

Form	ACO1 - Well Completion
Operator	Patterson Energy LLC
Well Name	SOEKEN 'A' 8
Doc ID	1742015

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	676	Common	300	10% Salt 4% Gel
Production	7.875	5.5	15.50	3546	Common	150	10%Salt 5# Gilsonite



416 Main Street
P.O. Box 225
Victoria, KS 67671
Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Invoice

Date	Invoice #
11/21/2023	1125

Please Pay from this Invoice.
Remit Payment to:
416 Main Street PO BOX 225
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949
Email: franksoilfield@yahoo.com

KCC License Number
35469

Bill To
Patterson Energy, LLC PO Box 400 Hays, KS 67601-0400

County/State	Lease/Well#	Terms	Job Type
Barton County, KS	Socken A 8	Net 30	Long String

Description	Quantity	Rate	Amount
Pump Charge	1	950.00	950.00
Mileage	40	6.50	260.00
10.67 tons at 40 miles	426.8	1.50	640.20
Class A 10% salt, 5 Kolseal	150	27.00	4,050.00T
60/40 4% gel 1/4# floseal	50	17.35	867.50T
5-1/2" Guide Shoe AFU	1	475.00	475.00T
5-1/2" Latchdown Plug & Assembly	1	475.00	475.00T
5-1/2" Turbalizer Centralizers	6	80.00	480.00T
5-1/2" Basket	2	275.00	550.00T
51/2 Limit Clamp	2	35.00	70.00T
Mud Flush	500	1.00	500.00T
KCL	2	30.00	60.00T
Discount		-468.89	-468.89

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

We appreciate your business and look forward to serving you again!

Subtotal	\$8,908.81
Sales Tax (7.5%)	\$536.33
Balance Due	\$9,445.14

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 1125
LOCATION Hoxie KS
FOREMAN Seck

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-21-23		Sorben "A" 8	15	17S	11	Barton
CUSTOMER Patterson Energy						
MAILING ADDRESS						
CITY		STATE	ZIP CODE			

TRUCK #	DRIVER	TRUCK #	DRIVER
103	Connor D.		
201	Seck T.		

JOB TYPE long string HOLE SIZE 7 7/8" HOLE DEPTH 3548' CASING SIZE & WEIGHT 5 1/2" 15.5#
CASING DEPTH 3542' DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Rig up on Discovery. Trip in hole w/ 5 1/2" casing. Circulate to thin mudstone. Pump mudflush + KCL. Plug rethole w/ 30 sacks. mudstone w/ 20 sacks. mix 150 sacks cement 10% salt 5" galonite work up lines. Displace w/ 83 1/2 Bbls. bond plug. Release to truck - hole.

Thank you!

Seck & crew.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC001		PUMP CHARGE	\$950.00	\$950.00
MO01	40	MILEAGE	\$6.50	\$260.00
MO03	10.47 tons	Ton mileage delivery	\$140.20	\$140.20
CB031	150 sacks	Class A 10% salt 5" Kalgeral	\$27.00	\$4050.00
CB010	50 sacks	10/40 4% gel 1/4" flow seal	\$17.35	\$867.50
FC033	1	5 1/2" AFU gunline shoe	\$475.00	\$475.00
FC051	1	5 1/2" latch down plug ass.	\$475.00	\$475.00
FL014	1	5 1/2" turbolizer	\$80.00	\$480.00
FL027	2	5 1/2" basket	\$275.00	\$550.00
FC02	2	5 1/2" limit clamp	\$35.00	\$70.00
CP012	500 gal.	mud flush	\$1.00	\$500.00
CP014	2 gal.	KCL	\$30.00	\$60.00
			sub total	\$9,377.70
			less 5% disc.	\$468.89
			sub total	\$8,908.81
			SALES TAX	536.33

ESTIMATED TOTAL 9445.14

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



416 Main Street
P.O. Box 225
Victoria, KS 67671
Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Invoice

Date	Invoice #
11/17/2023	1122

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KCC License Number
35469

Bill To
Patterson Energy, LLC PO Box 400 Hays, KS 67601-0400

County/State	Lease/Well#	Terms	Job Type
Barton County, KS	Socken A 8	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	950.00	950.00
Mileage	40	6.50	260.00
14.17 tons at 40 miles	566.8	1.50	850.20
80/20 3%CC 2% Gel	300	20.90	6,270.00T
Discount		-416.51	-416.51

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

Subtotal \$7,913.69

We appreciate your business and look forward to serving you again!

Sales Tax (7.5%) \$446.74

Balance Due \$8,360.43

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671

◆ 24 Hour Phone (785) 639-7269

◆ Office Phone (785) 639-3949

◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 1122

LOCATION Maxie

FOREMAN Jack

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-17-23	34888	Soeken "A" 8	15	17	11	Barton
CUSTOMER Patterson Energy LLC						
MAILING ADDRESS PO BOX 400						
CITY Hays	STATE KS	ZIP CODE 67601				
			TRUCK #	DRIVER	TRUCK #	DRIVER
			103	CD		
			201	CK		
			Pickup	Jack		

JOB TYPE Surface HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 40.44 DISPLACEMENT PSI 400 MIX PSI _____ RATE _____

REMARKS: Safety meeting & set up. Circulated mud & hooked up. Mixed cement & displaced without sending up plug!

Thank you & appreciate!

cement was light in cellar.

came back ran 1" down backside tagged hard cement 7' down from surface.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PUMP CHARGE	1	Surface	\$950.00	\$950.00
MILEAGE	40		\$6.50	\$260.00
TMD	14.17		\$850.20	\$850.20
CBOT	300 SK	80/20 306 2 1/2 gal	\$20.90	\$6,270.00
			sub total	\$8,330.20
			less 5% disc.	\$416.51
			sub total	\$7,913.69
			SALES TAX	446.74
			ESTIMATED TOTAL	8360.43

AUTHORIZATION _____ TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

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:	Soeken A #8		
API:	15-009-26412		
Location:	Barton County		
License Number:		Region:	Kansas
Spud Date:	11/16/2023	Drilling Completed:	11/21/2023
Surface Coordinates:	Section 15, Township 17 South, Range 11 West		
	770' FSL & 1,154' FWL		
Bottom Hole Coordinates:	Vertical well w/ minimal deviation, same as above		
Ground Elevation (ft):	1,841	K.B. Elevation (ft):	1,849
Logged Interval (ft):	2,500	To: 3,546	Total Depth (ft): 3,549
Formation:	Topeka - Arbuckle		
Type of Drilling Fluid:	Chemical (Andy's Mud)		

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: 370 W. Wichita Ave.
Russell, KS 67665

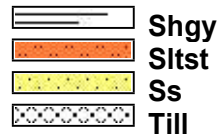
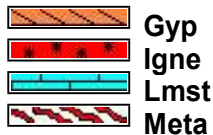
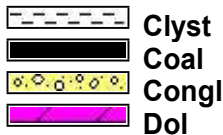
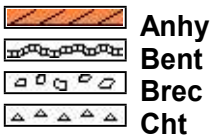
Comments

The Soeken A #8 well was drilled by Discovery Drilling Company Rig #2 (Tool Pusher: Travis Schmidt).

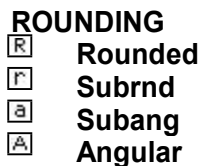
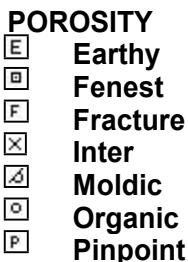
The Soeken A #8 was drilled for salt-water disposal purposes. Drill time was recorded, and rock samples were collected and evaluated from 2,500' - 3,549'. Structurally, the LKC top was picked 1' high to the comparison well, located approx. 600' east (Soeken #7, Zinszer Oil Comp. 2011). The structure thickened in the lower Lansing and the Arbuckle top was picked 2' low to the comparison well.

Upon conclusion of the open-hole logs, 5-1/2" casing was set on the Soeken A #8 on November 21, 2023.

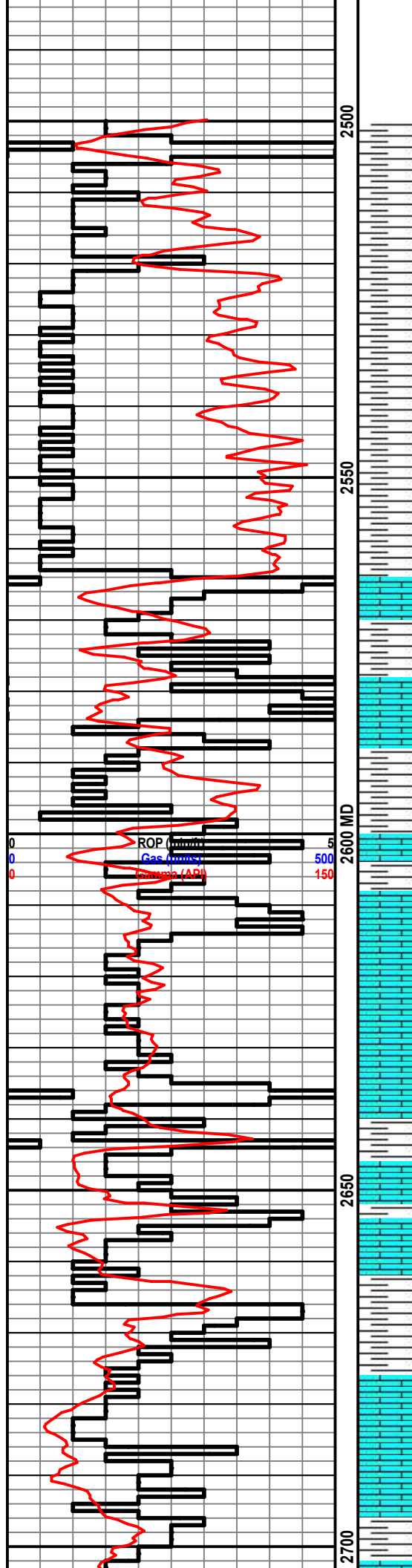
ROCK TYPES



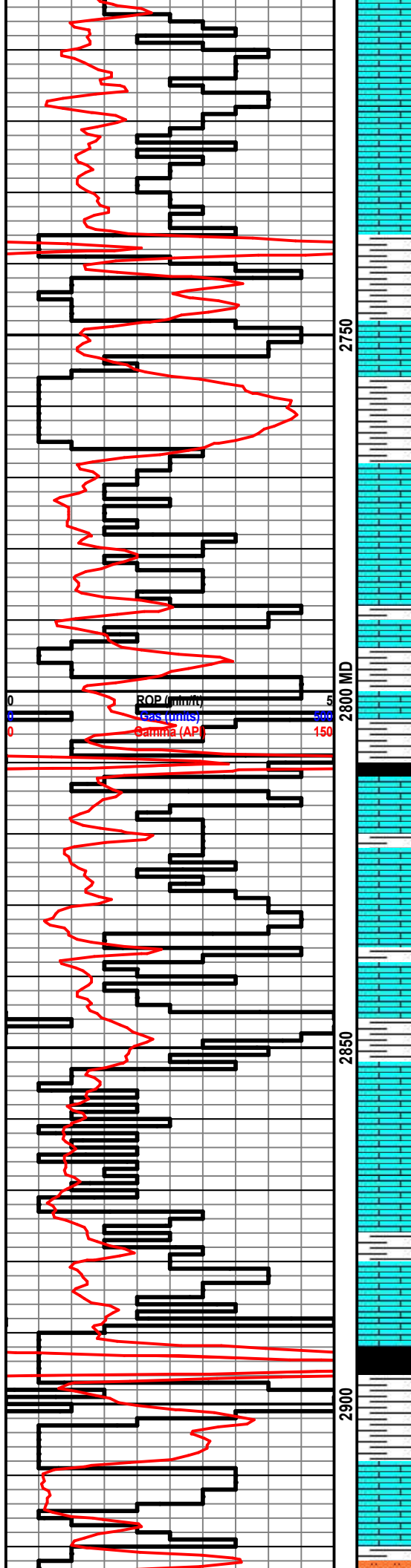
OTHER SYMBOLS



Curve Track 1					MD	Lithology	Oil Shows	Geological Descriptions	DST/Mud/Survey																														
ROP (min/ft)																																							
Gas (units)																																							
Gamma (API)																																							
0	ROP (min/ft)		5	2400				<i>The open-hole logging was performed by Mr. Colby Dreiling with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density Neutron, Dual Induction, and Microresistivity.</i> <i>Formation tops and datums from the open-hole logs include the following:</i> <table><tr><th>Formation</th><th>E-Log</th><th>Datum</th></tr><tr><td>Anhydrite</td><td>658</td><td>1191</td></tr><tr><td>Topeka</td><td>2565</td><td>-716</td></tr><tr><td>Heebner</td><td>2892</td><td>-1043</td></tr><tr><td>Toronto</td><td>2909</td><td>-1060</td></tr><tr><td>Lansing</td><td>3010</td><td>-1161</td></tr><tr><td>B/KC</td><td>3249</td><td>-1400</td></tr><tr><td>Arbuckle</td><td>3274</td><td>-1425</td></tr><tr><td>Reagan</td><td>3441</td><td>-1592</td></tr><tr><td>Granite Wash</td><td>3500</td><td>-1651</td></tr></table>	Formation	E-Log	Datum	Anhydrite	658	1191	Topeka	2565	-716	Heebner	2892	-1043	Toronto	2909	-1060	Lansing	3010	-1161	B/KC	3249	-1400	Arbuckle	3274	-1425	Reagan	3441	-1592	Granite Wash	3500	-1651	Mud Engineer: Brandon Mendez *No Drill Stem Tests
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Anhydrite	658	1191																																					
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0	Gas (units)		500																																				
0	Gamma (API)		150																																				
DAILY ACTIVITY:																																							
11/16/2023: Spud 12-1/4" @ 11:45am																																							
11/17/2023: 676', drilling																																							
11/18/2023: 1,520', drilling																																							
11/19/2023: 2,664', drilling																																							
11/20/2023: 3,232', drilling																																							
11/21/2023: 3,549', TOOH for Logs																																							



LTD	3549	-1700
Sh: lt-drk gry		
Sh: ala		
Topeka 2563' (-714)		
Ls: tan-lt gry, fn xln, DNS		
Ls: ala		
Sh: lt-drk gry		
Ls: tan-lt gry, fn xln, poor int xln porosity, mostly DNS		
Ls: ala		
Sh: lt-drk gry		
Ls: tan-gry, fn xln, poor-scat fair int part porosity, barren, scat chert: off wh		
Sh: lt-drk gry-bm		
Ls: tan-lt gry, fn xln, foss, scat fair int xln porosity, barren, scat chert		



Ls: ala

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

Sh: drk gry-blk

Sh: lt-drk gry, bm

Ls: tan-lt gry, fn xln, fair int part porosity, barren

Sh: lt gry

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

Ls: ala, scat sh: lt gry

Ls: tan-lt gry, fn xln, scat pp & int xln porosity, barren

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

Ls: ala

Sh: lt gry-bm

Heebner 2889' (-1040)

Sh: blk, carb

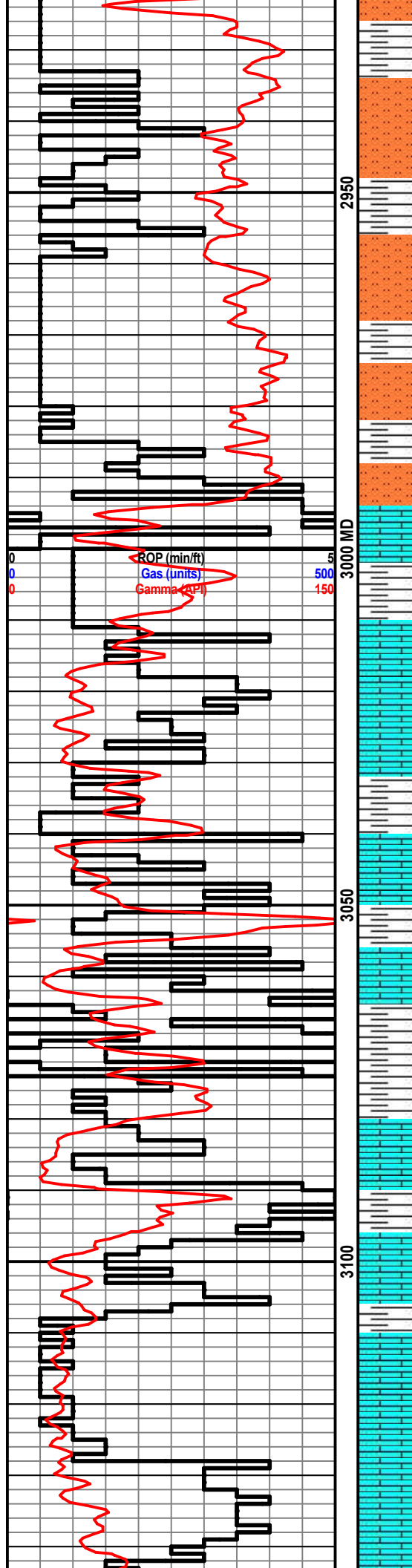
Sh: drk gry-bm

Toronto 2909' (-1060)

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

Douglas 2920' (-1071)

Wt: 57
Vis: 8.7



Sh: lt gry-bm-gm, soft

Sha: ala, slstn

Sh: lt gry-bm, sltstn

Sh, Sltstn: ala

Ls: off wh-tan, fn-sub xln, vry DNS, barren

Lansing 3011' (-1162)

Ls: tan-lt gry, fn xln, foss, ool, poor int xln porosity, barren, NSFO

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

Sh: lt-drk gry

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

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

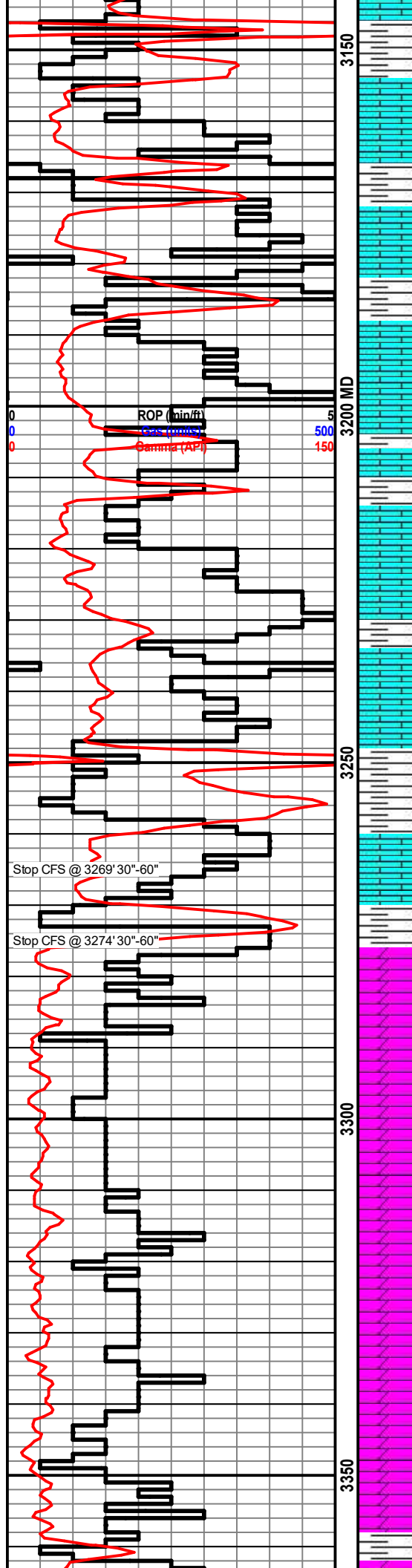
Sh: lt-drk gry

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

Ls: off wh-tan, fn xln, foss, scat fair int foss porosity in few rxs, sl-fair oil stn in porosity, SSFO, sl odor

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

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



Sh: lt-drk gry

Ls: tan, fn xln, scat ool, fair oom porosity, NSFO

Sh: lt gry

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

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

Ls: ala, DNS

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

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

Ls: tan-gry, fn xln, scat vuggy porosity, barren, scat
chalk

B/KC 3247 (-1398)

Sh: lt-drk gry

Ls: tan-gry-bm, fn-sub xln, DNS, scat cong, scat sh: drk
gry-gm

Arbuckle 3273' (-1426)

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

Dolo: off wh-tan, fn-md, few rxs crs rhomb xln, fair-good
int xln porosity, lt-fair oil stn, FSFO, good odor

Dolo: off wh-tan, md-crs rhomb xln, good int xln
porosity, vry lt oil stn in porosity, SSFO, fair-good odor

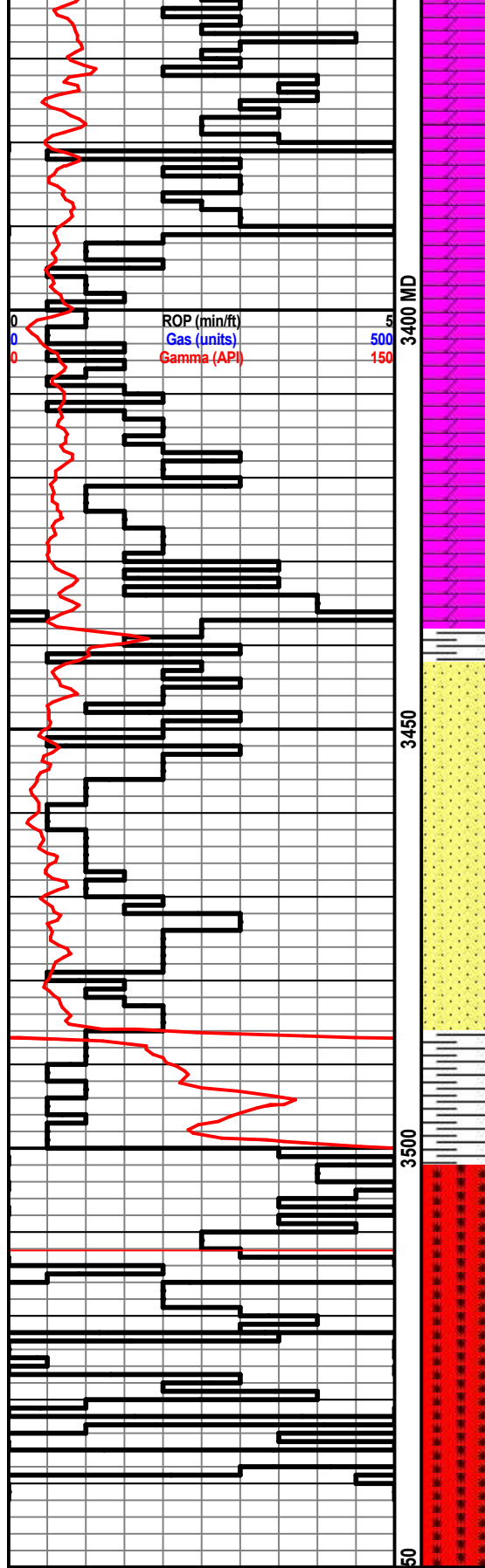
Dolo: off wh-tan, md-crs xln, good int xln porosity, lt oil
stn, NSFO, scat chert: off wh, scat sh

Dolo: off wh-tan, fn-md xln, fair-good int xln porosity,
baren, scat chert: off wh, chalky

Dolo: ala

Dolo: off wh-tan, fn-md xln, fair-good int xln porosity,
baren, scat chert: off wh, chalky, scat sh: drk gry

Wt: 8.9
Vis: 54



Dolo: off wh-tan-lt gry, fn-md xln, poor-fair int xln porosity, barren, chalky, scat chert: off wh, scat sh: drk gry

Dolo: ala

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

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

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

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

Reagan 3440' (-1591)

Ss: off wh-clr, fn-md gm, md, poor-fair sorting, friable, good int gm porosity, barren

Ss: ala

Ss: off wh-clr, fn-md gm, md, fair sorting, friable, good int gm porosity, barren

Granite Wash 3500' (-1651)

Qtz: clr-orange, vry DNS, scat mica: blk

Qtz: clr-pink, vry DNS, mafic int, scat mica: blk

Qtz: ala