

**OPERATOR**

Company: JASON OIL COMPANY, LLC  
 Address: 3718 83RD ST  
 P.O. BOX 701  
 RUSSELL, KS 67665  
 Contact Geologist: AMBER MORESCO  
 Contact Phone Nbr: (785) 483-1071  
 Well Name: GODDARD #1  
 Location: NW SE SW SW Sec. 33 - 7S - 24W  
 API: 15-065-24076-00-00  
 Pool: NANA NORTHWEST  
 State: KANSAS  
 Field: NANA NORTHWEST  
 Country: USA

**Scale 1:240 Imperial**

Well Name: GODDARD #1  
 Surface Location: NW SE SW SW Sec. 33 - 7S - 24W  
 Bottom Location:  
 API: 15-065-24076-00-00  
 License Number: 33813  
 Spud Date: 11/5/2014 Time: 5:15 PM  
 Region: GRAHAM COUNTY KANSAS  
 Drilling Completed: 11/10/2014 Time: 1:03 PM  
 Surface Coordinates: 570' FSL & 800' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2437.00ft  
 K.B. Elevation: 2442.00ft  
 Logged Interval: 3250.00ft To: 3958.00ft  
 Total Depth: 3958.00ft  
 Formation: LANSING - KANSAS CITY  
 Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -100.0095519  
 Latitude: 39.3944982  
 N/S Co-ord: 570' FSL  
 E/W Co-ord: 800' FWL

**LOGGED BY**

Company: BIG CREEK CONSULTING, INC.  
 Address: 1909 MAPLE  
 ELLIS, KS 67637  
 Phone Nbr: (785) 259-3737  
 Logged By: Geologist Name: JEFF LAWLER

**CONTRACTOR**

Contractor: ROYAL DRILLING, INC.  
 Rig #: 1  
 Rig Type: MUD ROTARY  
 Spud Date: 11/5/2014 Time: 5:15 PM  
 TD Date: 11/10/2014 Time: 1:03 PM  
 Rig Release: 11/11/2014 Time: 12:00 PM

**ELEVATIONS**

K.B. Elevation: 2442.00ft Ground Elevation: 2437.00ft  
 K.B. to Ground: 5.00ft

**NOTES**


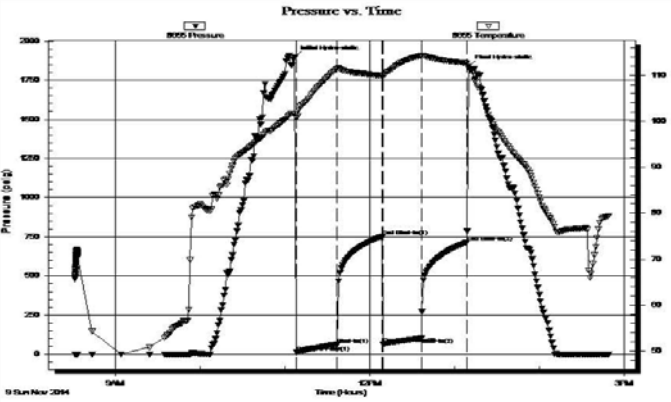
DUE TO ECONOMICAL RECOVERY ON DST #2 OPERATOR MADE THE DECISION TO RUN 5 1/2" PRODUCTION CASING AND FURTHER EVALUATE ZONES OF INTEREST WITH PERFORATION.

RESPECTFULLY SUBMITTED,  
 JEFF LAWLER

**WELL COMPARISON SHEET**

	EOR P&A 7-88												●				☒				☒						
	CITY SERVICES												JASON OIL COMPANY, LLC				BENSON, MONTIN, & HALL				GLACIER PETROLEUM CO, INC						
	GOFF #1												JOHN GODDARD #1				PARKS #1				GODDARD #1						
	GODDARD #1												SW SW SW 33-7-24				SW NW NW 4-8-24				SE SE NW 4-8-24				SW NE SW 33-7-24		
	KB	2442	GL	2437	KB	2449	KB	2394	KB	2401	KB	2469	KB	2469	KB	2469	KB	2469	KB	2469							
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG	SMPL.	LOGS		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	2104	338	2108	334	2107	342	- 4	- 8	2053	341	- 3	- 7	2065	336	+ 2	- 2	2141	328	+ 10	+ 6							
BASE	2138	304	2147	295					2083	311	- 7	- 16	2090	311	- 7	- 16											
TOPEKA	3471	-1029	3473	-1031					3413	-1019	- 10	- 12					3509	-1040	+ 11	+ 9							
HEEBNER	3676	-1234	3680	-1238	3675	-1226	- 8	- 12	3618	-1224	- 10	- 14	3645	-1244	+ 10	+ 6	3724	-1255	+ 21	+ 17							
TORONTO	3699	-1257	3705	-1263	3699	-1250	- 7	- 13	3642	-1248	- 9	- 15															
LKC	3711	-1269	3719	-1277	3712	-1263	- 6	- 14	3654	-1260	- 9	- 17	3662	-1261	- 8	- 16	3766	-1297	+ 28	+ 20							
BKC	3922	-1480	3922	-1480					3855	-1461	- 19	- 19	3884	-1483	+ 3	+ 3											
TOTAL DEPTH	3957	-1515	3958	-1516	3935	-1486	- 29	- 30	3898	-1504	- 11	- 12	3915	-1514	- 1	- 2	3975	-1506	- 9	- 10							

**DST #1 LKC D - F 3767' - 3800'**

 <p><b>TRILOBITE TESTING, INC.</b></p>	<p><b>DRILL STEM TEST REPORT</b></p>																																						
	<p>Jason Oil Company, LLC</p> <p>3718 83rd St PO Box 701 Russell, KS 67665 ATTN: Jeff Lawler</p>	<p><b>33-7S-24W Graham, KS</b></p> <p><b>Goddard #1</b></p> <p>Job Ticket: 58406      <b>DST#: 1</b></p> <p>Test Start: 2014.11.09 @ 08:31:17</p>																																					
<p><b>GENERAL INFORMATION:</b></p> <p>Formation: <b>KC "D-F"</b></p> <p>Deviated: No Whipstock: ft (KB)</p> <p>Time Tool Opened: 11:07:47</p> <p>Time Test Ended: 14:48:47</p> <p>Interval: <b>3767.00 ft (KB) To 3800.00 ft (KB) (TVD)</b></p> <p>Total Depth: 3800.00 ft (KB) (TVD)</p> <p>Hole Diameter: 7.88 inches Hole Condition: Fair</p> <p>Reference Elevations: 2442.00 ft (KB) 2437.00 ft (CF)</p> <p>KB to GR/CF: 5.00 ft</p>																																							
<p><b>Serial #: 8655      Outside</b></p> <p>Press@RunDepth: 103.04 psig @ 3768.00 ft (KB)</p> <p>Start Date: 2014.11.09      End Date: 2014.11.09</p> <p>Start Time: 08:31:18      End Time: 14:48:47</p> <p>Capacity: 8000.00 psig</p> <p>Last Calib.: 2014.11.09</p> <p>Time On Btm: 2014.11.09 @ 11:06:47</p> <p>Time Off Btm: 2014.11.09 @ 13:09:47</p>																																							
<p><b>TEST COMMENT:</b> 30- IF- BOB 26mins 30- IS- No blow 30- FF- Slowly built to 8.5" 30- FS- No blow</p>																																							
	<p><b>PRESSURE SUMMARY</b></p> <table border="1"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>A annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1897.77</td> <td>101.71</td> <td>Initial Hydro-static</td> </tr> <tr> <td>1</td> <td>13.50</td> <td>100.83</td> <td>Open To Flow (1)</td> </tr> <tr> <td>30</td> <td>62.72</td> <td>111.41</td> <td>Shut-in(1)</td> </tr> <tr> <td>62</td> <td>753.30</td> <td>109.95</td> <td>End Shut-In(1)</td> </tr> <tr> <td>63</td> <td>64.84</td> <td>109.91</td> <td>Open To Flow (2)</td> </tr> <tr> <td>90</td> <td>103.04</td> <td>114.26</td> <td>Shut-In(2)</td> </tr> <tr> <td>122</td> <td>713.66</td> <td>112.66</td> <td>End Shut-In(2)</td> </tr> <tr> <td>123</td> <td>1841.72</td> <td>111.41</td> <td>Final Hydro-static</td> </tr> </tbody> </table>			Time (Min.)	Pressure (psig)	Temp (deg F)	A annotation	0	1897.77	101.71	Initial Hydro-static	1	13.50	100.83	Open To Flow (1)	30	62.72	111.41	Shut-in(1)	62	753.30	109.95	End Shut-In(1)	63	64.84	109.91	Open To Flow (2)	90	103.04	114.26	Shut-In(2)	122	713.66	112.66	End Shut-In(2)	123	1841.72	111.41	Final Hydro-static
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**DST #2 LKC H - L 3836' - 3926'**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Jason Oil Company, LLC

3718 83rd St  
PO Box 701  
Russell, KS 67665  
ATTN: Jeff Lawler

**33-7S-24W Graham, KS**

**Goddard #1**

Job Ticket: 58407      **DST#: 2**  
Test Start: 2014.11.10 @ 01:56:38

**GENERAL INFORMATION:**

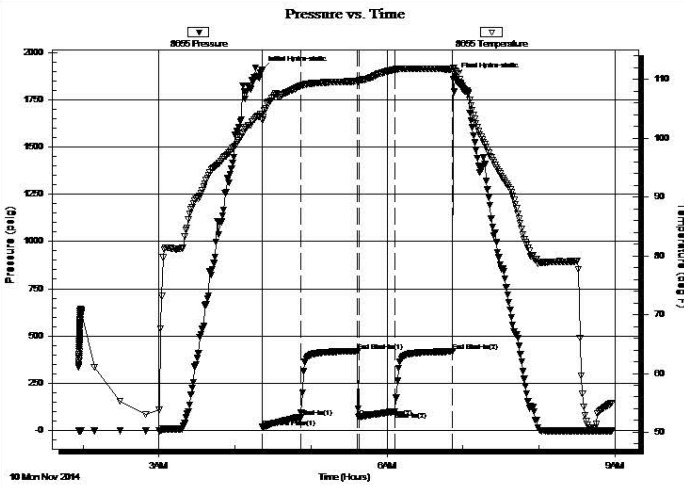
Formation: <b>KC "H-L"</b>		Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:      ft (KB)		Tester: Brannan Lonsdale
Time Tool Opened: 04:21:38		Unit No: 62
Time Test Ended: 08:57:08		
<b>Interval: 3836.00 ft (KB) To 3926.00 ft (KB) (TVD)</b>		Reference Elevations: 2442.00 ft (KB)
Total Depth: 3926.00 ft (KB) (TVD)		2437.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair		KB to GR/CF: 5.00 ft

**Serial #: 8655**

**Outside**

Press@RunDepth: 101.69 psig @ 3837.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.11.10	End Date: 2014.11.10
Start Time: 01:56:39	End Time: 08:57:08
	Time On Btm: 2014.11.10 @ 04:21:08
	Time Off Btm: 2014.11.10 @ 06:53:38

TEST COMMENT: 30- IF- BOB 23mins  
45- IS- No blow  
30- FF- BOB 28mins  
45- FS- Sporadic surface blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.38	104.10	Initial Hydro-static
1	17.80	103.11	Open To Flow (1)
31	68.49	108.91	Shut-In(1)
76	420.47	109.71	End Shut-In(1)
77	71.72	109.77	Open To Flow (2)
105	101.69	111.69	Shut-In(2)
151	418.11	111.75	End Shut-In(2)
153	1871.75	111.55	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
65.00	GOWM, 10%G 15%O 25%W 50%M	0.89
125.00	OCM, 20%O 80%M	1.71
10.00	GO, 10%G 90%O	0.14
0.00	55' GIP	0.00

\* Recovery from multiple tests

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

**ROCK TYPES**

- Lmst fw7>
- shale, gry
- Shblk
- shale, grn
- Carbon Sh
- shale, red

**ACCESSORIES**

**FOSSIL**

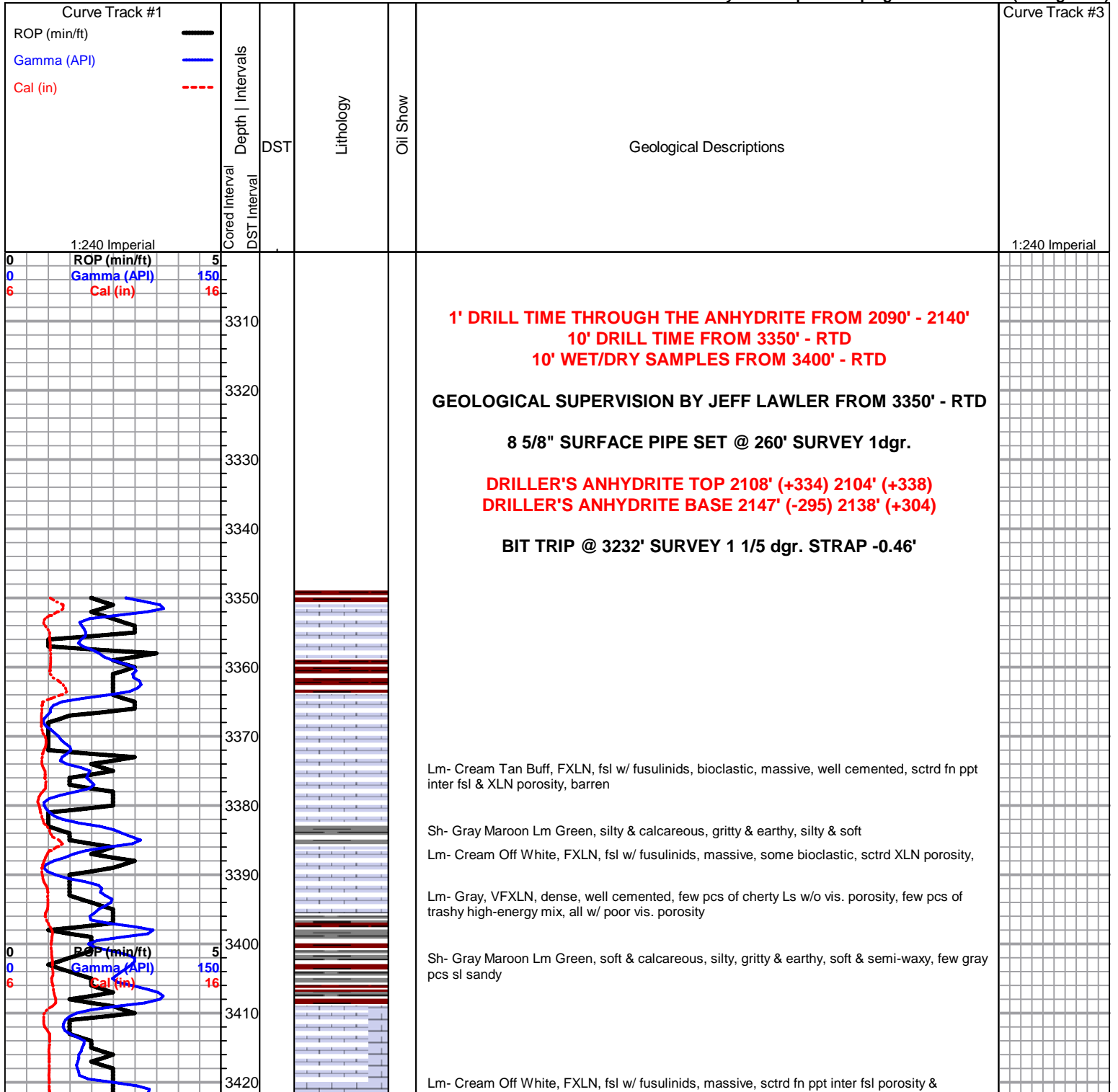
♢ Oolite

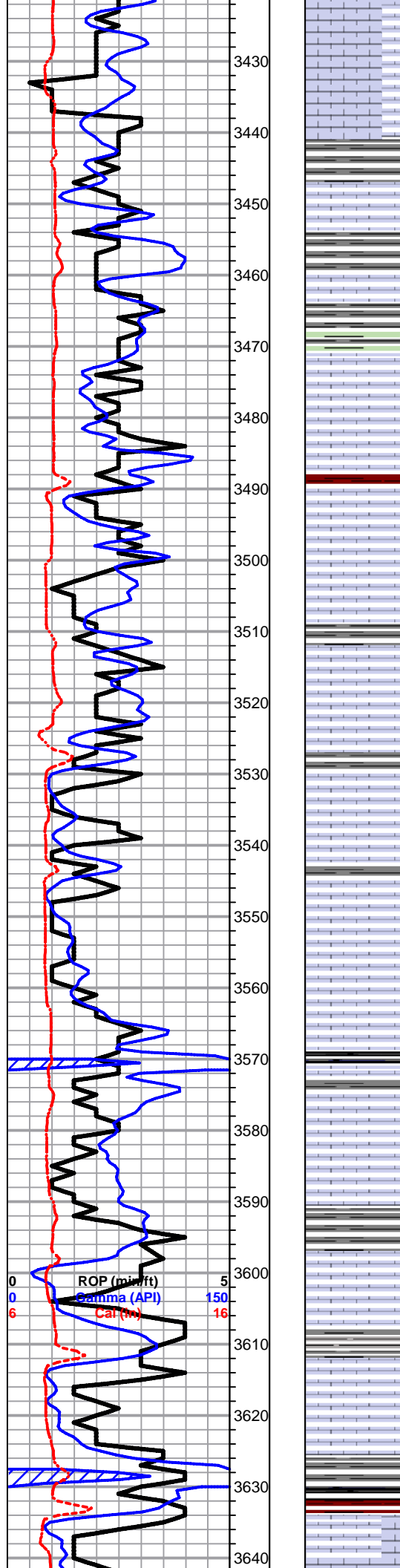
**OTHER SYMBOLS**

**DST**

- DST Int
- DST alt

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





secondary reXLN porosity, barren

Lm- A/A w/ incr. in silty & calcareous shale & siltstone

Sh- Gray Lm Green, silty & calcareous, dense & waxy, some frosted and brown fn grn loosely cemented Ss clusters, well sorted & consolidated, barren

Sh- A/A w/ sl incr. in ss clusters & gritty & earthy maroon shale

Lm- Cream Gray, FXLN, fsl w/ few loose crinoids & fusulinids, poorly dev. w/ sctrd XLN porosity, barren

**TOPEKA 3473' (-1031) E-LOG 3471' (-1029)** Lm- Lt Gray, VFXLN, dense, well cemented & tight, trashy high-energy bioclastic

Lm- Cream Off White, VFXLN, gritty & grainy, poor vis. porosity, barren

Lm- Gray Buff, VFXLN, dense, well cemented, trashy high-energy bioclastic w/ poor vis. porosity, few silty mud supported matrix

Lm- Cream Tan, VF-FXLN, dense, well cemented, fsl & poorly dev. w/ sctrd XLN porosity, few densely fsl pcs w/ min. effective porosity, few pcs of fresh bedded mustard colored chert

Sh- Gray Purple, silty & soft, gritty & earthy

Lm- Cream Off White, VF-FXLN, dense, vry clean, mostly tight w/ poor vis. porosity, some soft white chalk, sl incr. in milky white fsl fresh bedded chert

Lm- Gray, VFXLN, dense, well cemented, trashy, dense micro XLN porosity

Lm- Cream Off White, FXLN, dense, massive, fsl & oolitic, poorly dev. w/ min, effective porosity, sctrd micro XLN & XLN porosity, barren

Lm- Cream Off White, FXLN, fsl & oolitic, poorly dev. w/ XLN porosity, min. effective porosity & secondary reXLN porosity, clear replacement cementation, few pcs of cream fsl fresh bedded chert & some soft white chalk

Lm- Cream Off White, FXLN, dense, massive, gritty & grainy w/ micro XLN porosity, vry clean

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

Lm- Tan, VF-FXLN, dense, well cemented, semi-brittle, fsl, sctrd micro XLN & XLN porosity

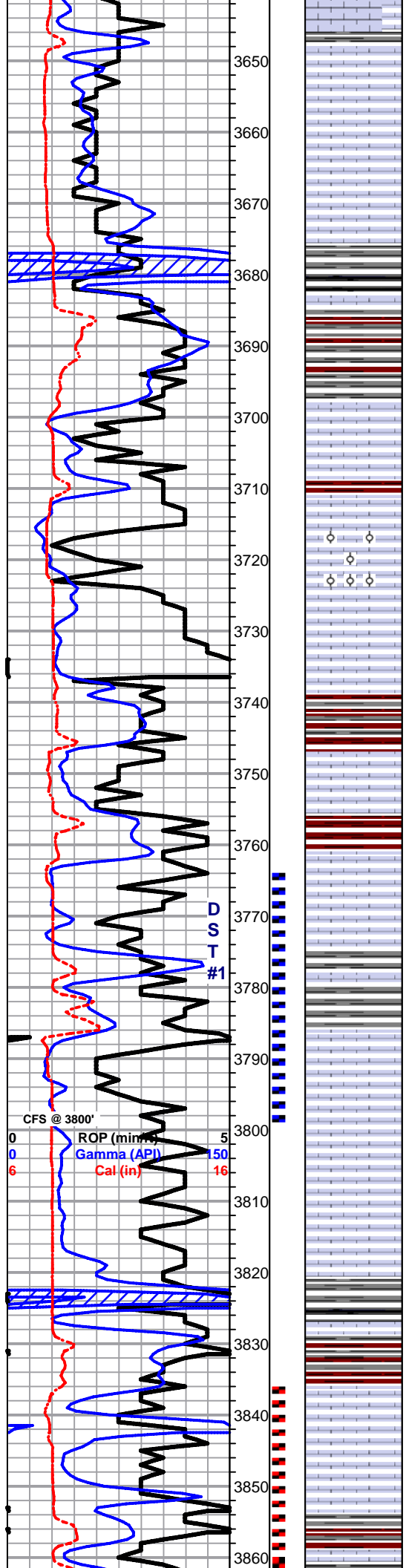
Sh- Gray Maroon, silty & soft, gritty & grainy, some semi-gummy wash

Lm- Cream Off White, FXLN, oolitic & fsl, mod. dev. w/ fn ppt inter oolite porosity, vry clean, barren

Sh- Gray Maroon Black, silty & soft, gritty & earthy, some dense black shale

Lm- Cream Off White, FXLN, fsl, well cemented, some massive, sctrd XLN & secondary reXLN porosity, vry clean

Sh- Black Gray Maroon, fissile, dense, carbonaceous, silty & soft, gritty & sl sandy



Lm- Tan, VFXLN, dense, vry well cemented & tight w/ sctrd XLN porosity

Lm- Cream Off White, FXLN, oolitic & fsl, massive, semi-granular, poor effective porosity, some clear replacement cementation, micro XLN & XLN porosity, barren

Lm- A/A w/ soft white chalk

Lm- Gray Buff, VFXLN, fsl, mostly tight w/ poor vis. & sctrd XLN porosity, few loose fusulinids

**HEEBNER 3680' (-1238) E-LOG 3676' (-1234)** Sh- Black Maroon, fissile & carbonaceous, gritty & earthy

Sh- Gray Maroon Brown, silty & soft, some sl calcareous, gritty & earthy

**TORONTO 3705' (-1263) E-LOG 3699' (-1257)** Lm- Cream Off White, VF-FXLN, dense, most loosely cemented & semi-crumbly, poor XLN porosity, some sl chalky in part, vry clean & barren

**LKC 3719' (-1277) E-LOG 3711' (-1269)** Lm- Cream Off White Mustard, VFXLN, mix of oolitic biomicrite & cherty Ls, all mostly w/o vis. porosity, clear replacement cementation, barren

Lm- Cream Off White, VFXLN, dense, well cemented, tight w/ min. micro XLN porosity, vry clean, some soft white chalk

Lm- Cream Off White, FXLN, oolitic, mod. dev. w/ sctrd ppt inter oolite porosity, some recrystallization w/in porosity, LT SCTRD STN, NO SFO, FR LT ODR

Lm- Cream Off White Milky White, mix of well dev. oolitic cluster w/ ppt interoolite porosity, some recrystallization w/in porosity, SCTRD DRK STN, TR FO W/ GSY BUBBLES UPON CRUSH, FR ODR, fresh bedded angular chert, clean & barren

Lm- Cream Off White, FXLN, oolitic, well dev. w/ consistent ppt inter oolite porosity, some recrystallization w/in porosity, DRK SCTRD STN, TR FO UPON CRUSH, FR-GD ODR, 2-3 PCS W/ SUB-SAT STN, several pcs of milky white fresh bedded chert

Lm- Cream Off White VF-FXLN, fsl, poorly dev. & mostly tight w/ sctrd XLN porosity, some soft white chalk, all clean & barren

Lm- Tan Cream, FXLN, dense, well cemented, gritty & grainy, sctrd-dense vry fn ppt porosity, SCTRD DRK STN, SL TR FO UPON CRUSH, FR ODR, milky white/gray chert

Lm- Cream Off White, FXLN, sl fsl, sctrd fn ppt inter fsl porosity, SCTRD LT STN, TR FO, FR ODR

Lm- Cream Off White, VFXLN, dense, well cemented, semi-brittle, tight w/ min. vis. porosity, some soft white chalk, all vry clean & barren

Lm- A/A w/ some Buff VFXLN, dense & tight w/ min. vis. porosity, few pcs of fresh bedded chert, all barren

Sh- Black Gray, fissile, dense & carbonaceous, silty & soft

Lm- Tan, VFXLN, sl fsl, trashy high-energy mix, tight w/ sctrd micro XLN porosity

Sh- Gray Maroon Lm Green, silty & soft, gritty & earthy, dense & waxy

Lm- Cream Off White, fsl w/ fusulinids, mod. dev. w/ sctrd ppt to small vuggy inter fsl porosity, some recrystallization w/in porosity, LT STN, NSFO, FR ODR, OILY SCUM ON TOP OF WET CUP

Lm- Buff Cream, VFXLN, dense, well cemented, mostly tight w/ min. vis. porosity, some soft white chalk, vry clean, barren

SHORT TRIP SURVEY 1 dgr.

DST #1  
LKC D - F  
3767' - 3800'

30-30-30-30

190' MW w OIL SHOW (60%W, 40%M)

IFFP: 14-63#  
FFP: 65-103#  
SIP: 753-714#

Rw: .14 @ 76 dgr.  
CHLOR: 50,000

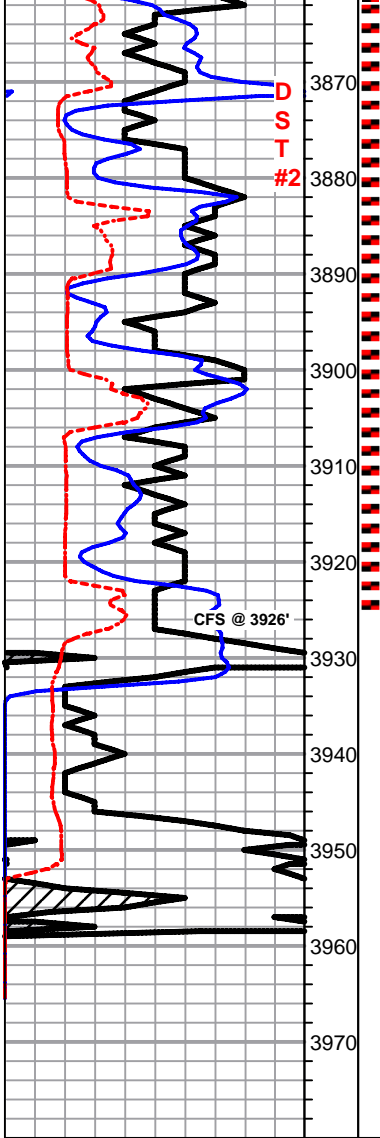
DST #2  
LKC H - L  
3836' - 3926'

30-45-30-45

55' GIP  
10' GSY OIL (10%G, 90%O)  
125' OCM (20%O, 80%M)  
65' GOWM (10%G, 15%O)

(10%AS, 15%O,  
25%N, 50%M)

IFP: 18-68#  
FFP: 73-102#  
SIP: 4520-418#  
HYD: 1906-1872#  
BHT: 112 dgr.  
Gr: 32



Sh- Maroon Gray, gritty & earthy, silty & soft, some sl pebbly

Lm- White Off White, VFXLN, dense vry fn ppt porosity, SCTRD LT STN, FAIR AMOUNT OF BLK DO STN, SL TR FO UPON CRUSH, WK ODR, FR AMOUNT OF FREE OIL FLOATING ON WET CUP

Sh- Gray Maroon, soft & silty, gritty & earthy

Lm- Cream Off White, FXLN, well dev. & oolitic w/ consistent ppt inter oolite porosity, EVEN DRK STN, FR SFO, HVY ODR, SMALL AMOUNT OF FREE OIL ON TOP OF WET CUP

Lm- Off White, FXLN, oolitic, well dev. w/ mostly consistent fn ppt inter oolite porosity throughout, SCTRD DRK STN, TR GSY BUBBLES UPON CRUSH, TR FO, WK-FR ODR

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

Lm- White Off White, VFXLN, dense, well cemented, mostly tight w/ sctrd XLN porosity, barren

**BKC 3922' (-1480) E-LOG 3922' (-1480)** Sh- Maroon Gray Lm Green, gritty & earthy, silty & calcareous, dense & semi-waxy

Lm- Cream Off White, VF-FXLN, dense, sl unconsolidated, sctrd XLN porosity, barren

Sh- Maroon Gray Lm Green, gritty & earthy, silty, some calcareous, dense & waxy, some sl pebbly

Sh- A/A

Lm- Cream Off White, FXLN, sl fsl, sl unconsolidated & chalky, sctrd XLN porosity, vry clean & barren

**RTD 3958' (-1516) LTD 3957' (-1515) @ 13:03 11/10/2014**

1st ATTEMPT TO  
LOG: HIT BRIDGE  
@ 3714'  
TIH CTCH  
FOR LOG