KOLAR Document ID: 1590552

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 # 5135
Name: Farmer, John O., Inc.
Address 1: 370 W WICHITA AVE
Address 2: PO BOX 352
City: RUSSELL State: KS Zip: 67665 + 0352
Contact Person: Marge Schulte
Phone: (785) 483-3145
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Austin Klaus
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 #:

07/30/2021 Spud Date or Recompletion Date
08/03/2021 Date Reached TD
09/10/2021 Completion Date or Recompletion Date

API No.: 15-179-21474-00-00
Spot Description: SE SE SE NW
SE - SE - SE - NW Sec. 30 Twp. 8 S. R. 26 ☐ East ☑ West
2470 Feet from ☑ North / ☐ South Line of Section
2710 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Sheridan
Lease Name: SUTOR-ZIEGLER Well #: 10
Field Name: Overlook
Producing Formation: Lansing
Elevation: Ground: 2569 Kelly Bushing: 2577
Total Vertical Depth: 4000 Plug Back Total Depth: 3952
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2193 Feet
If Alternate II completion, cement circulated from: 2193
feet depth to: 0 w/ 325 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 3000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated

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: 09/15/2021
☐ **Confidential Release Date:** 09/15/2023
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrison **Date:** 10/05/2021

Operator Name: Farmer, John O., Inc. Lease Name: SUTOR-ZIEGLER Well #: 10

Sec. 30 Twp. 8 S. R. 26 ☐ East ☑ West County: Sheridan

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	2186	(+391)
Topeka	3457	(-880)
Heebner	3664	(-1087)
Toronto	3684	(-1107)
Lansing	3696	(-1119)
B/KC	3918	(-1341)
L.T.D.	3995	(-1418)

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	221	80/20 Pozmix	150	3% C.C., 2% gel
Production	7.875	5.50	15.50	3995	SMDC	150	0

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: 09/15/2021	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* awaiting UIC approval					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	3888	3992

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	3888	3992			250 gals.15% MCA & 1500 gals. 15% NE

TUBING RECORD:	Size:	Set At:	Packer At:
	2.375	3875	3875

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	SUTOR-ZIEGLER 10
Doc ID	1590552

All Electric Logs Run

Micro Resistivity
Compensated Density Neutron
Dual Induction
Cement Bond

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	SUTOR-ZIEGLER 10
Doc ID	1590552

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	221	80/20 Pozmix	150	3% C.C., 2% gel
Production	7.875	5.50	15.50	3995	SMDC	150	0

Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135
370 West Wichita Avenue - P.O. Box 352
Russell, KS 67665 + 0352

Contractor: Discovery Drilling Co., Inc. LIC#31548
PO Box 763
Hays, KS 67601

Lease: Sutor - Ziegler # 10

Location: 2400 FNL - 2640 FEL
S/2/ S/2/ S/2/ N/2
Section 30/ 8S/ 26W
Sheridan County, KS

Loggers Total Depth: 3995'
Rotary Total Depth: 4000'
Commenced: 7/30/2021
Casing: 8 5/8" @ 221' W/150sks
5 1/2" @ 3995'W/150sks
DV Tool @ 2193'W/325sks
(Circulated 50sks to Pit)

API#15- 179-21,474-00-00
Elevation: 2569 Gl - 2577 KB
Completed: 8/4/2021
Status: Oil Well

DEPTHS & FORMATIONS
(All from KB)

Surface, Sand & Shales	0'	Shale	2233'
Dakota Sand	1236'	Shale & Lime	2562'
Shale	1365'	Shale	2780'
Cader Hill Sand	1747'	Shale & Lime	3053'
Red Bed Shale	1965'	Lime & Shale	3670'
Anhydrite	2188'	RTD	4000'
Base Anhydrite	2233'		

STATE OF KANSAS))
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm

Subscribed and sworn to before me on 8-17-2021

My Commission expires: 6-28-2022

(Place stamp or seal below)

Myrna S. Hoffman
Notary Public

NOTARY PUBLIC STATE OF KANSAS
MYRNA S. HOFFMAN
NOTARY PUBLIC
STATE OF KANSAS
My App. Exp 6-28-2022

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Home Office P.O. Box 32 Russell, KS 67665 No. 2345

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-30-21	30	8	26	Sheridan	Ks		5:30pm

Location Studley 6W ½S 1E 1¾E

Lease Suhor-Ziegler B Well No. 10

Contractor Discovery 4

Type Job Surface

Hole Size 12¼ T.D. 222

Csg. 8⅝ Depth

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 15 Shoe Joint

Meas Line Displace 13

EQUIPMENT

Pumptrk	No.	Cementer	Bill
		Helper	
Bulktrk	No.	Driver	David
		Driver	
Bulktrk	No.	Driver	
		Driver	Doug

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Ran 5 Jts 8⅝ set @ 221

Cemt w/ 180 sx Cemt.

Pump 15 bbls of water

Cemt did Circ.

Thanks

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.

Charge To JO Farmer Inc.

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 180 60/40 3-2

Common	145	
Poz. Mix	35	
Gel.	3	
Calcium	6	
Hulls		
Salt		
Flowseal		
Kol-Seal		
Mud CLR 48		
CFL-117 or CD110 CAF 38		
Sand		
Handling	189	
Mileage		
FLOAT EQUIPMENT		
Guide Shoe		
Centralizer		
Baskets		
AFU Inserts		
Float Shoe		
Latch Down		
Pumptrk Charge	Surface	
Mileage	20	
Tax		
Discount		
Total Charge		

X Signature Thomas

Thanks

JOB LOG

SWIFT Services, Inc.

DATE 8-4-21 | PAGE NO.

CUSTOMER: JOHN O FARMER | WELL NO.: #10 | LEASE: SUTOR-ZIEGLER | JOB TYPE: 2 STAGE | TICKET NO.: 35185

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1400							ON LOCATION
								5½ CSG 15.5#
								RTD - 4000
								CENTRALIZERS - 1, 3, 5, 7, 9, 11, 46, 66, 72
								BASKETS - 9, 44, 67, 73
								D.V. TOOL - 2193
								TOTAL PIPE - 3995
								BAFFIE @ 3957
	0150							START Running Csg
	0415							Break circ on Btm
	0500	5.5	12			300		pump MUD FLUSH - 500 GAL
		5.5	20			300		pump KCL spacer
								TAKE on MUD FOR DISP
		5	0			300		START CMT - 75 SX @ 12.7 PPG
		5	27			300		Raise Wgt to 14.5 for 75 SX
		5	46			300		END CMT
								WASH P&L
		5.5	0					START DISP
	0540	5.5	94			800		LAND Plug @ 1500#
								Release PSI - Dry
								Drop D.V opening TOOL
								WASH TRK
						800		Open D.V. TOOL
	0600							Circulate For 1 Hr
	0700	2	8			0		Plug RAT Hole - 30 SX
		2	4			0		Plug MOUSE Hole - 15 SX
		6	130			300		pump CMT - 235 SX @ 11.2 PPG
								Drop plug
								START DISP
		5	26			300		Circ CMT - 50 SX to pit
	0800	5	52			700		LAND plug @ 1500 psi
								Release psi - Dry
								THANKS
								DAVID ZACH & ISAAC

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:	Sutor-Ziegler #10
API:	15-179-21474-00-00
Location:	Sheridan County
License Number:	
Region:	Kansas
Spud Date:	7/30/2021
Drilling Completed:	8/3/2021
Surface Coordinates:	Section 30-Township 8 South-Range 26 West 2,470' FNL & 2,710' FEL
Bottom Hole Coordinates:	Vertical well w/ minimal deviation, same as above
Ground Elevation (ft):	2,569
K.B. Elevation (ft):	2,577
Logged Interval (ft):	3,200 To: RTD
Total Depth (ft):	4,000
Formation:	Topeka-Lansing-Kansas City
Type of Drilling Fluid:	Chemical (Andy's Mud)

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

OPERATOR

Company:	John O. Farmer, Inc.
Address:	370 W. Wichita Ave. Russell, KS 67665

Comments

The Sutor-Ziegler #10 well was drilled by Discovery Drilling Rig #4 (Tom Alm).

The Sutor-Ziegler #10 was drilled to serve as a water-injection well for secondary oil recovery on the Sutor-Ziegler Unit (4 active producing wells). Structurally, this well ran as expected, according to 3D seismic. The Lansing-Kansas City and Toronto tops were picked 2' low to the comparison well (Sutor #6, 3,630' FSL & 2,970' FEL). Geologic samples were collected and 1' drill time was recorded from 3,400'-4,000'. The geologist noted good development with oil shows in the Toronto, Lansing A,C,F,H,J, & K zones. 5 1/2" production casing was set on August 4, 2021 to prepare this well for water injection.

ROCK TYPES

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

OTHER SYMBOLS

POROSITY
- E Earthy
- Fenest
- F Fracture
- I Inter
- M Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING
- W Well
- M Moderate
- P Poor

ROUNDING
- R Rounded
- r Subrnd
- a Subang
- A Angular

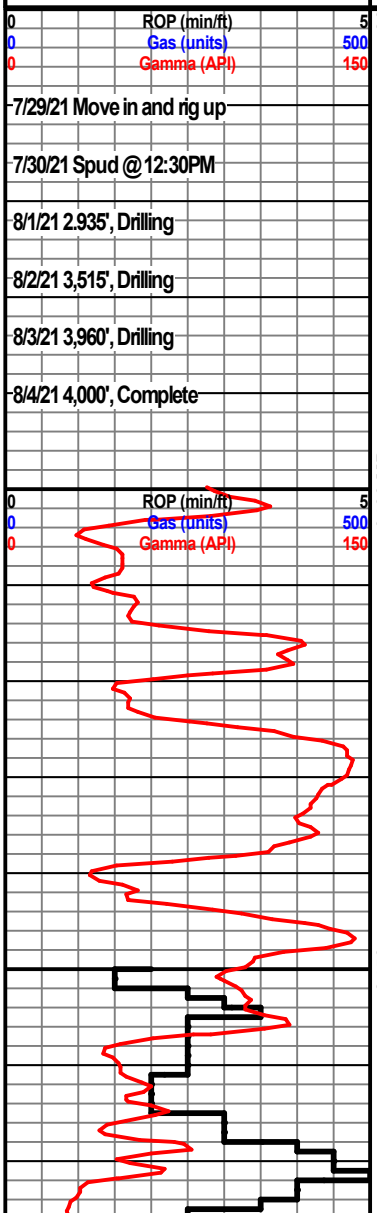
OIL SHOW
- Even
- Spotted
- Ques
- D Dead

INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall

Curve Track 1
ROP (min/ft)
Gas (units)
Gamma (API)

MD | Lithology | Oil Shows | Geological Descriptions | DST/Mud/Survey



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.

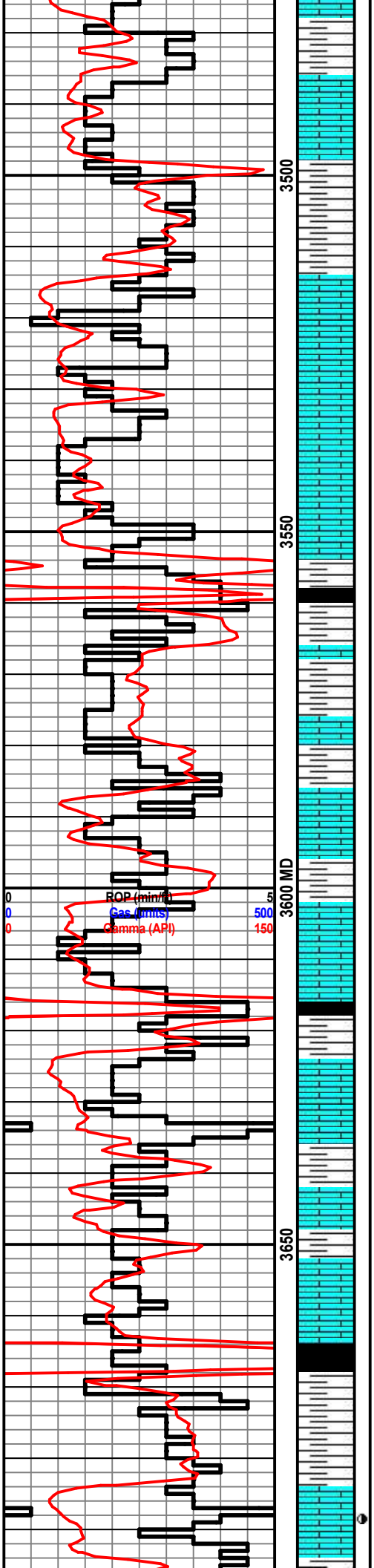
Formation tops and datums from the open-hole logs include the following:

Formation	E-Log	Datum
Anhydrite	2186	391
Topeka	3457	-880
Heebner	3664	-1087
Toronto	3684	-1107
Lansing	3696	-1119
B/KC	3918	-1341
LTD	3995	-1418

Wt: 8.7
Vis: 58

Topeka 3464' (-887)

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



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

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

Sh: lt-drk gry

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

Ls: ala

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

Ls: off wh-tan, fn xln, scat int xln porosity, scat foss, sl chalky

Sh: blk

Sh: lt-drk gry-brn

Wt: 9
Vis: 48

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

Sh: lt-drk gry

Sh: lt-drk gry-blk

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

Sh: lt-drk gry

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

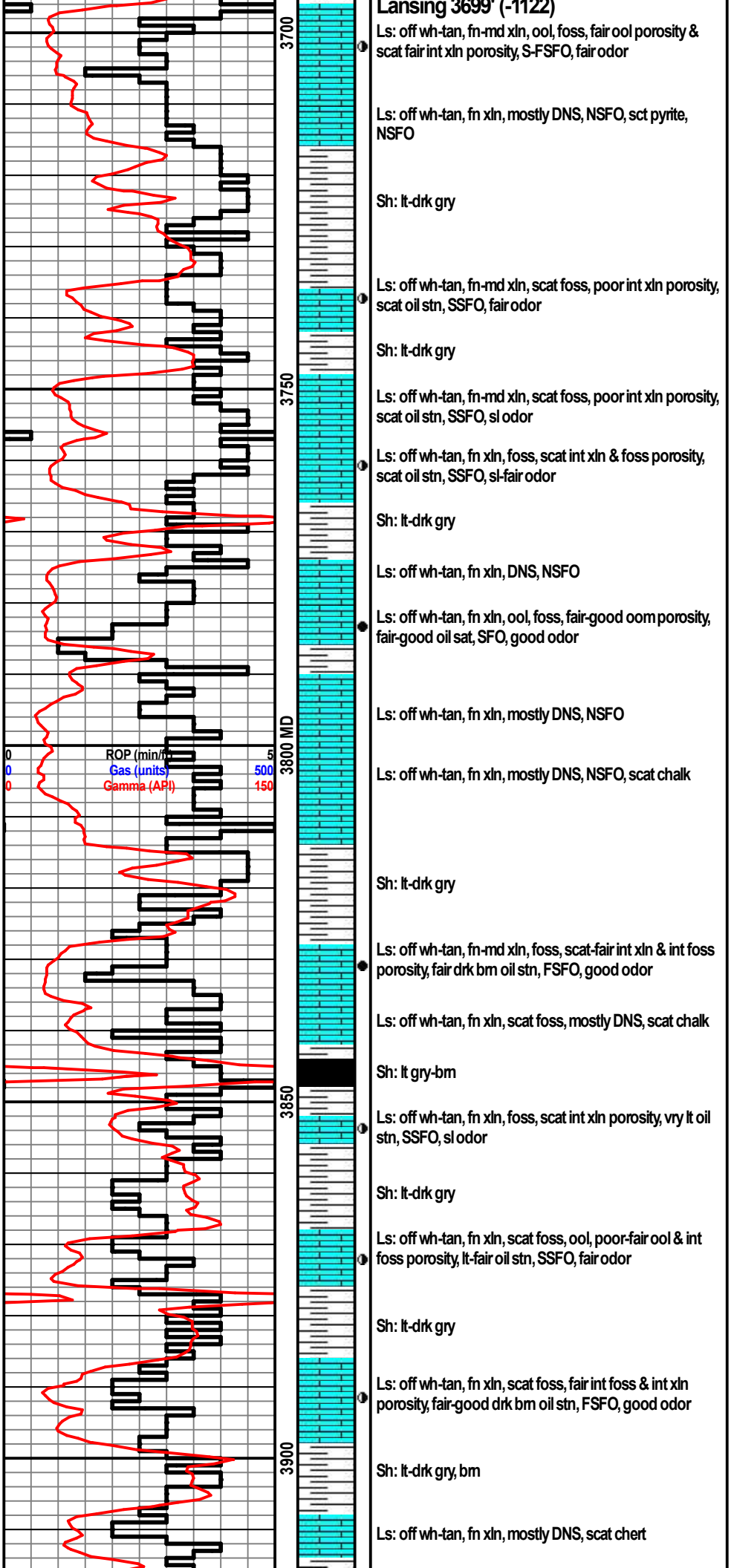
Heebner 3667' (-1090)

Sh: blk, carb, fissile

Sh: lt-drk gry

Toronto 3687' (-1110)

Ls: off wh-tan, fn xln, poor, few pcs w/ fair int xln porosity, lt brn oil stn in porosity, SSFO, sl odor



Lansing 3699' (-1122)

Ls: off wh-tan, fn-md xln, ool, foss, fair ool porosity & scat fair int xln porosity, S-FSFO, fair odor

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

Sh: lt-drk gry

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

Sh: lt-drk gry

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

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

Sh: lt-drk gry

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

Ls: off wh-tan, fn xln, ool, foss, fair-good oom porosity, fair-good oil sat, SFO, good odor

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

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

Sh: lt-drk gry

Ls: off wh-tan, fn-md xln, foss, scat-fair int xln & int foss porosity, fair drk brn oil stn, FSFO, good odor

Ls: off wh-tan, fn xln, scat foss, mostly DNS, scat chalk

Sh: lt gry-brn

Ls: off wh-tan, fn xln, foss, scat int xln porosity, vry lt oil stn, SSFO, sl odor

Sh: lt-drk gry

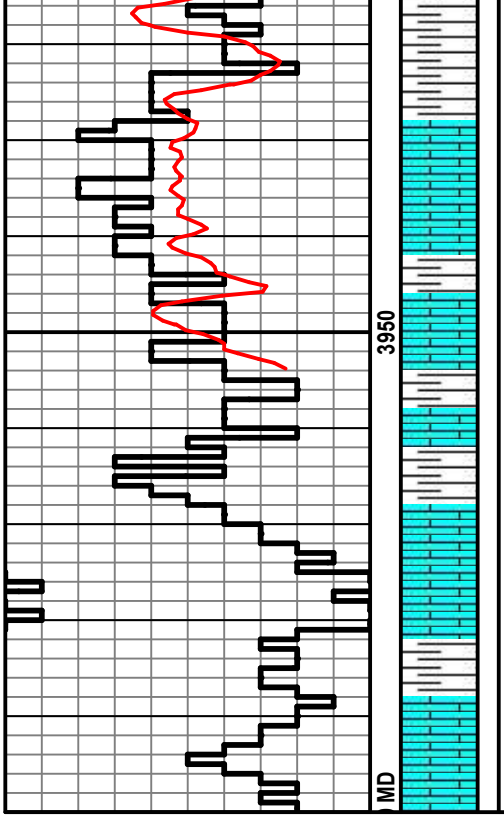
Ls: off wh-tan, fn xln, scat foss, ool, poor-fair ool & int foss porosity, lt-fair oil stn, SSFO, fair odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, scat foss, fair int foss & int xln porosity, fair-good drk brn oil stn, FSFO, good odor

Sh: lt-drk gry, brn

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



B/KC 3923' (-1346)

Sh: lt-drk gry-brn

Ls: tan-gry, fn-sub xln, mostly DNS, scat sh: drk gry-brn, ss: off wh-lt brn, fn gm, silty, scat glauc, poor int gm porosity, NSFO

Ls: off wh-tan

Sh: lt-drk gry, brn

Ls: off wh-tan, fn xln, NSFO, scat chert

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

Wt: 9.4
Vis: 62