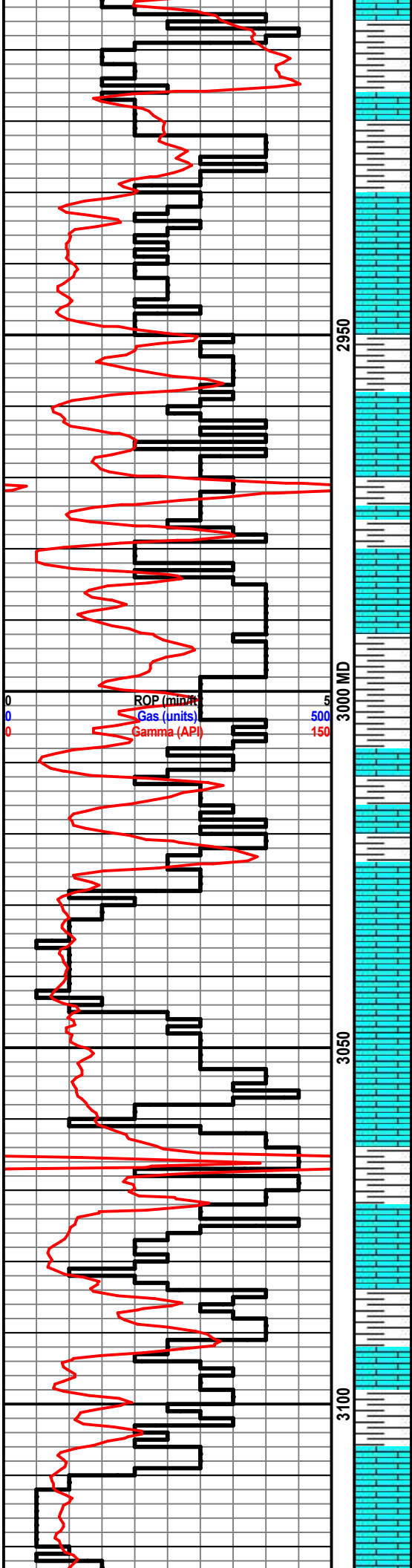
Sh: lt gry

Ls: off wh-tan-lt gry, fn xln, scat foss, no visible porosity, NSFO

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

Wt: 9.1  
Vis: 53

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



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

Sh: lt-drk gry

Ls: off wh-tan-lt gry, fn xln, foss, fair int xln porosity, scat dead oil stn, NSFO

3150

Ls: ala

Sh: drk gry-blk

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO

3200 MD

**B/KC 3203 (-1420)**

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

50  
500  
150

Sh: gry-gm

Ls: off wh, fn-sub xln, DNS, hvy chert-opq

3250

Sh: lt gry-gm

**Arbuckle 3266' (-1483)**

Dolo: off wh-tan, fn-md xln, fair int xln porosity, fair lt bm oil stn, SSFO, fair odor

Dolo: off wh-tan-bm, fn-md, few pcs crs sucrosic xln, good sucrosic xln porosity, vry lt bm oil stn, F-SSFO, sl-fair odor

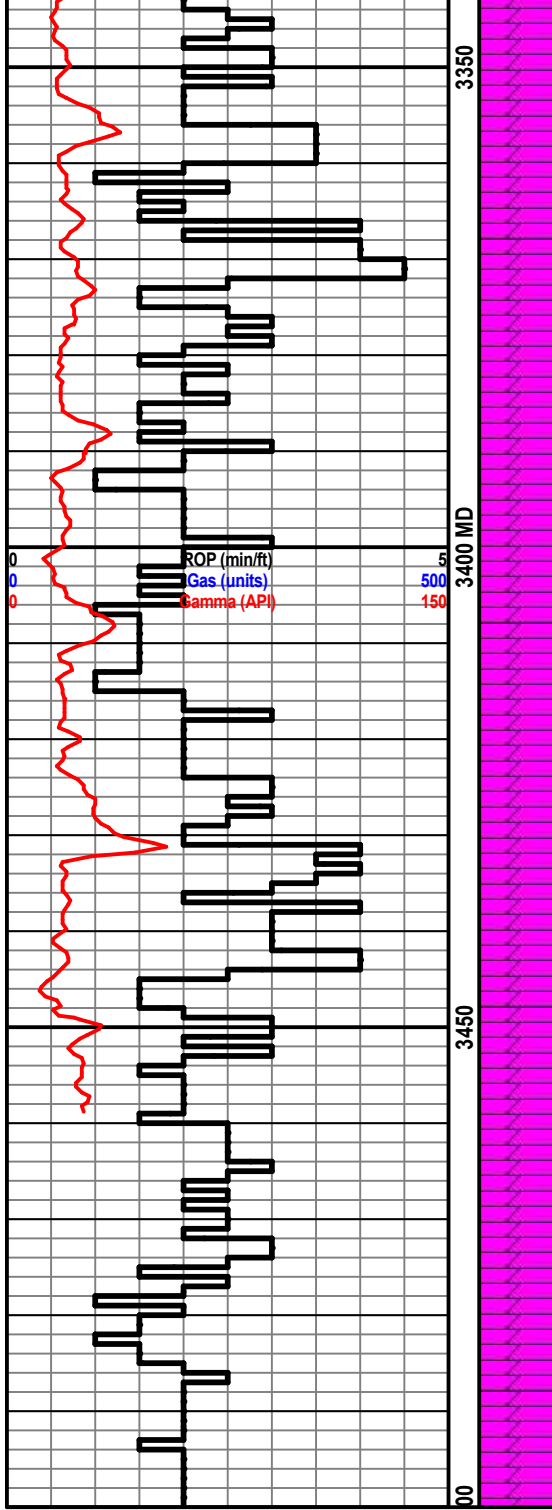
Dolo: off wh-tan, md-crs xln, fair int xln porosity, scat lt bm oil stn, NSFO, scat chert

3300

Dolo: off wh-tan-bm, md-crs xln, fair-good int xln porosity, barren, scat chert-off wh

Dolo: ala





Dolo: off wh-lt gry, md-crs xln, fair-good int xln porosity, barren, scat chert-off wh

Dolo: off wh-tan, fn-md xln, scat sucr, fair-good sucr xln porosity, scat snd, NSFO

Dolo: off wh-lt gry, fn-md xln, sucr, fair-good sucr xln porosity, more abd snd, sub md, friable, fair-good int gm porosity, NSFO

Dolo: off wh-lt gry, fn-md xln, snd, fairly md, fair sorting, fair-good int gm porosity, friable, NSFO

Dolo: ala

Dolo: ala