

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

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. 1824

Date	11-11-19	Sec.	35	Twp.	10	Range	21	County	Corralvaca	State	KS	On Location		Finish	8:30p
								Location							
								Palco S C.O. Line SW 380 1/2 E into							

Lease	Ziegler	Well No.	2-35	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	WV #108	Bottom Stage		Charge To	Patterson Energy
Type Job	DV Job	Hole Size	7 7/8	T.D.	3250
Csg.	5 1/2 17#	Depth	3751	Street	
Tbg. Size		Depth		City	State
Tool	DV Tool 54	Depth	1573	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	23	Shoe Joint	23	Cement Amount Ordered 150 10' salt 5' Gilsarte	

Meas Line	Displace	86 1/2 BCL	500 gal mud clear 10 BCL KCL
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EQUIPMENT

Pumptrk	17	No.	Cementor Craig	Helper		Common	150
Bulktrk	9	No.	Driver T.M	Driver Lance		Poz. Mix	
Bulktrk	21	No.	Driver	Driver Tony L.		Gel.	
				Calcium			

JOB SERVICES & REMARKS

Remarks:	Hulls	KCL 1 gal
Rat Hole	Salt	13
Mouse Hole	Flowseal	
Centralizers	Kol-Seal	750#
Baskets	Mud CLR 48	500 gal
D/V or Port Collar	CFL-117 or CD110 CAF 38	
5 1/2 size 3749 Baskets 3728.	Sand	170
Est. Circulation Pump 500 gal mud clear & 10 BCL KCL. Mix 150 SK & Displace.	Handling	
Displace 54 BCL water 27 BCL mud & 5 BCL water to land plug.	Mileage	

FLOAT EQUIPMENT

Guide Shoe	Limit Clamp
Centralizer	6
Baskets	2
AFU Inserts	DV Tool
Float Shoe	1
Latch Down	1

Cement top stage 9:30p

Thanks

Bottom stage

Pumptrk Charge	prod string	
Mileage	37	
		Tax
		Discount
		Total Charge

X Signature Ann Weavering

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. 1825

Date <u>11-11-19</u>	Sec. <u>35</u>	Twp. <u>10</u>	Range <u>21</u>	County <u>Leavenworth</u>	State <u>KS</u>	On Location	Finish <u>10:00pm</u>
				Location <u>Palo S.C.O. line SW 380 1/2 E into</u>			

Lease <u>Zeigler</u>	Well No. <u>2-35</u>	Owner
Contractor <u>Ww 108</u>	<u>Top Stage</u>	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 <u>DV Job</u>		
Hole Size <u>7 1/8</u>	T.D. <u>3750</u>	Charge To <u>Datterson Energy</u>
Csg. <u>5 1/2 17#</u>	Depth <u>3751</u>	Street
Tbg. Size	Depth	City State
Tool <u>DV Tool</u>	Depth <u>1573</u>	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <u>350 80/20 QMDC 1/4#110</u>

Meas Line	Displace <u>36 1/2 BCL</u>	
EQUIPMENT		
Pumptrk <u>17</u> No.	Cement Helper <u>Tim</u>	Common <u>350 80/20 QMDC</u>
Bulktrk No.	Driver <u>Tim</u>	Poz. Mix
Bulktrk <u>21</u> No.	Driver <u>Tony L</u>	Gel.
		Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole <u>309K</u>		Flowseal <u>87#</u>
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
<u>5 1/2 sec @ 3751.</u>		Handling <u>350</u>
<u>DV Tool 1573.</u>		Mileage
<u>Plug Retrol. 309K</u>		
<u>Cement 5 1/2 with 309K.</u>		
<u>Displace Plug.</u>		
<u>Cement + Circulated.</u>		
<u>Plug landed @ 1200#</u>		

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Thanks

Pumptrk Charge <u>37 miles</u>	
Mileage <u>prod string Top stage</u>	
Tax	
Discount	
Total Charge	

X Signature Don Weavering

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. 1822

Date	11-6-19	Sec.	35	Twp.	10	Range	21	County	Carahgan	State	KS	On Location		Finish	10000
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Location *Palo 5 C.O. Line SW 3800' 1/2' E into*

Lease *Zeigler* Well No. *2-35* Owner

Contractor *Ww 108* To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
Type Job *Surface* cementer and helper to assist owner or contractor to do work as listed.

Hole Size *12 1/4* T.D. *240* Charge To *Patterson Energy*

Csg. *8 5/8* Depth *239* 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. *10'* Shoe Joint Cement Amount Ordered *150 8 5/8 3 1/2 2 1/2 1/2*

Meas Line Displace *14 1/2 BCL*

EQUIPMENT

Pumptrk	17	No.	Cementer		Common	<i>120</i>
			Helper	<i>mcg</i>		
			Driver	<i>tm</i>	Poz. Mix	<i>30</i>
Bulktrk		No.	Driver		Gel.	<i>3</i>
			Driver		Calcium	<i>6</i>
Bulktrk	9	No.	Driver	<i>Tom L</i>		

JOB SERVICES & REMARKS

Remarks: Halls

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

8 5/8 on bottom. Est. Circulation. Handling *159*

Mix 150SK x Displace Mileage

Cement Circulated

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge *Surface*

Mileage *37*

X Signature *[Signature]*


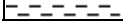
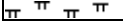
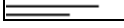
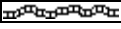




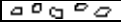

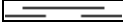

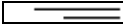
Tax
Discount
Total Charge

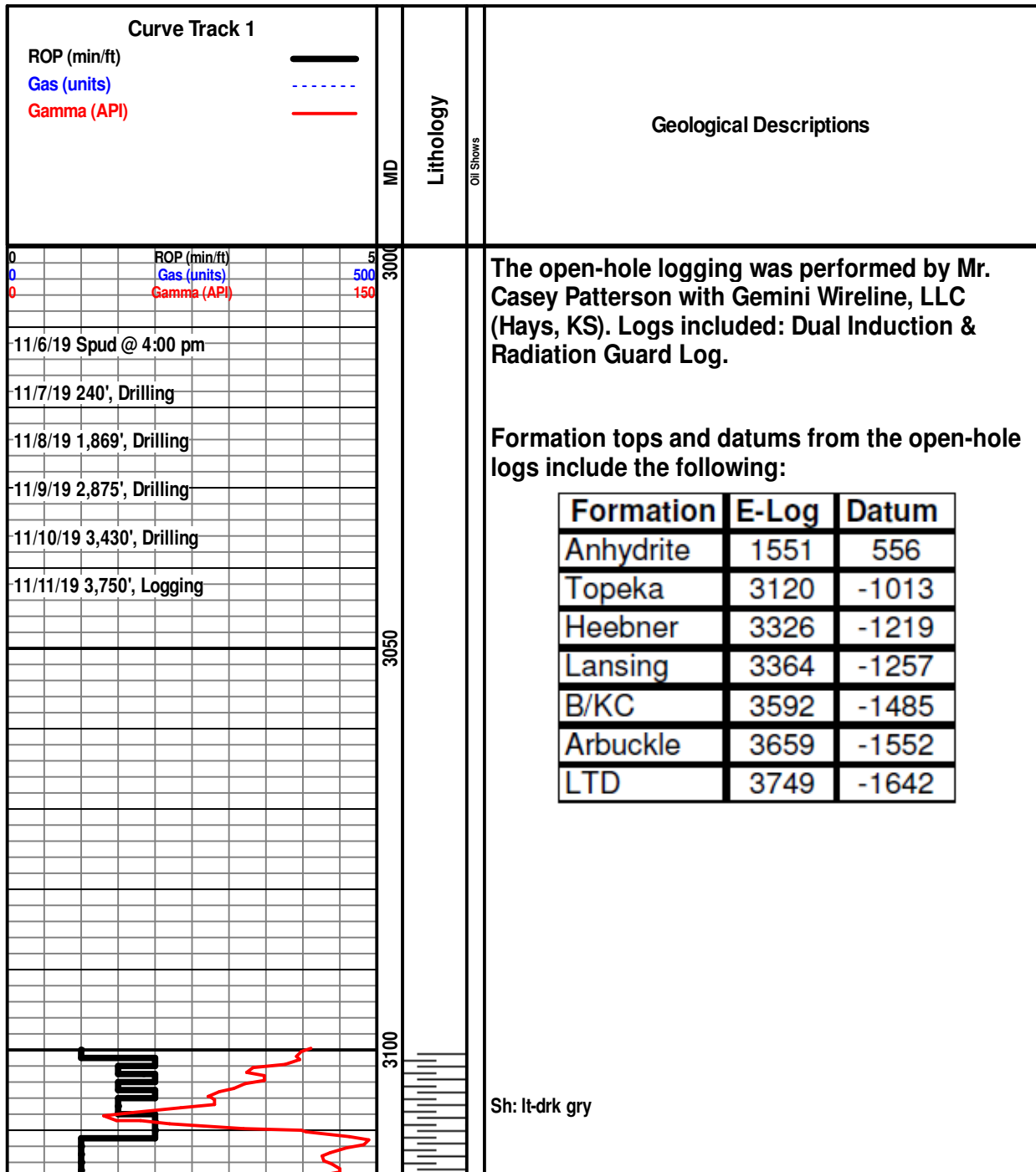
Comments

The Zeigler #2-35 well was drilled by Murfin Rig #108.

The location for the Zeigler #2-35 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 3,000'-3,750'. Oil shows were encountered in the LKC B,C,F,G,I,J,K and Arbuckle. Structurally, the Lansing top was picked 8' high to the comparison well, 660' to the north (Zeigler #2 - Harry Gore, 1953). Structure remained relatively consistent through the LKC, which resulted in an Arbuckle top 8' high to the comparison well. Fair-good oil shows were observed throughout the top 30' of the Arbuckle. All Lansing-Kansas City oil shows should also be evaluated prior to P&A. After complete evaluation of all oil shows and electric logs, it was decided that 5 1/2" production casing be set to further test the Zeigler #2-35 on 11/11/19.

ROCK TYPES

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



Topeka 3122' (-1015)

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

Sh: lt-drk gry, soft

Ls: off wh-tan-bff, fn xln, poor-fair int xln & vuggy porosity, sl oil stn, fair odor

Sh: lt-drk gry

Sh: ala

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

Ls: off wh-tan-bff, fn xln, foss, scat int foss porosity, scat dead oil stn, sl odor

Sh: lt-drk gry, soft

Sh: lt gry, scat soft

Ls: off wh-tan-bff, fn-sub xln, scat foss

Sh: ala

Sh: lt-drk gry

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

Ls: off wh-tan-bff, fn xln, scat foss, poor-fair int xln porosity, scat oil stn, sl-fair odor

Sh: lt gry

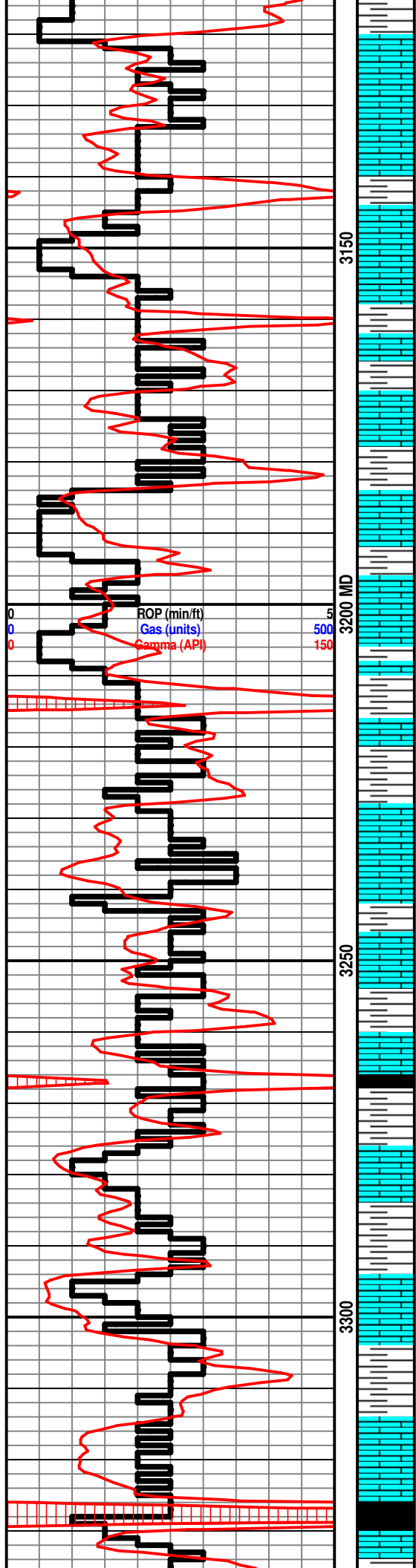
Ls: off wh-tan, fn xln, fair int xln porosity, scat-fair oil stn, sl-fair odor

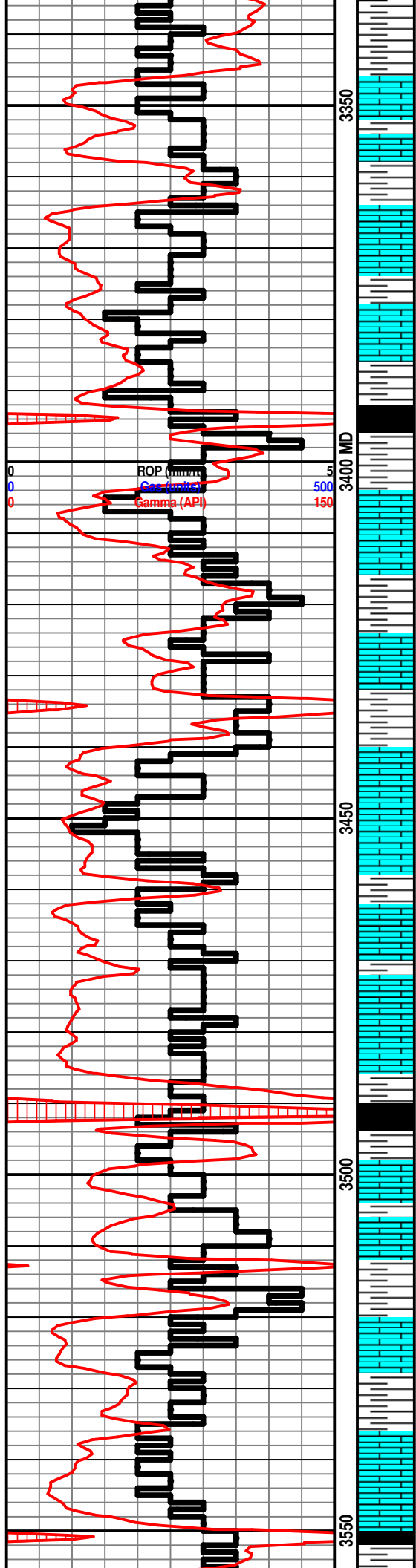
Sh: lt-drk gry

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

Heebner 3328' (-1221)

Sh: blk, carb, fissile





Sh: lt-drk gry

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

Lansing 3364' (-1257)

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

Ls: off wh-tan, fn xln, poor-fair int xln & vuggy porosity, scat-fair oil stn, VSSFO, fair odor, scat chert-off wh

Sh: lt-drk gry

Ls: off wh-tan, fn xln, poor int xln & vuggy porosity, few rxns w/ good vuggy porosity, fair oil sat, SSFO, fair odor

Sh: lt gry

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

Sh: lt gry

Ls: off wh-tan, fn xln, poor int xln, sl dead oil stn, NSFO, scat chalk

Ls: off wh-tan, fn xln, scat-fair int xln & vuggy porosity, lt-fair oil sat, sl-fair odor

Ls: off wh-tan, fn xln, fair int xln & vuggy porosity, few rxns fossil w/ fair int foss porosity, scat fair oil sat, SSFO, sl odor

Ls: off wh-tan, fn xln, mostly DNS, chalky

Sh: drk gry-blk

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

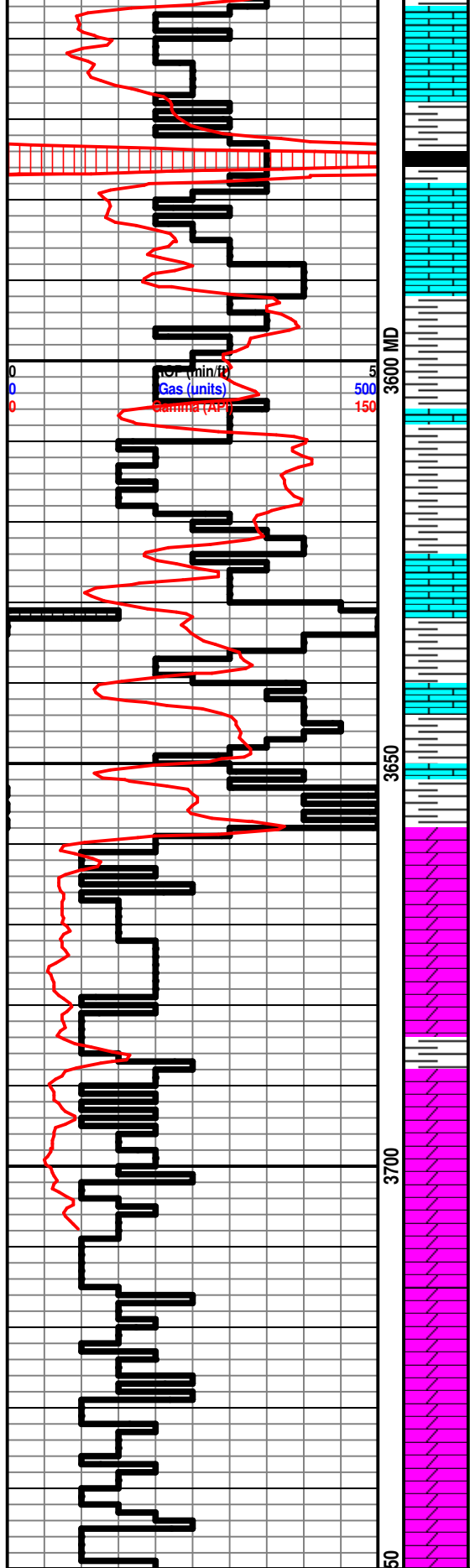
Sh: lt gry-brn

Ls: off wh-tan, fn xln, poor-fair int xln porosity, scat edge stn, sl odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, poor-fair int xln & scat vuggy porosity, scat fair oil stn, SSFO, scat chert

Sh: drk gry-blk



Ls: off wh-tan, fn xln, poor-fair int xln & scat vuggy porosity, fair oil stn, SSFO in cup, sl-fair odor

Sh: lt-drk gry

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

B/KC 3597' (-1490)

Sh: lt-drk gry-brn

Ls: tan-lt gry, fn xln, scat congl, scat sh: drk gry-brn

Sh: lt-drk gry-brn, soft

Ls: tan-lt gry, fn-sub xln, mostly DNS, scat congl, scat sh: drk gry-brn, soft

Sh: lt-drk gry-brn, soft

Ls: lt gry, fn-sub xln, mostly DNS, scat congl, scat sh: drk gry-brn

Arbuckle 3658' (-1551)

Dolo: off wh-tan, fn xln, poor-fair int xln porosity, fair-good oil sat, S-FSFO, fair odor

Dolo: off wh-tan, fn xln, few rxns fn-md xln, fair-good sucrosic xln porosity, good oil sat, S-FSFO, fair-good odor, scat chert-off wh

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

Dolo: off wh-tan, fn-md xln, poor-fair int xln porosity, mostly DNS rxns, sl-fair oil stn, SSFO, fair odor

Dolo: off wh-tan-brn, fn xln, poor int xln porosity, scat oil stn, scat chert-off wh

Dolo: off wh-tan-brn, fn xln, few rxns w/ poor int xln porosity, mostly DNS, NSFO, scat chert-off wh

Dolo: off wh-tan-brn, fn-md xln, mostly DNS, NSFO, scat chert-off wh