Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1267167

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33813
Name: Jason Oil Company, LLC
Address 1: 3718-183RD ST
Address 2: PO BOX 701
City: RUSSELL State: KS Zip: 67665 + 0701
Contact Person: Sheldon Weigel
Phone: (785) 483-4204
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Jeff Lawler
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

09/25/2015 Spud Date or Recompletion Date
09/25/2015 Date Reached TD
09/30/2015 Completion Date or Recompletion Date

API No. 15 - 15-167-24037-00-00
Spot Description:
SE - NW - NW - SE Sec. 4 Twp. 14 S. R. 11 ☐ East ☑ West
2272 Feet from ☐ North / ☑ South Line of Section
1985 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: Russell
Lease Name: Curtiss Well #: #1
Field Name:
Producing Formation: NA
Elevation: Ground: 1776 Kelly Bushing: 1783
Total Vertical Depth: 3350 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 471 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: 5000 ppm Fluid volume: 4500 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:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 10/12/2015

1267167

Operator Name: Jason Oil Company, LLC Lease Name: Curtiss Well #: #1

Sec. 4 Twp. 14 S. R. 11 ☐ East ☑ West County: Russell

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

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

Name	Top	Datum
Attached	Attached	Attached

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	20	3250	COM	230	PO2 4% Gel 1/4 Flo

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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Jason Oil Company, LLC
Well Name	Curtiss #1
Doc ID	1267167

All Electric Logs Run

Dual Induction
Radiation Guard
Compensated Density NeutronMicro Resistivity
Micro Resistivity

Form	ACO1 - Well Completion
Operator	Jason Oil Company, LLC
Well Name	Curtiss #1
Doc ID	1267167

Tops

Name	Top	Datum
Grand Haven	2218	-435
Tarkia Lm	2297	-514
Topeka	2500	-717
Heebner	2817	-1034
Totonto	2838	-1055
Douglas Sh	2838	-1068
Brown Lm	2907	-1124
LKC	2926	-1143
BKC	3189	-1406
Arbuckle	3275	-1492

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1175

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-26-15	4	14	11	Russell	KS		12:15 Am

Location: Dorrance I-70 1/2 N to Homer Rd 2 1/2 E 1/2 S W into

Lease Curtiss	Well No. 1	Owner	
Contractor Southwind	3	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 12 1/4	T.D. 471	Charge To Jason Oil	
Csg. 8 5/8	Depth 471	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.	Shoe Joint 15	Cement Amount Ordered 225 3%cc 2%gel	
Meas Line	Displace 29 bbls		

EQUIPMENT

	No.		
Pumptrk 18	No.	Cementer / Helper	Travis
Bulktrk 14	No.	Driver / Driver	Doug
Bulktrk Pu	No.	Driver / Driver	Billy

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar
Cement Did Circulate

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Wood Plug	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X
Signature [signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No. 1045**
Cell 785-324-1041

	Sec.	Twp.	Range	County	State	On Location	Finish
Date 9-30-15	4	14	11	Russell	KS		2:30 PM

Location Distance 1N 2½ E

Lease Curtiss Well No. #1

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 Southwind #3

Type Job Plug

Hole Size 7 7/8 T.D. 3270

Charge To Jason Oil

Csg. Drill Pipe Depth

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. Shoe Joint

Cement Amount Ordered 230 60/40 4% Gel ¼ Flo

Meas Line Displace

EQUIPMENT

Pumptrk 18 No. Cementer / Helper Travis

Bulktrk 21 No. Driver / Driver Doug

Bulktrk PU No. Driver / Driver Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30 sks

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

1st Plug @ 3250 w/ 25 sks

2nd Plug @ 650 w/ 50 sks

3rd Plug @ 400 w/ 90 sks

4th Plug @ 40 w/ 10 sks

Quality Oilwell Cementing

Common	
Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	
8 5/8 **FLOAT EQUIPMENT**	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Wood Plug	
Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature Jay Klein

DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
CRTSS1DST1

Company Jason Oil Company, LLC Lease & Well No. Curtiss No. 1

Elevation 1783 KB Formation Lansing/Kansas City "D" Effective Pay -- Ft. Ticket No. M795

Date 9-29-15 Sec. 4 Twp. 14S Range 11 County Russell State Kansas

Test Approved By Jeff Lawler Diamond Representative Mike Cochran

Formation Test No. 1 Interval Tested from 2,988 ft. to 3,020 ft. Total Depth 3,020 ft

Packer Depth 2,983 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 2,988 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 2,977 ft. Recorder Number 5448 Cap. 5,000 psi.

Bottom Recorder Depth (Outside) 2,990 ft. Recorder Number 0063 Cap. 5,000 psi.

Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 3

Mud Type Chemical Viscosity 55

Weight 9.2 Water Loss 7.2 cc.

Chlorides 2,600 P.P.M.

Jars: Make Sterling Serial Number Not Run

Did Well Flow? No Reversed Out No

Drill Collar Length -- ft I.D. -- in

Weight Pipe Length -- ft I.D. -- in.

Drill Pipe Length 2,963 ft I.D. 3 1/2 in.

Test Tool Length 25 ft Tool Size 3 1/2-IF in

Anchor Length 32 ft. Size 4 1/2-FH in.

Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong, surface blow increasing. Off bottom of bucket in 11 mins. 40 secs. No blow back during shut-in.

2nd Open: Weak, surrface blow increasing. Off bottom of bucket in 14 mins. 30 secs. No blow back during shut-in.

Recovered 1/2 ft. of slightly gas cut, mud cut, oily water = .007115 bbls. (Grind out: 2%-gas; 34%-oil; 52%-water; 12%-mud)

Recovered 381 ft. of very slightly oil specked, gas & mud cut water = 5.421630 bbls. (Grind out: 1%-gas; 85%-water; 14%-mud w/some specks of oil)

Recovered 381.5 ft. of TOTAL FLUID = 5.428745 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 1%-gas; 95%-water; 4%-mud w/some specks of oil (Chlorides: 74,000 Ppm PH: 7.0 RW: .16 @ 61°)

Time Set Packer(s) 1:45 A.M. Time Started off Bottom 3:45 A.M. Maximum Temperature 101°

Initial Hydrostatic Pressure.....(A) 1460 P.S.I.

Initial Flow Period.....Minutes 30 (B) 18 P.S.I. to (C) 109 P.S.I.

Initial Closed In Period.....Minutes 30 (D) 844 P.S.I.

Final Flow Period.....Minutes 30 (E) 116 P.S.I to (F) 195 P.S.I.

Final Closed In Period.....Minutes 30 (G) 825 P.S.I.

Final Hydrostatic Pressure.....(H) 1447 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	JASON OIL COMPANY, LLC	Job Number	M795
Well Name	CURTISS #1	Representative	MIKE COCHRAN
Unique Well ID	DST #1 LKC "D" 2988-3020	Well Operator	JASON OIL COMPANY, LLC
Surface Location	SEC 4-14S-11W RUSSELL CO. KS.	Report Date	2015/09/29
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JEFF LAWLER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL
Formation	DST #1 LKC "D" 2988-3020
Test Purpose (AEUB)	Initial Test

Start Test Date	2015/09/29	Start Test Time	00:20:00
Final Test Date	2015/09/29	Final Test Time	05:25:00
		Well Fluid Type	01 Oil

Gauge Name	5448
Gauge Serial Number	

Test Results

Remarks **RECOVERED:**

TOP ~HALF FOOT: SGCMCOW 2% GAS, 34% OIL, 52% WTR, 12% MUD
381' VSOSGMCW 1% GAS, 85% WTR, 14% MUD W/ SOME SPECKS OF OIL
381.5' TOTAL FLUID

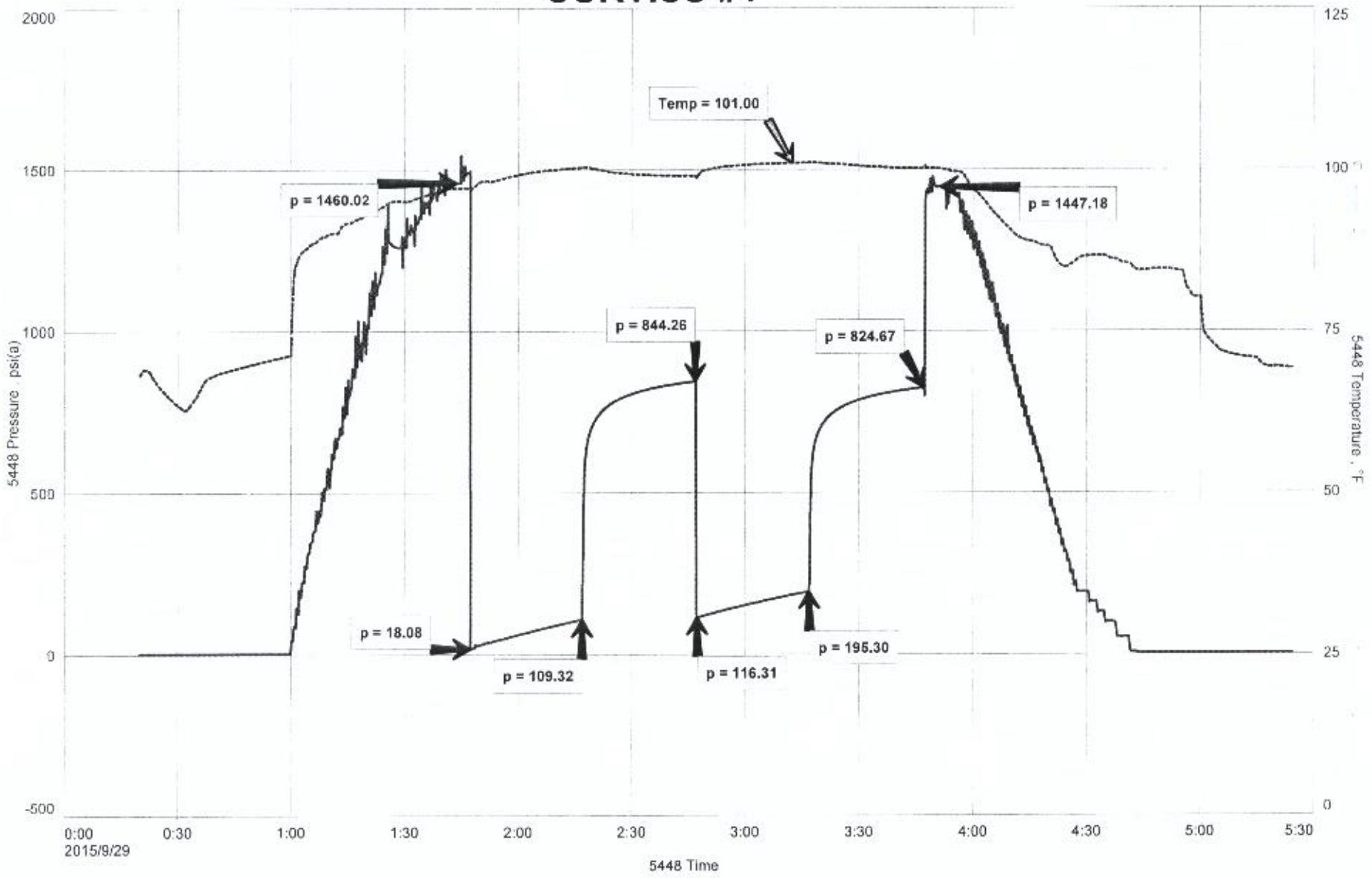
CHLOR: 74,000 PPM
PH: 7.0
RW: .16 @ 61 DEG

TOOL SAMPLE: 1% GAS, 95% WTR, 4% MUD W/ SOME SPECKS OF OIL

JASON OIL COMPANY, LLC
DST #1 LKC "D" 2988-3020
Start Test Date: 2015/09/29
Final Test Date: 2015/09/29

CURTISS #1
Formation: DST #1 LKC "D" 2988-3020
Pool: WILDCAT
Job Number: M795

CURTISS #1



Scale 1:240 Imperial

Well Name:	CURTISS #1		
Surface Location:	SE NW NW SE Sec. 4 - 14S - 11W		
Bottom Location:			
API:	15-167-24037		
License Number:	33813		
Spud Date:	9/25/2015	Time:	1:30 AM
Region:	RUSSELL COUNTY KANSAS		
Drilling Completed:	9/30/2015	Time:	12:25 AM
Surface Coordinates:	2272' FSL & 1985' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1775.00ft		
K.B. Elevation:	0.00ft		
Logged Interval:	2000.00ft	To:	3350.00ft
Total Depth:	3350.00ft		
Formation:	TARKIO; LANSING-KANSAS CITY		
Drilling Fluid Type:	FRESH WATER / CHEMICAL GEL		

OPERATOR

Company:	JASON OIL COMPANY, LLC		
Address:	3718 183RD ST P.O. BOX 701 RUSSELL, KS 67665		
Contact Geologist:	JIM SCHOENBERGER		
Contact Phone Nbr:	(785) 483-4204		
Well Name:	CURTISS #1		
Location:	SE NW NW SE Sec. 4 - 14S - 11W		
API:	15-167-24037		
Pool:		Field:	UNNAMED
State:	KANSAS	Country:	USA

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-98.5459518
Latitude:	38.8624429
N/S Co-ord:	2272' FSL
E/W Co-ord:	1985' FEL

LOGGED BY

BIG CREEK CONSULTING

Company: BIG CREEK CONSULTING, INC.
Address: 1909 MAPLE
ELLIS, KS 67637

Phone Nbr: (785) 259-3737
Logged By: GEOLOGIST Name: JEFF LAWLER

CONTRACTOR

Contractor: SOUTHWIND DRILLING
Rig #: 3
Rig Type: MUD ROTARY
Spud Date: 9/25/2015 Time: 1:30 AM
TD Date: 9/30/2015 Time: 12:25 AM
Rig Release: 7/30/2015 Time: 2:30 PM

ELEVATIONS

K.B. Elevation: 0.00ft Ground Elevation: 1775.00ft
K.B. to Ground: 1783.00ft

NOTES

THE CURTISS #1 WAS DRILLED OFF OF A SEISMIC PROSPECT. THERE WAS A SINGLE SHOW IN THE LKC "G" ZONE AND WAS TESTED WITH DRILL STEM TEST #1. DUE TO LACK OF ECONOMICAL RECOVERY IT WAS DECIDED TO PLUG AND ABANDON THE CURTISS #1.

RESPECTFULLY SUBMITTED,
JEFF LAWLER

WELL COMPARISON SHEET

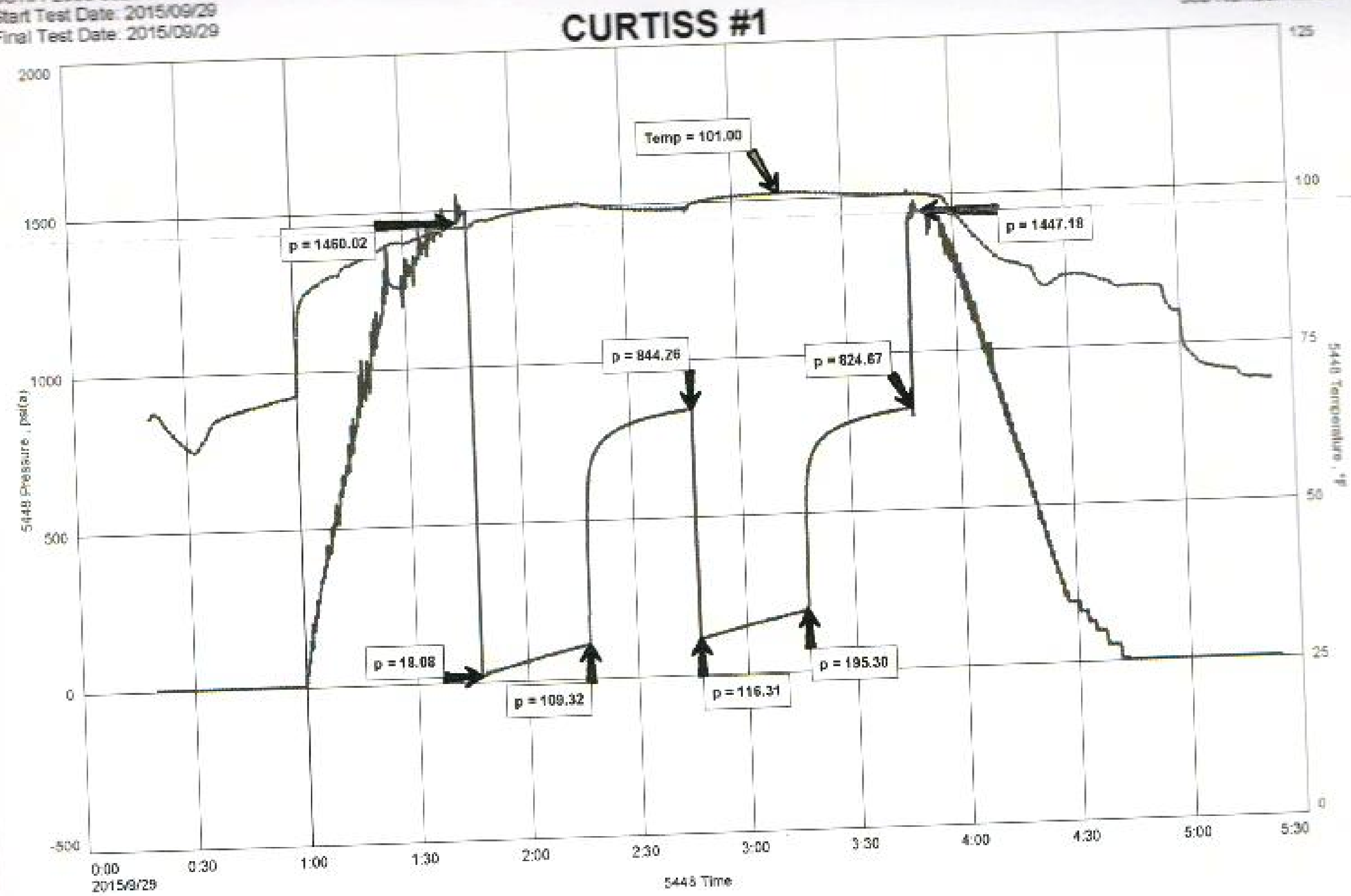
	CURTISS #1				P&A 1-1971 INTERNATIONAL RESOURCES ZEMAN #1 NW NW NW 9-14-11				• BUFFALO RESOURCES BUFFALO #1-7 NW NE SE NE 7-14-11				• BUFFALO RESOURCES STRICKER #1-6 W2 NE SW NW 6-14-11				E DAVIES & COMPANY, INC. BERNARD F. THEILEN #1-5 SE S-1-6-11			
	KB	1783	GL	1775	KB	1755			KB	1753			KB	1797			KB	1780		
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG	SMPL.	COMP. CARD		LOG	SMPL.	COMP. CARD		LOG	SMPL.	COMP. CARD		LOG	SMPL.
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP	630	1153	635	1140					587	1166	- 13	- 18	660	1137	+ 16	+ 11	643	1137	+ 16	+ 11
BASE	667	1116	665	1110					619	1134	- 18	- 16	691	1106	+ 10	+ 12	678	1102	+ 14	+ 16
HERRINGTON																	1431			
KRIDER																	1469	311		
WINFIELD																	1517	263		
TOWANDA																	1580	200		
GRAND HAVEN	2218	-435			2194	-439	+ 4						2221	-424	- 11		2238	-458	+ 23	
1ST TARKIO SAND	2232	-449											2228	-431	- 18					
TARKIO LIME	2297	-514	2299	-516	2272	-517	+ 3	+ 1					2296	-499	- 15	- 17	2316	-536	+ 22	+ 20
TOPEKA	2500	-717	2501	-718	2549	-794	- 77	+ 76	2493	-740	+ 23	+ 22	2501	-704	- 13	- 14				
HEEBNER	2817	-1034	2821	-1038	2793	-1038	+ 4	+ 0	2768	-1015	- 19	- 23	2808	-1011	- 23	- 27				
TORONTO	2838	-1055	2839	-1056	2812	-1057	+ 2	+ 1	2788	-1035	- 20	- 21	2826	-1029	- 26	- 27				
BROWN LIME	2907	-1124	2909	-1126	2881	-1126	+ 2	+ 0	2851	-1098	- 28	- 28	2893	-1096	- 28	- 30				
LKC	2926	-1143	2925	-1142	2896	-1141	- 2	- 1	2864	-1111	- 32	- 31	2910	-1113	- 30	- 29				
BKC	3189	-1406	3198	-1415	3184	-1429	+ 23	+ 14	3134	-1381	- 25	- 34	3173	-1376	- 30	- 39				
ARBUCKLE	3275	-1492	3283	-1500	3240	-1494	- 2	- 6	3204	-1451	- 41	- 49	3252	-1455	- 37	- 45				
TOTAL DEPTH	3350	-1567	3350	-1567	3225	-1520	- 47	- 47	3270	-1517	- 50	- 50	3302	-1505	- 62	- 62	2430	-650	- 912	- 912

DST #1 LKC G ZONE 2988' - 3020'

JASON OIL COMPANY, LLC
DST#1 2988-3020 LKC D
Start Test Date: 2015/09/29
Final Test Date: 2015/09/29

Pool: WILDCAT
Job Number: M795

CURTISS #1



C:\Users\Roger Friedly\Documents\MIKEDST\CURTISS #1\CRTSS1DST1\CRTSS1DST1.FKT 29-Sep-15 Ver

DST #1 LKC G ZONE 2988' - 3020'

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: CRTSS1DST1

TIME ON: 0020
TIME OFF: 0525

Company JASON OIL COMPANY, LLC — Lease & Well No. CURTISS #1
Contractor SOUTHWIND DRILLING, INC. RIG 3 — Charge to JASON OIL COMPANY, LLC
Elevation 1783 KB — Formation LKC D — Effective Pay ____ Ft. — Ticket No. M795
Date 9/29/2015 — Sec. 4 — Twp. 14 S — Range 11 W — County RUSSELL — State KANSAS
Test Approved By JEFF LAWLER — Diamond Representative MIKE COCHRAN

Formation Test No. 1 — Interval Tested from 2988 ft. to 3020 ft. — Total Depth 3020 ft.
Packer Depth 2983 ft. Size 6 3/4 in. — Packer depth NA ft. Size 6 3/4 in.
Packer Depth 2988 ft. Size 6 3/4 in. — Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 2977 ft. — Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 2990 ft. — Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ____ ft — Recorder Number ____ Cap. ____ P.S.I.

Mud Type CHEM — Viscosity 55 — Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.2 — Water Loss 7.2 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,600 P.P.M. — Drill Pipe Length 2963 ft. I.D. 3 1/2 in.
NA — Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 0020
TIME OFF: 0525

DRILL-STEM TEST TICKET

FILE: CRTSS1DST1

Company JASON OIL COMPANY, LLC — Lease & Well No. CURTISS #1

Contractor SOUTHWIND DRILLING, INC. RIG 3 — Charge to JASON OIL COMPANY, LLC

Elevation 1783 KB — Formation LKC D — Effective Pay ____ Ft. — Ticket No. M795

Date 9/29/2015 — Sec. 4 — Twp. 14 S — Range 11 W — County RUSSELL — State KANSAS

Test Approved By JEFF LAWLER — Diamond Representative MIKE COCHRAN

Formation Test No. 1 — Interval Tested from 2988 ft. to 3020 ft. — Total Depth 3020 ft.

Packer Depth 2983 ft. — Size 6 3/4 in. — Packer depth NA ft. — Size 6 3/4 in.

Packer Depth 2988 ft. — Size 6 3/4 in. — Packer depth NA ft. — Size 6 3/4 in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 2977 ft. — Recorder Number 5448 — Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 2990 ft. — Recorder Number 0063 — Cap. 5,000 P.S.I.

Below Straddle Recorder Depth ____ ft. — Recorder Number ____ — Cap. ____ P.S.I.

Mud Type CHEM — Viscosity 55 — Drill Collar Length 0 ft. — I.D. 2 1/4 in.

Weight 9.2 — Water Loss 7.2 cc. — Weight Pipe Length 0 ft. — I.D. 2 7/8 in

Chlorides 2,600 P.P.M. — Drill Pipe Length 2963 ft. — I.D. 3 1/2 in

Jars: Make STERLING — Serial Number NA — Test Tool Length 25 ft. — Tool Size 3 1/2-IF in

Did Well Flow? NO — Reversed Out NO — Anchor Length 32 ft. — Size 4 1/2-FH in

Main Hole Size 7 7/8 — Tool Joint Size 4 1/2 XH in. — Surface Choke Size 1 in. — Bottom Choke Size 5/8 in

Blow: 1st Open: SSB, BOB 11 MIN. 40 SEC. (NO BB)

2nd Open: WSB, BOB 14 MIN. 30 SEC. (NO BB)

Recovered ____ ft. of TOP ~HALF FOOT: GMOCW 2% GAS, 34% OIL, 52% WTR, 12% MUD

Recovered 381 ft. of VSOSGMW 1% GAS, 85% WTR, 14% MUD W/ SOME SPECKS OF OIL

Recovered 381.5 ft. of TOTAL FLUID

Recovered ____ ft. of ____

Recovered ____ ft. of CHLOR: 74,000 PPM

Recovered ____ ft. of RW: .16 @ 61 DEG

Remarks: PH: 7.0

TOOL SAMPLE: 1% GAS, 95% WTR, 4% MUD W/ SOME SPECKS OF OIL

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 1:45 A.M. A.M. P.M. — Time Started Off Bottom 3:45 A.M. A.M. P.M. — Maximum Temperature 101°F

Initial Hydrostatic Pressure ..... (A) 1460 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 18 P.S.I. to (C) 109 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 844 P.S.I.

Final Flow Period ..... Minutes 30 (E) 116 P.S.I. to (F) 195 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 825 P.S.I.

Final Hydrostatic Pressure ..... (H) 1447 P.S.I

ROCK TYPES

Chtcongl	Lmst fw7>	Carbon Sh	Ss
Dolprim	shale, grn	shale, red	Lscongl

ACCESSORIES

MINERAL	FOSSIL	STRINGER
Sandy	Oomoldic	Sandstone

OTHER SYMBOLS

MISC
- Daily Report
- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

DST
- DST Int
- DST alt

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1
ROP (min/ft)
Gamma (API)
Cal (in)
1:240 Imperial

Depth | Intervals
Cored Interval
DST Interval
DST
Lithology
Oil Show
Geological Descriptions

Curve Track #3
1:240 Imperial

0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16

2160
2170
2180
2190
2200
2210
2220
2230
2240

1' DRILL TIME THROUGH ANHYDRITE FROM 600' - 660'
1' DRILL TIME FROM 2190' - RTD
10' WET/DRY SAMPLES FROM 2240' - RTD

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 2190' - RTD

8 5/8" SURFACE PIPE SET @ 471' SURVEY 1 dgr.

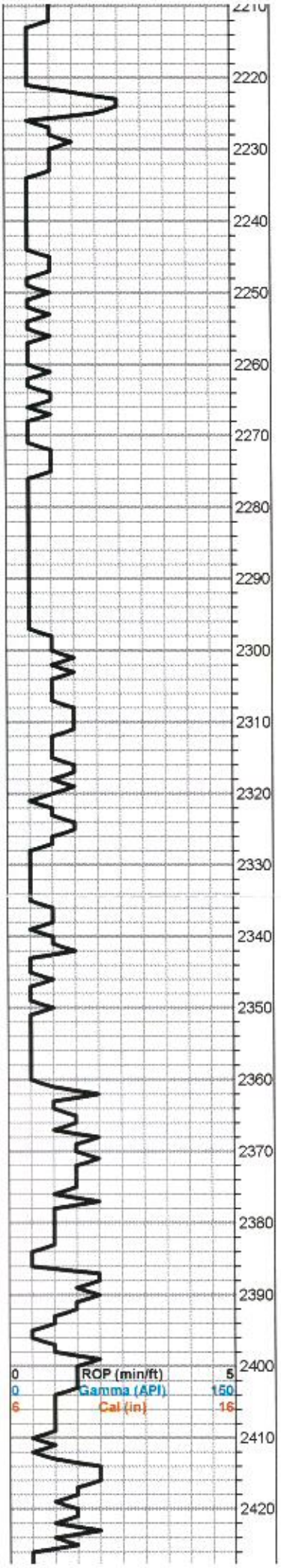
ANHYDRITE TOP 635' (+1148) E-LOG 630' (+1153)
ANHYDRITE BASE 665' (+1118) E-LOG 667' (+1116)

Sh- Gray, soft & semi-argillaceous, some sandy & shaley

GRAND HAVEN E-LOG 2218' (-435) Lm- Gray Buff, FXLN, dense, well cemented, trashy w/ fsl fragments, sctrd XLN porosity, sl micaceous, barren

1st SAND E-LOG 2232' (-449) Ss- Lm Green Frosted, Fn Grn, consolidated & well sorted, well cemented to loosely cemented & friable, heavy gluaconite, consistent inter granular porosity, barren

Sh- Maroon Gray, gritty & earthy, gummy argillaceous clumps, calcareous



Sh- Gray, soft & semi-argillaceous, some sandy & shaley

GRAND HAVEN E-LOG 2218' (-435) Lm- Gray Buff, FXLN, dense, well cemented, trashy w/ fsl fragments, sctrd XLN porosity, sl micaceous, barren

1st SAND E-LOG 2232' (-449) Ss- Lm Green Frosted, Fn Grn, consolidated & well sorted, well cemented to loosely cemented & friable, heavy gluaconite, consistent inter granular porosity, barren

Sh- Maroon Gray, gritty & earthy, gummy argillaceous clumps, calcareous

Sh- abundant gray argillaceous clumps & sandy gummy wash

2nd SAND 2254' (-471) Ss- Frosted, Fn Grn, unconsolidated & well sorted, glauconite, consistent intergranular porosity, barren

Sh- Gray, abundant micaceous gummy wash & calcareous clumps

TARKIO LIME 2299' (-516) E-LOG 2297' (-514) Lm- Gray Buff, VF-FXLN, dense, well cemented, sctrd reXLN & XLN porossity, sl fsl, poorly dev. barren

Lm- Cream Off White Tan, mix of VF-FXLN, tight w/o vis. porosity, massive fsl & oolitic w/ sctrd XLN & vry fn ppt inter oolite porosity, some chalky in part, and poorly dev., tight w/ sctrd micro XLN porosity, all barren

Sh- Gray, soft & semi-gummy, gummy white chalk & calcareous gray clumps, micaceous

Ss-Gray, poorly dev. & shaley, micaceous, trashy Ss bench, min. vis. porosity

Sh- Gray, soft wash, some gummy argillaceous clumps, calcareous

Lm- Cream Off White, FXLN, sl fsl, dense, well cemented, some w/ sctrd reXLN veins, sctrd XLN porosity, vry clean & barren, several pcs of dense well cemented chalk

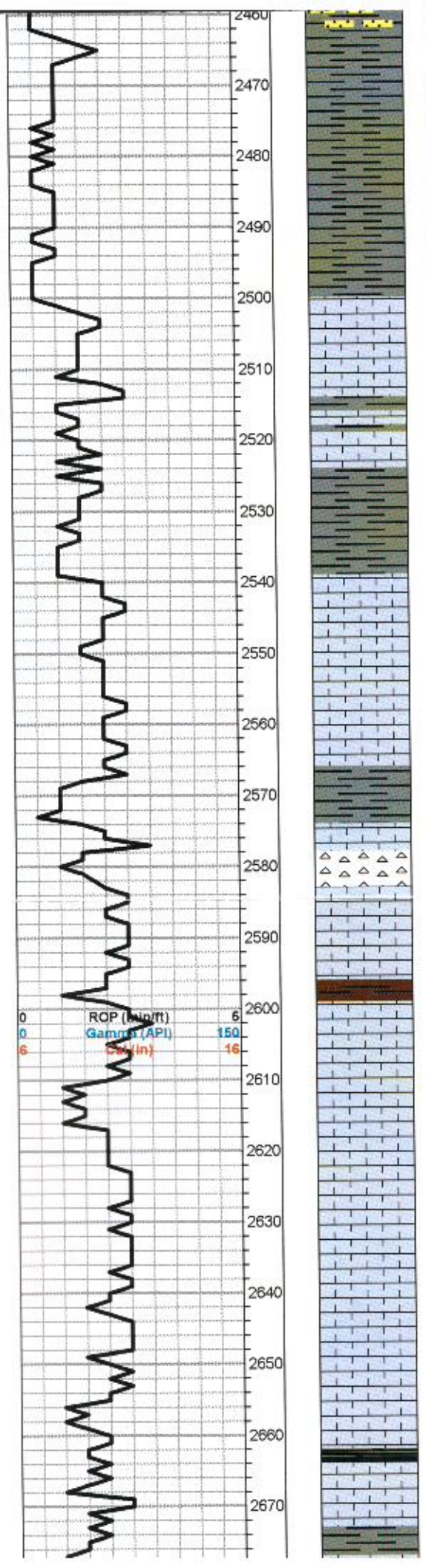
Sh- Gray White Maroon, dense & blocky, gummy chalk clumps, dense & semi-waxy

Lm- Cream Buff, VF-FXLN, fsl, chalky in part, well cemented, poorly dev. w/ poor vis. porosity

Lm- Gray Cream, VFXLN, dense, well cemented, sl fsl, poorly dev. & tight, dense micro XLN porosity, soft white chalk, barren

Lm- Buff Gray, FXLN, fsl, poorly dev. w/ sctrd XLN porosity & sctrd reXLN

Sh- Lt & Drk Gray, soft & silty, calcareous, some micaceous shaley Ss



well cemented, poor vis. inter granular porosity, barren

Sh- A/A w/ influx of gray dense shale

Sh- Gray Lm Green, silty & soft, calcareous, dense & silty

TOPEKA 2501' (-718) E-LOG 2500' (-717) Lm- Cream Off White, VFXLN, dense, well cemented, tight w/ min. vis. porosity, sl fsl

Lm- Tan, VFXLN, dense, vry well cemented, tight w/ no vis. porosity, much gummy white chalk

Sh- Lt Gray, abundant argillaceous clumps & soft white chalk

Lm- Cream, VF-FXLN, mod. cementation, some w/ fsl fragments & poor vis. porosity, some w/ sub-round qtz. inclusions & sctrd XLN porosity, all barren

Lm- Cream Buff, VF-FXLN, dense, well cemented, fsl fragments & poor vis. porosity, some soft white chalk

Sh- Lt Gray, abundant silty & calcareous wash, some gummy clumps

Lm- Gray Cream, FXLN, densely packed fsl fragments, sctrd XLN porosity, barren

Lm- Gray Buff Cream, mix of A/A w/ several pcs of tight VFXLN w/o vis. matrix or porosity, several pcs of cherty Ls w/ sub-rounded qtz. inclusions & no vis. porosity, porcelain like

Sh- Maroon, gritty & earthy

Lm- Gray, VFXLN, dense, well cemented, sl fsl w/ poor vis. porosity

Lm- Gray Buff, FXLN, fsl, poorly dev. & most tight w/ sctrd vis. porosity, few pcs of fsl chert/cherty Ls w/ no vis. porosity

Lm- Cream, FXLN, gritty & grainy, some chalky in part, sctrd mottling, poor vis. porosity

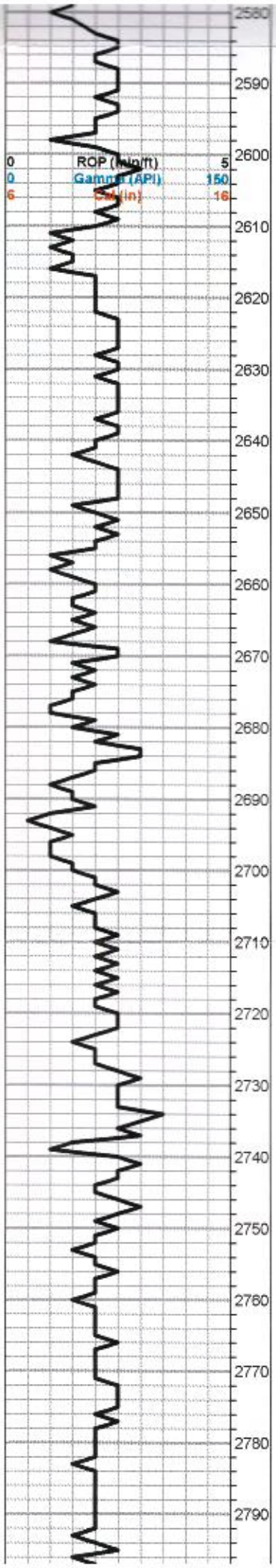
Lm- Gray, Vf Grn, dense, well cemented silty w/ no vis. porosity

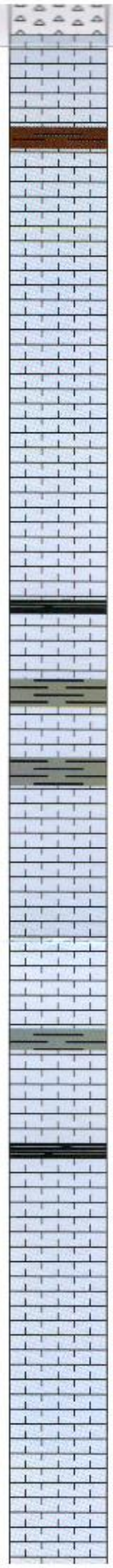
Lm- Cream Tan Buff, VF-FXLN, dense, fsl high-energy mix, some chalky in part, loosely cemented & crumbly, sctrd XLN to poor vis. porosity, sctrd mottling

Lm- White, much gummy white chalk

Lm- Cream, VFXLN, dense, well cemented gritty dolomitic Ls w/ consistent micro XLN porosity, heavily mottled, sl fsl

Sh- Gray White, gummy argillaceous clumps





Lm- Gray Buff Cream, mix of A/A w/ several pcs of tight VFXLN w/o vis. matrix or porosity, several pcs of cherty Ls w/ sub-rounded qtz. inclusions & no vis. porosity, porcelain like

Sh- Maroon, gritty & earthy

Lm- Gray, VFXLN, dense, well cemented, sl fsl w/ poor vis. porosity

Lm- Gray Buff, FXLN, fsl, poorly dev. & most tight w/ sctrd vis. porosity, few pcs of fsl chert/cherty Ls w/ no vis. porosity

Lm- Cream, FXLN, gritty & grainy, some chalky in part, sctrd mottling, poor vis. porosity

Lm- Gray, Vf Grn, dense, well cemented silty w/ no vis. porosity

Lm- Cream Tan Buff, VF-FXLN, dense, fsl high-energy mix, some chalky in part, loosely cemented & crumbly, sctrd XLN to poor vis. porosity, sctrd mottling

Lm- White, much gummy white chalk

Lm- Cream, VFXLN, dense, well cemented gritty dolomitic Ls w/ consistent micro XLN porosity, heavily mottled, sl fsl

Sh- Gray White, gummy argillaceous clumps

Lm- Cream Off White, VF-FXLN, dense well cemented mix, some fsl high-energy mix, sl trashy, & vry well cemented VFXLN, dense, tight w/o vis. porosity, vry clean & barren

Lm- White, abundant soft white chalk

Lm- Cream Off White, FXLN, densely packed fsl, fusulinids, sl trashy, poor vis. porosity, gummy gray clay

Lm- Cream, VF-FXLN, dense, sl fsl, semi-granular, mod. dev. w/ dense XLN porosity

Sh- Black Gray Lm Green, fissile, fsl & carbonaceous, soft & silty, dense & blocky

Lm- Cream Gray, FXLN, dense, mod. dev. w/ sctrd reXLN, fsl, semi-massive

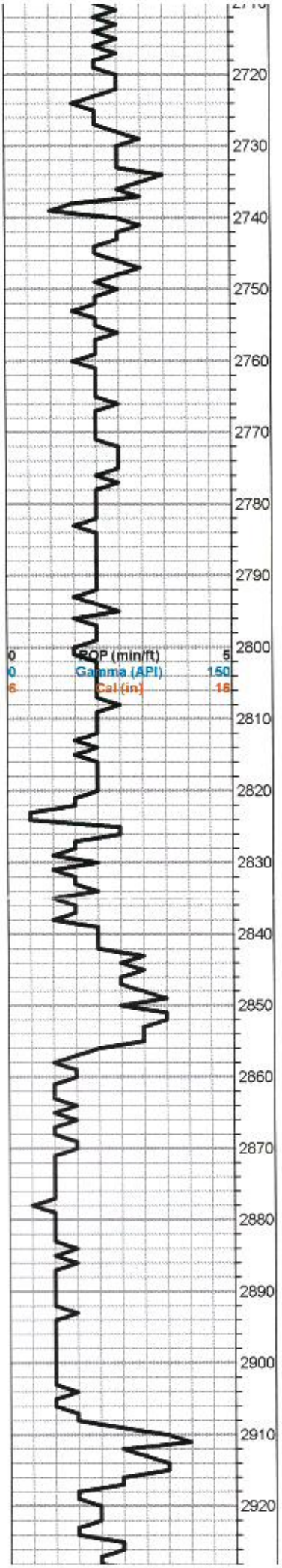
Lm- Buff Gray, VF-FXLN, dense, well cemented, mostly tight, fsl, some w/ sctrd micro XLN & XLN porosity, several pcs of tigh cherty Ls w/o vis. porosity

Lm- Gray, VFXLN, dense, well cemented, mostly tight, sl fsl, poor sctrd XLN, abundant soft white chalk

Lm- Gray, FXLN, fsl, loosely cemented & crumbly, dense XLN & sctrd reXLN porosity

Lm- Gray Buff, VF-FXLN, fsl, dense, well cemented, mostly tight, poor vis. porosity, barren

Lm- Buff, VFXLN, dense, well cemented, tight w/ no vis. porosity



Lm- Cream Off White, FXLN, densely packed fsl, fusulinids, sl trashy, poor vis. porosity, gummy gray clay

Lm- Cream, VF-FXLN, dense, sl fsl, semi-granular, mod. dev. w/ dense XLN porosity

Sh- Black Gray Lm Green, fissile, fsl & carbonaceous, soft & silty, dense & blocky

Lm- Cream Gray, FXLN, dense, mod. dev. w/ sctrd reXLN, fsl, semi-massive

Lm- Buff Gray, VF-FXLN, dense, well cemented, mostly tight, fsl, some w/ sctrd micro XLN & XLN porosity, several pcs of tigh cherty Ls w/o vis. porosity

Lm- Gray, VFXLN, dense, well cemented, mostly tight, sl fsl, poor sctrd XLN, abundant soft white chalk

Lm- Gray, FXLN, fsl, loosely cemented & crumbly, dense XLN & sctrd reXLN porosity

Lm- Gray Buff, VF-FXLN, fsl, dense, well cemented, mostly tight, poor vis. porosity, barren

Lm- Buff, VFXLN, dense, well cemented, tight w/ no vis. porosity

Lm- A/A w/ few pcs of sl fsl, mostly tight w/ sctrd micro XLN porosity, several pcs of dense cherty Ls w/o vis. porosity

Lm- A/A, chalky in part, poorly dev. & heavily mottled, much soft white chalk

HEEBNER 2821' (-1038) E-LOG 2817' (-1034) Sh- Black Mint Green, fissile & carbonaceous, abundant argillaceous clumps

TORONTO 2839' (-1056) E-LOG 2838' (-1055) Lm- Cream Off White, VF-FXLN, fsl, poorly dev. w/ sctrd XLN porosity, few w/ sctrd reXLN porosity, vry clean & barren

Lm- A/A, dense XLN porosity, mottled, barren

DOUGLAS SHALE 2855' (-1072) E-LOG 2851' (-1068) Sh- Lt Gray Green Maroon, abudnant gummy argillaceous clumps, some sandy wash & few pcs of consolidated & well sorted Ss, friable & well dev. w/ consistent intergranular porosity, barren, micaceous

Ss- Frosted, Vf Grn, consolidated, well sorted, mod. cemented, mod. developed w/ consistent vry fn intergranular porosity, micaceous, bareen

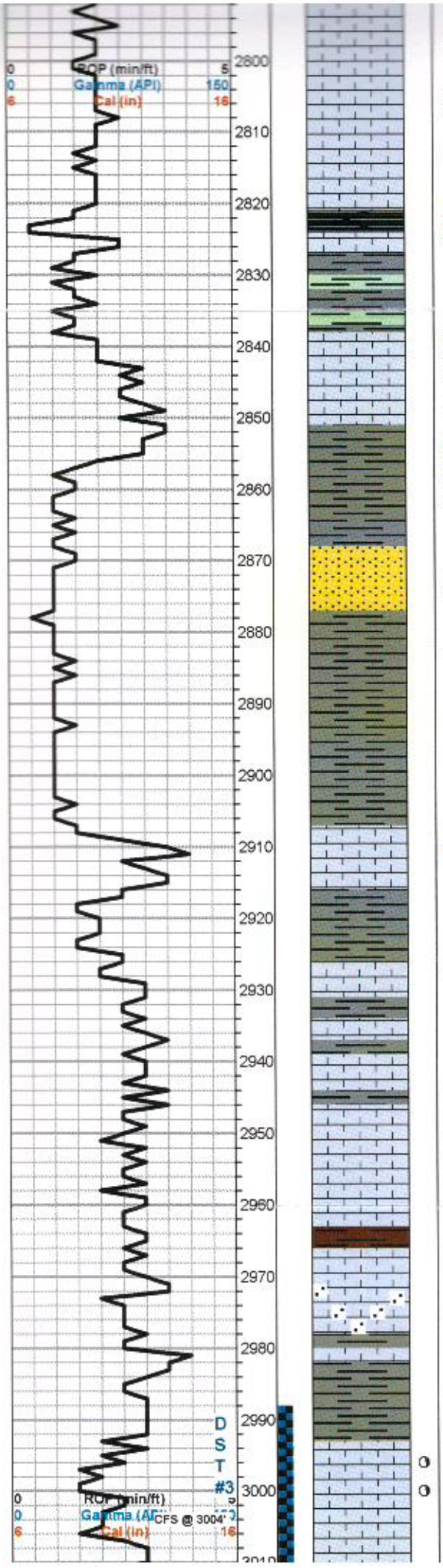
Sh- abundant gummy argillaceous gray maroon & green clumps

Sh- A/A

BROWN LIME 2909' (-1126) E-LOG 2907' (-1124) Lm- Brown Tan, VF-FXLN, dense, well cemented, high-energy fsl mix, poor vis. porosity, barren

Sh- Gray, gummy argillaceous clumps

LKC 2925' (-1142) E-LOG 2926' (-1143) Lm- Off White Translucent, VFXLN,



Lm- Buff, VFXLN, dense, well cemented, tight w/ no vis. porosity

Lm- A/A w/ few pcs of sl fsl, mostly tight w/ sctrd micro XLN porosity, several pcs of dense cherty Ls w/o vis. porosity

Lm- A/A, chalky in part, poorly dev. & heavily mottled, much soft white chalk

HEEBNER 2821' (-1038) E-LOG 2817' (-1034) Sh- Black Mint Green, fissile & carbonaceous, abundant argillaceous clumps

TORONTO 2839' (-1056) E-LOG 2838' (-1055) Lm- Cream Off White, VF-FXLN, fsl, poorly dev. w/ sctrd XLN porosity, few w/ sctrd reXLN porosity, vry clean & barren

Lm- A/A, dense XLN porosity, mottled, barren

DOUGLAS SHALE 2855' (-1072) E-LOG 2851' (-1068) Sh- Lt Gray Green Maroon, abudnant gummy argillaceous clumps, some sandy wash & few pcs of consolidated & well sorted Ss, friable & well dev. w/ consistent intergranular porosity, barren, micaceous

Ss- Frosted, Vf Grn, consolidated, well sorted, mod. cemented, mod. developed w/ consistent vry fn intergranular porosity, micaceous, bareen

Sh- abundant gummy argillaceous gray maroon & green clumps

Sh- A/A

BROWN LIME 2909' (-1126) E-LOG 2907' (-1124) Lm- Brown Tan, VF-FXLN, dense, well cemented, high-energy fsl mix, poor vis. porosity, barren

Sh- Gray, gummy argillaceous clumps

LKC 2925' (-1142) E-LOG 2926' (-1143) Lm- Off White Translucent, VFXLN, dense well cemented tight mix, some cherty Ls w/o vis. porosity & fsl Ls w/ sctrd to dense micro XLN porosity, all vry clean & barren

Lm- Cream Buff, VF-FXLN, dense, well cemented, sl fsl, poorly dev. w/ sctrd XLN porosity, barren

Lm- Tan Buff, VFXLN, dense, well cemented, tight w/ min. vis. porosity, much dark brown calcareous siltstone w/o vis. porosity

Lm- Cream Off White, VF-FXLN, dense, well cemented, sctrd dev. w/ sctrd to dense reXLN & XLN porosity, some sl cherty Ls w/ poor vis. porosity, vry clean & barren

Lm- Lt Gray, unconsolidated, pebbly, loosely cemented & crumbly, some mud supported matrix, poor vis. porosity

Lm- Cream Off White, VFXLN, massive, unconsolidated w/ rouned to sub-rounded qtz. inclusions & pebbly, dense XLN porosity, barren, some w/ sctrd reXLN secondary porosity

Lm- Cream Off White, semi-massive, fsl, well cemented, poorly dev. w/ sctrd to dense XLN porosity, several pcs of gritty VFXLN Ls w/ consistent micro XLN porosity throughout, all clean & barren

Lm- Cream Off White, mix of fsl mod. dev. Ls w/ sctrd fn ppt inter fsl porosity & sctrd secondary reXLN porosity, LT SCTRD STN, NSFO, TR ODR, & VFXLN dolomitic Ls w/ consistent XLN porosity throughout, LT SCTRD STN, NSFO, TR ODR, BOTH W/ LT YLW FLOR. NO STRM WET CUT

SHORT TRIP
CTCH
SURVEY

DST #1 LKC G
2988' - 3020'
30-30-30-30

381' GMOCW
(1% G, 85% W, 14% M)
6in. GMOCW
(2% G, 34% O, 52% W, 12%M)

IFP: 18-109#
FFP: 116-195#
SIP: 844-825#

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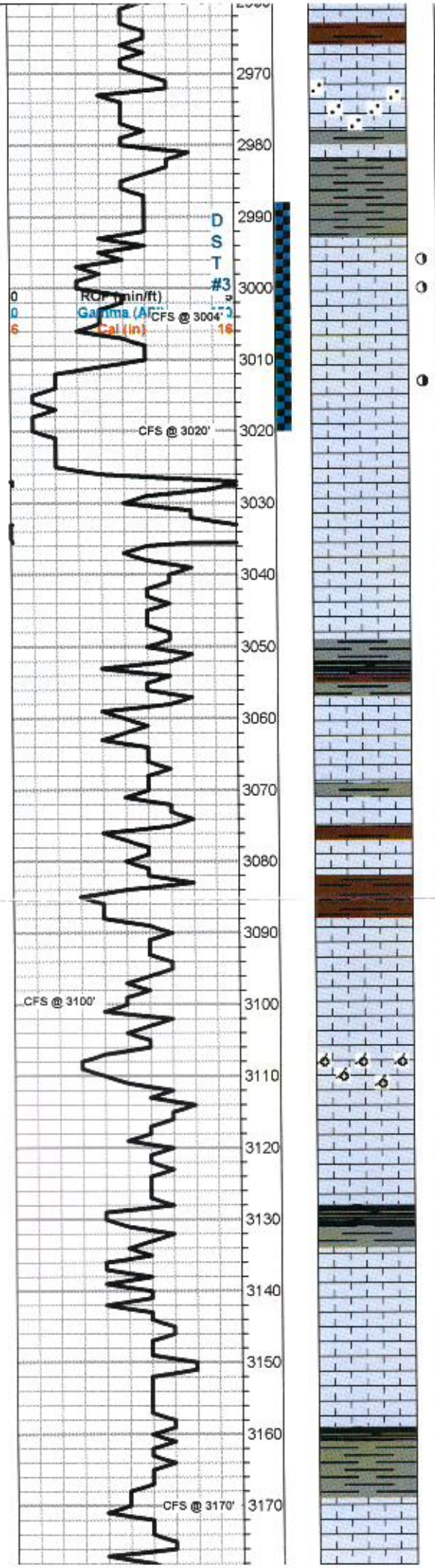
C2.jpg



Lm- Lt Gray, unconsolidated, pebbly, loosely cemented & crumbly, some mud supported matrix, poor vis. porosity

Lm- Cream Off White, VFXLN, massive, unconsolidated w/ rouned to sub-rounded qtz. inclusions & pebbly, dense XLN porosity, barren, some w/ sctrd reXLN secondary porosity

Lm- Cream Off White, semi-massive, fsl, well cemented, poorly dev. w/ sctrd to dense XLN porosity, several pcs of gritty VFXLN Ls w/ consistent micro XLN porosity throughout, all clean & barren

Lm- Cream Off White, mix of fsl mod. dev. Ls w/ sctrd fn ppt inter fsl porosity & sctrd secondary reXLN porosity, LT SCTRD STN, NSFO, TR ODR, & VFXLN dolomitic Ls w/ consistent XLN porosity throughout, LT SCTRD STN, NSFO, TR ODR, BOTH W/ LT YLW FLOR. NO STRM WET CUT

Lm- Tan Cream, F-Med XLN, oomoldic, well dev. w/ mostly complete skeletal dissolution, some retained oolite inclusions, vuggy porosity, mod. vugular connectivity, LT SCTRD STN, TR FO & BLEEDING FO, GD SULPHURIC ODR, GD OILY SHEEN, BRT YLW FLOR., STRM WET CUT

Lm- Cream Buff, VFXLN, dense, mix of well cemented, sl fsl & tight w/ min. vis. porosity and loosely cemented, chalky & crumbly vry clean & barren

Lm- Lt Gray, VFXLN, dense, vry well cemented fsl cherty Ls w/o vis. porosity

Sh- Black Gray Maroon, fissile & carbonaceous, silty & soft, gritty & earthy

Lm- Lt Gray, FXLN, sl fsl, dense, well cemented & tight w/ sctrd micro XLN porosity

Lm- Cream Tan, FXLN, sl fsl, poorly dev. w/ sctrd XLN porosity, much soft white crumbly chalk, all barren, several pcs of semi-cryptocrystalline w/o vis. porosity

Sh- Maroon, gummy argillaceous clumps

Lm- Cream Off White, VF-FXLN, dense, well cemented, poorly dev. oolitic Ls, sctrd micro XLN & XLN porosity, vry clean & barren, much soft white chalk & chalky mud supported matrix

Lm- Cream Tan, FXLN, poorly dev. fsl & oolmodic Ls w/ sctrd to dense XLN porosity, rare sctrd vuggy porosity, much soft white chalk, barren

Lm- Tan Buff, VFXLN, dense, vry well cemented, tight w/ min. vis. porosity

Sh- Black Gray, fissile & carbonaceous, gummy argillaceous clumps

Lm- Buff Gray, VF-FXLN, dense, well cemented, poorly dev. oolitic Ls w/ poor vis. porosity, some soft mud supported matrix, barren

Lm- Tan Buff, VFXLN, dense, well cemented, poorly dev. & tight w/ min. vis. porosity

Lm- Tan, A/A, some soft chalky mud supported matrix w/ poor vis. porosity, barren

Lm- Cream Off White, FXLN, poorly dev. oolitic Ls, well cemented & mostly tight w/

2988' - 3020'
30-30-30-30

381' GMOCW
(1% G, 85% W, 14% M)
6in. GMOCW
(2% G, 34% O, 52%, 12%M)

IFP: 18-109#
FFP: 116-195#
SIP: 844-825#

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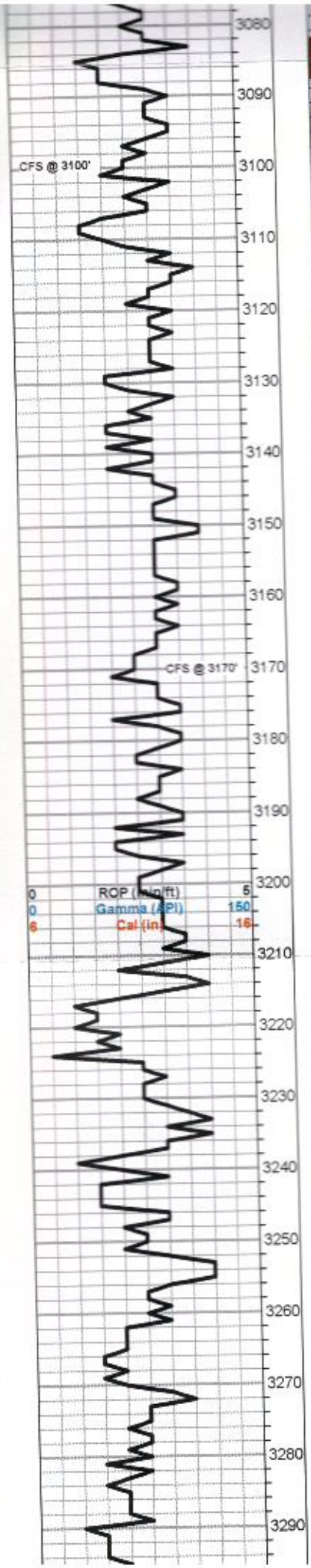


Sh- Maroon, gummy argillaceous clumps

Lm- Cream Off White, VF-FXLN, dense, well cemented, poorly dev. oolitic Ls, sctrd micro XLN & XLN porosity, vry clean & barren, much soft white chalk & chalky mud supported matrix

Lm- Cream Tan, FXLN, poorly dev. fsl & oolmodic Ls w/ sctrd to dense XLN porosity, rare sctrd vuggy porosity, much soft white chalk, barren

Lm- Tan Buff, VFXLN, dense, vry well cemented, tight w/ min. vis. porosity

Sh- Black Gray, fissile & carbonaceous, gummy argillaceous clumps

Lm- Buff Gray, VF-FXLN, dense, well cemented, poorly dev. oolitic Ls w/ poor vis. porosity, some soft mud supported matrix, barren

Lm- Tan Buff, VFXLN, dense, well cemented, poorly dev. & tight w/ min. vis. porosity

Lm- Tan, A/A, some soft chalky mud supported matrix w/ poor vis. porosity, barren

Lm- Cream Off White, FXLN, poorly dev. oolitic Ls, well cemented & mostly tight w/ micro XLN porosity, much soft mud supported matrix siltstone,

Lm- A/A w/ tan cherty Ls & vitreous bedded chert, all w/o vis. porosity

BKC 3198' (-1415) E-LOG 3189' (-1406) Sh- Maroon Gray, gritty & earthy, silty & calcareous

Lm- Lt Gray, Fn Grn, loosely cemented mud supported matrix, few crinoids, poor vis. porosity, chalky in part

Lm- Gray, VFXLN, dense, well cemented, sl unconsolidated arenaceous oolitic Ls w/ dense micro XLN porosity, barren

Sh- Gray Maroon, silty & semi-calcareous, gritty & earthy

Lm- Gray Buff w/ Maroon tint, unconsolidated conglomerate Ls w/ min. vis. porosity

Lm- Cream Off White, FXLN, loosely cemented & crumbly oolitic Ls w/ dense XLN porosity, vry clean & barren

Sh- Maroon Mustard Yellow Gray, gritty & earthy, dense & blocky, soft & silty

Lm- Mustard Yellow, dense, vry well cemented oolitic conglomerate Ls w/ no vis. porosity

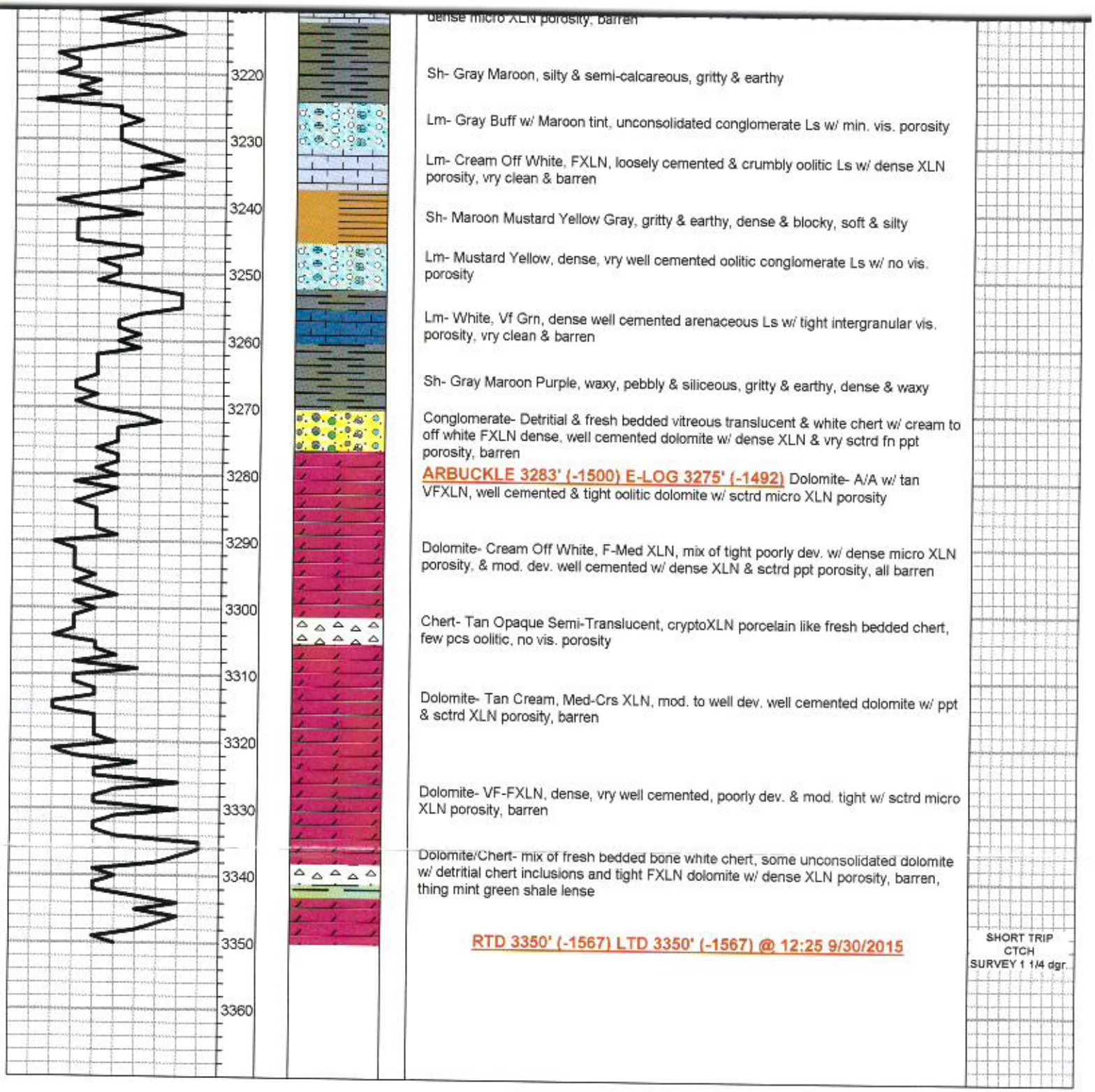
Lm- White, Vf Grn, dense well cemented arenaceous Ls w/ tight intergranular vis. porosity, vry clean & barren

Sh- Gray Maroon Purple, waxy, pebbly & siliceous, gritty & earthy, dense & waxy

Conglomerate- Detritial & fresh bedded vitreous translucent & white chert w/ cream to off white FXLN dense, well cemented dolomite w/ dense XLN & vry sctrd fn ppt porosity, barren

ARBUCKLE 3283' (-1500) E-LOG 3275' (-1492) Dolomite- A/A w/ tan VFXLN, well cemented & tight oolitic dolomite w/ sctrd micro XLN porosity

Dolomite- Cream Off White, F-Med XLN, mix of tight poorly dev. w/ dense micro XLN porosity, & mod. dev. well cemented w/ dense XLN & sctrd ppt porosity, all barren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3360
dense micro XLN porosity, barren
Sh- Gray Maroon, silty & semi-calcareous, gritty & earthy
Lm- Gray Buff w/ Maroon tint, unconsolidated conglomerate Ls w/ min. vis. porosity
Lm- Cream Off White, FXLN, loosely cemented & crumbly oolitic Ls w/ dense XLN porosity, vry clean & barren
Sh- Maroon Mustard Yellow Gray, gritty & earthy, dense & blocky, soft & silty
Lm- Mustard Yellow, dense, vry well cemented oolitic conglomerate Ls w/ no vis. porosity
Lm- White, Vf Grn, dense well cemented arenaceous Ls w/ tight intergranular vis. porosity, vry clean & barren
Sh- Gray Maroon Purple, waxy, pebbly & siliceous, gritty & earthy, dense & waxy
Conglomerate- Detritial & fresh bedded vitreous translucent & white chert w/ cream to off white FXLN dense, well cemented dolomite w/ dense XLN & vry sctrd fn ppt porosity, barren
ARBUCKLE 3283' (-1500) E-LOG 3275' (-1492) Dolomite- A/A w/ tan VFXLN, well cemented & tight oolitic dolomite w/ sctrd micro XLN porosity
Dolomite- Cream Off White, F-Med XLN, mix of tight poorly dev. w/ dense micro XLN porosity, & mod. dev. well cemented w/ dense XLN & sctrd ppt porosity, all barren
Chert- Tan Opaque Semi-Translucent, cryptoXLN porcelain like fresh bedded chert, few pcs oolitic, no vis. porosity
Dolomite- Tan Cream, Med-Crs XLN, mod. to well dev. well cemented dolomite w/ ppt & sctrd XLN porosity, barren
Dolomite- VF-FXLN, dense, vry well cemented, poorly dev. & mod. tight w/ sctrd micro XLN porosity, barren
Dolomite/Chert- mix of fresh bedded bone white chert, some unconsolidated dolomite w/ detritial chert inclusions and tight FXLN dolomite w/ dense XLN porosity, barren, thing mint green shale lense
RTD 3350' (-1567) LTD 3350' (-1567) @ 12:25 9/30/2015
SHORT TRIP CTCH
SURVEY 1 1/4 dgr.

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