



**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       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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1076301

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

Electric Log Submitted Electronically  Yes  No  
*(If no, Submit Copy)*

List All E. Logs Run:

Log Formation (Top), Depth and Datum  Sample  
Name Top Datum

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

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<input type="checkbox"/> Commingled <i>(Submit ACO-4)</i> _____ _____



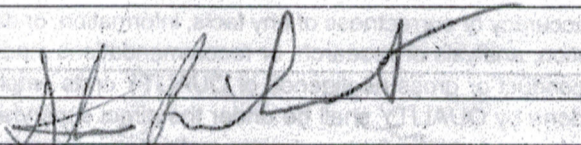
# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 5457  
3-7-12

Date	3-6-12	Sec.	5	Twp.	8	Range	24	County	Graham	State	Ks	On Location		Finish	12:15 AM	
Lease	Teel	Well No.	4		Location Penokee, KS - 1W, 2N to S Rd, 150											
Contractor	Royal Rig #1							Owner: Sinto								
Type Job	Bottom stage							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementing equipment and helper to assist owner or contractor to do work as listed.								
Hole Size	7 7/8"		T.D.		3870'		Charge To Jason oil									
Csg.	5 1/2" 15.5H		Depth		3862'		Street									
Tbg. Size			Depth				City									
Tool	DW Tool		Depth		2028'		State									
Cement Left in Csg.	27.53'		Shoe Joint		27.53'		The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace		92 BLS		Cement Amount Ordered 200 Common 10% Salt									
EQUIPMENT							5% Gilsomite - 500 gal Mud Clear 48									
Pumptrk	15	No.	Cement	Cisco		P.U. Rick		Common								
Bulktrk	14	No.	Driver	Dauger				Poz. Mix								
Bulktrk	13	No.	Driver	Nick				Gel.								
JOB SERVICES & REMARKS							Calcium									
Remarks:								Hulls								
Rat Hole	plug on top stage							Salt								
Mouse Hole								Flowseal								
Centralizers	1, 3, 5, 7, 9, 11							Kol-Seal								
Baskets	2, 44							Mud CLR 48								
D/V or Port Collar	2028', Collar of 44" Jt.							CFL-117 or CD110 CAF 38								
	pipe on bottom, Break Circ.							Sand								
	pump 500 gal Mud Clear 48							Handling								
	pump 500 gal of water							Mileage								
	pump 200 sx Common 10% Salt							FLOAT EQUIPMENT								
	5% Gilsomite shut down							Guide Shoe								
	wash pump + lines, Released							Centralizer 1 Reg, 6 turbo's								
	latch down plug + Displaced							Baskets 2								
	with 42 BLS of water + 50 BLS							AFU Inserts								
	of mud for a total of 92 BLS							Float Shoe 1								
	Lift pressure 800 #							Latch Down								
	Load plug at 1200 #							1-DW Tool w/ latch down								
	Released + held Acop Part							14 - Recip. Separator								
	and open tool with 1200 #							Pumptrk Charge								
								Mileage								
								Tax								
								Discount								
								Total Charge								
X Signature																



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

No. 5458

Date	3-7-12	Sec.	5	Twp.	8	Range	24	County	Graham	State	Ks	On Location		Finish	2:15 AM	
Lease	Teel	Well No.	4			Location Penokee Ks - 1W, 2N to S Rd, 1E W										
Contractor	Royal Rig #1							Owner: S. J. J. J.								
Type Job	Reproduction	Top Stone							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.							
Hole Size	7 7/8"	T.D.	3870'													
Csg.	5 1/2"	Depth	<del>3870'</del> 3862'													
Tbg. Size		Depth	3862'													
Tool	DU Tool	Depth	2028'													
Cement Left in Csg.		Shoe Joint														
Meas Line		Displace	48 1/2 bbls					Cement Amount Ordered 375 sy QMDC 4#Flo-seal								

**EQUIPMENT**

Pumptrk	15	No.	Cementor	Cisco	Common
Bulktrk	13	No.	Driver	Nick	Poz. Mix
Bulktrk	14	No.	Driver	Rick	Gel.

**JOB SERVICES & REMARKS**

Remarks:	Cement did Circulate	Calcium
Rat Hole	30 SX	Hulls
Mouse Hole	15 SX	Salt
Centralizers		Flowseal
Baskets		Kol-Seal
D/Y or Port Collar	44# JT - 2028'	Mud CLR 48
pipe on bottom, break Circulate		CFL-117 or CD110 CAF 38
plug Rat hole w/ 30 SX		Sand
plug mousehole w/ 15 SX		Handling
Cement 5 1/2" casing w/ 330 sy		Mileage

**FLOAT EQUIPMENT**

QMDC 4#Flo-seal shut down	Guide Shoe
wash pump + lines, Released	Centralizer
plug + Displaced with 48 1/2	Baskets
all of water	AFU Inserts
	Float Shoe
Lift pressure 750 #	Latch Down
Load plug + closed tool 1200#	

	Pumptrk Charge	
	Mileage	
Signature: Stan Richards		Tax
		Discount
		Total Charge

X Signature: Stan Richards

*Handwritten signature/initials*



# 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. 637

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-29-12	16	6	22	Greene	KS		7:00pm
Lease <u>Teeter</u>	Well No. <u>4</u>		Location <u>Proctor 2nd Rd 1902 - R25 1/2 W Sinto</u>				
Contractor <u>Royal #1</u>				Owner			
Type Job <u>Surface</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.			
Hole Size <u>12 1/4</u>	T.D. <u>236</u>			Charge To <u>Jason O. I</u>			
Csg. <u>8 5/8</u>	Depth <u>236</u>			Street			
Tbg. Size	Depth			City			
Tool	Depth			State			
Cement Left in Csg. <u>LS</u>	Shoe Joint			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace <u>14BC</u>			Cement Amount Ordered <u>150 com 340cc 2/26-1</u>			
<b>EQUIPMENT</b>							
Pumptrk <u>5</u>	No.	Cementer <u>Craig</u>	Common <u>130</u>				
Bulktrk	No.	Driver <u>BCH</u>	Poz. Mix				
Bulktrk <u>12</u>	No.	Driver <u>LIVY</u>	Gel. <u>3</u>				
<b>JOB SERVICES &amp; REMARKS</b>							
Remarks:				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
<u>8 5/8 on bottom flow + circulation</u>			Sand				
<u>Mix 150/50/50 Displace</u>			Handling <u>138</u>				
<u>Cement Circulation</u>			Mileage				
<b>FLOAT EQUIPMENT</b>							
Guide Shoe							
Centralizer							
Baskets							
AFU Inserts							
Float Shoe							
Latch Down							
Pumptrk Charge <u>Surface</u>				Tax			
Mileage <u>27</u>				Discount			
Signature <u>Wally Budig</u>				Total Charge			



Scale 1:240 Imperial

Well Name: TEEL #4  
Surface Location: N2 SE SE NE 5-8S-24W  
Bottom Location:  
API: 15-165-23811-0000  
License Number: 33813  
Spud Date: 2/29/2012 Time: 3:34 PM  
Region: GRAHAM  
Drilling Completed: 3/6/2012 Time: 6:42 PM  
Surface Coordinates: 2165 FNL & 330 FEL  
Bottom Hole Coordinates:  
Ground Elevation: 2369.00ft  
K.B. Elevation: 2374.00ft  
Logged Interval: 238.00ft To: 3868.00ft  
Total Depth: 3870.00ft  
Formation:  
Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

**OPERATOR**

Company: JASON OIL COMPANY, LLC  
Address: P.O. BOX 701  
RUSSELL, KS 67665  
  
Contact Geologist: JIM SCHOENBERGER  
Contact Phone Nbr: (785) 483-4204  
Well Name: TEEL #4  
Location: N2 SE SE NE 5-8S-24W API: 15-165-23811-0000  
Pool: Field: NANA NORTHWEST  
State: KANSAS Country: USA

**SURFACE CO-ORDINATES**

Well Type: Vertical  
Longitude: -100.0136759 Latitude: 39.3869642  
N/S Co-ord: 2165 FNL  
E/W Co-ord: 330 FEL

**LOGGED BY**



Company: SOLUTIONS CONSULTING  
Address: 108 W 35TH  
HAYS, KS 67601  
  
Phone Nbr: (785) 259-3737  
Logged By: Geologist Name: JEFF LAWLER

**CONTRACTOR**

Contractor: ROYAL DRILLING INC.  
Rig #: 1  
Rig Type: MUD ROTARY  
Spud Date: 2/29/2012 Time: 3:34 PM  
TD Date: 3/6/2012 Time: 6:42 PM  
Rig Release: 3/7/2012 Time: 7:00 AM

**ELEVATIONS**

K.B. Elevation: 2374.00ft Ground Elevation: 2369.00ft  
K.B. to Ground: 5.00ft

**NOTES**


NOTES  
 DUE TO ECONOMICAL RECOVERY ON DST #2 & #3 AND STRUCTURAL POSITION DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING AND FURTHER EVALUATE ZONES WITH OIL SHOWS, LOG ANALYSIS, AND FAVORABLE DRILLSTEM TEST RESULTS.

RESPECTFULLY SUBMITTED,  
 JEFF LAWLER

**WELL COMPARISON SHEET**

FORMATION	P&A				EOR P&A				II				•											
	IMPERIAL OIL OF KS				IMPERIAL OIL OF KS				IMPERIAL OIL OF KS				JASON OIL											
	GOFF #5				NANA NW LKC 304-W				GOFF C#1				TEEL #2											
	TEEL #4				NE SE NE 5-8-24				NW SW NW 4-8-24				NW NW SW 4-8-34											
	KB	2374	GL	2369	KB	2391			KB	2363			KB	2373			KB	2358						
	LOG TOPS		SAMPLE TOPS		CARD/SMPL TOPS		LOG	SMPL	CARD/SMPL TOPS		LOG	SMPL	DATA SOURCE		LOG	SMPL	DATA SOURCE		LOG	SMPL				
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM			DEPTH	DATUM			DEPTH	DATUM			DEPTH	DATUM			DEPTH	DATUM			
ANHYDRITE TOP	2028	346	2027	347	2042	349	- 3	- 2	2010	353	- 7	- 6	2022	351	- 5	- 4	2022	336	+ 10	+ 11				
BASE	2059	315	2054	320													2054	304	+ 11	+ 16				
TARKIO																								
TOPEKA	3388	-1014	3388	-1014													3383	-1025	+ 11	+ 11				
OREAD																								
HEEBNER SHALE	3595	-1221	3594	-1220	3612	-1221	+ 0	+ 1	3582	-1219	- 2	- 1	3612	-1239	+ 18	+ 19	3587	-1229	+ 8	+ 9				
TORONTO	3617	-1243	3620	-1246	3634	-1243	+ 0	- 3	3605	-1242	- 1	- 4	3632	-1259	+ 16	+ 13	3609	-1251	+ 8	+ 5				
DOUGLAS																								
BROWN LIME																								
LKC	3632	-1258	3630	-1256	3643	-1252	- 6	- 4	3617	-1254	- 4	- 2	3648	-1275	+ 17	+ 19	3622	-1264	+ 6	+ 8				
BKC	3826	-1452	3834	-1460	3854	-1463	+ 11	+ 3									3827	-1469	+ 17	+ 9				
CONGLOMERATE/QTZ																								
MISSISSIPPIAN																								
ARBUCKLE																								
RTD			3870	-1496					3845	-1482		- 14	3845	-1472		- 24	3870	-1512						+ 16
LTD	3868	-1494															3871	-1513	+ 19					

**DST #1 LKC "D,E"**



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Jason Oil CO. **5-8-24, Graham, Ks**

PO Box 701 **teel #4**  
 Russell Ks 67665 Job Ticket: 46032 **DST#: 1**

ATTN: Jeff Lawler Test Start: 2012.03.04 @ 12:15:56

**GENERAL INFORMATION:**

Formation: **KC"D,E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:08:26  
 Time Test Ended: 18:29:56

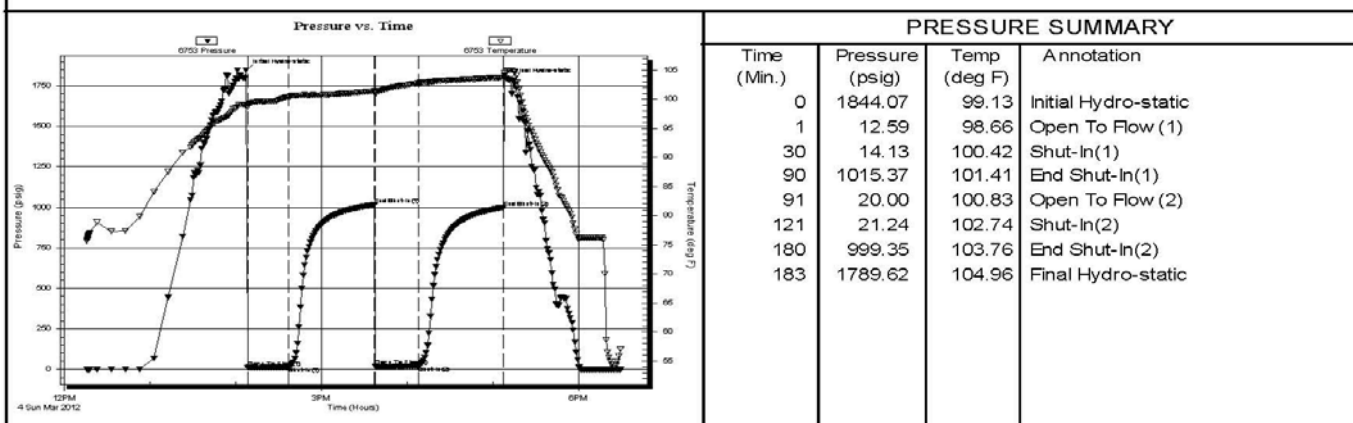
Interval: **3669.00 ft (KB) To 3698.00 ft (KB) (TVD)**  
 Total Depth: 3698.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2374.00 ft (KB)  
 2369.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6753 Outside**

Press@RunDepth: 21.24 psig @ 3670.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.03.04 End Date: 2012.03.04 Last Calib.: 2012.03.04  
 Start Time: 12:15:56 End Time: 18:29:56 Time On Btm: 2012.03.04 @ 14:07:26  
 Time Off Btm: 2012.03.04 @ 17:10:26

**TEST COMMENT:** IF-2.5in blow  
 ISI-No blow  
 FF-1in blow  
 FSI-No blow



Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 20%O 80%M	0.07
10.00	VSGO 5%G 95%O	0.14

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 46032

Printed: 2012.03.04 @ 18:42:36

DST #2 LKC "F,G"



**TRILOBITE TESTING, INC**

DRILL STEM TEST REPORT

Jason Oil CO.

5-8-24, Graham, Ks

PO Box 701  
Russell Ks 67665

teel #4

Job Ticket: 46033

DST#: 2

ATTN: Jeff Lawler

Test Start: 2012.03.04 @ 23:35:50

GENERAL INFORMATION:

Formation: **KC "F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:20

Time Test Ended: 05:55:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: **3698.00 ft (KB) To 3708.00 ft (KB) (TVD)**

Reference Elevations: 2374.00 ft (KB)

Total Depth: 3708.00 ft (KB) (TVD)

2369.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Outside

Press@RunDepth: 142.57 psig @ 3699.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.04

End Date:

2012.03.05

Last Calib.: 2012.03.05

Start Time: 23:35:55

End Time:

05:55:19

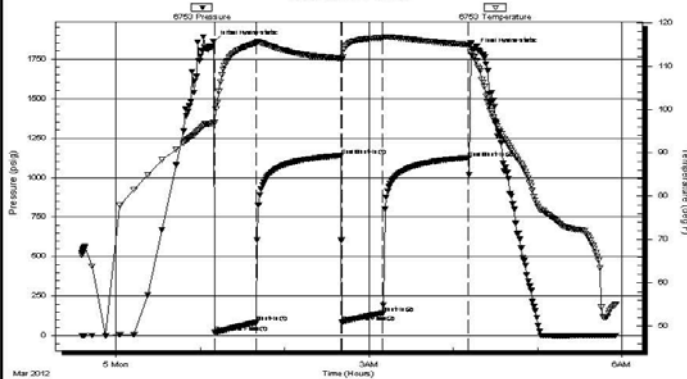
Time On Btm: 2012.03.05 @ 01:09:20

Time Off Btm: 2012.03.05 @ 04:14:20

TEST COMMENT:

IF-BOB in 16min  
ISI-No blow  
FF-BOB in 24min  
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Anotation
0	1859.05	97.01	Initial Hydro-static
1	19.71	96.95	Open To Flow (1)
31	83.66	115.26	Shut-In(1)
91	1139.15	111.73	End Shut-In(1)
92	87.18	111.38	Open To Flow (2)
121	142.57	116.47	Shut-In(2)
182	1126.32	114.91	End Shut-In(2)
185	1812.80	112.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
274.00	Water	3.84
1.00	Free Oil	0.01

Gas Rates

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

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 46033

Printed: 2012.03.05 @ 06:21:30



**DST #3 LKC "J,K,L"**



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Jason Oil CO.

**5-8-24, Graham, Ks**

PO Box 701  
Russell Ks 67665

**teel #4**

Job Ticket: 46034

**DST#: 3**

ATTN: Jeff Lawler

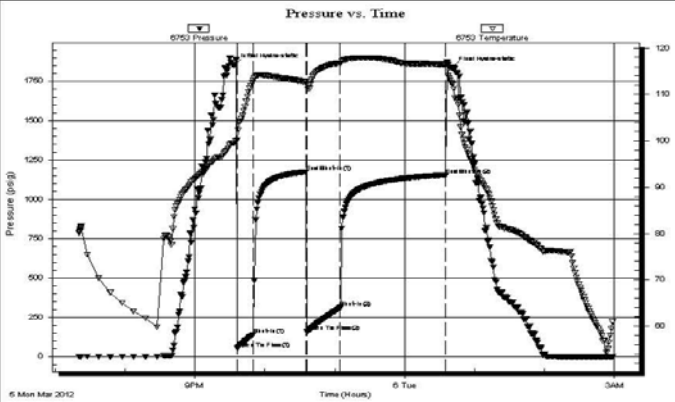
Test Start: 2012.03.05 @ 19:20:38

**GENERAL INFORMATION:**

Formation: **KC "I-L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:36:08  
 Time Test Ended: 02:58:08  
 Interval: **3785.00 ft (KB) To 3834.00 ft (KB) (TVD)**  
 Total Depth: 3834.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2374.00 ft (KB)  
 2369.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6753 Outside**  
 Press@RunDepth: 311.02 psig @ 3786.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.03.05 End Date: 2012.03.06 Last Calib.: 2012.03.06  
 Start Time: 19:20:38 End Time: 02:58:08 Time On Btm: 2012.03.05 @ 21:33:38  
 Time Off Btm: 2012.03.06 @ 00:40:38

**TEST COMMENT:** IF-BOB in 2min  
 ISI-BOB in 27min  
 FF-BOB in 3min  
 FSI-BOB in 75min



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.48	99.53	Initial Hydro-static
3	53.34	100.18	Open To Flow (1)
17	142.04	112.99	Shut-In(1)
62	1175.75	112.78	End Shut-In(1)
63	161.34	112.17	Open To Flow (2)
91	311.02	116.77	Shut-In(2)
182	1156.65	116.40	End Shut-In(2)
187	1837.77	112.42	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	GSWOCM 20%G 15%O 10%VW 55%M	0.84
60.00	GMCO 20%G 65%O 15% M	0.84
590.00	GO 30%G 70%O	8.28
0.00	1540ft GIP	0.00

**Gas Rates**

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

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 46034

Printed: 2012.03.06 @ 03:13:30

**ROCK TYPES**

Cht	shale, grn	shale, red	Arg/Shale
Lmst fw<7	shale, gry	Shcol	
Lmst fw>7	Carbon Sh	Ss	

**ACCESSORIES**

**FOSSIL**

◇ Oolite

**STRINGER**

~~~~~ Chert

█████ Dolomite



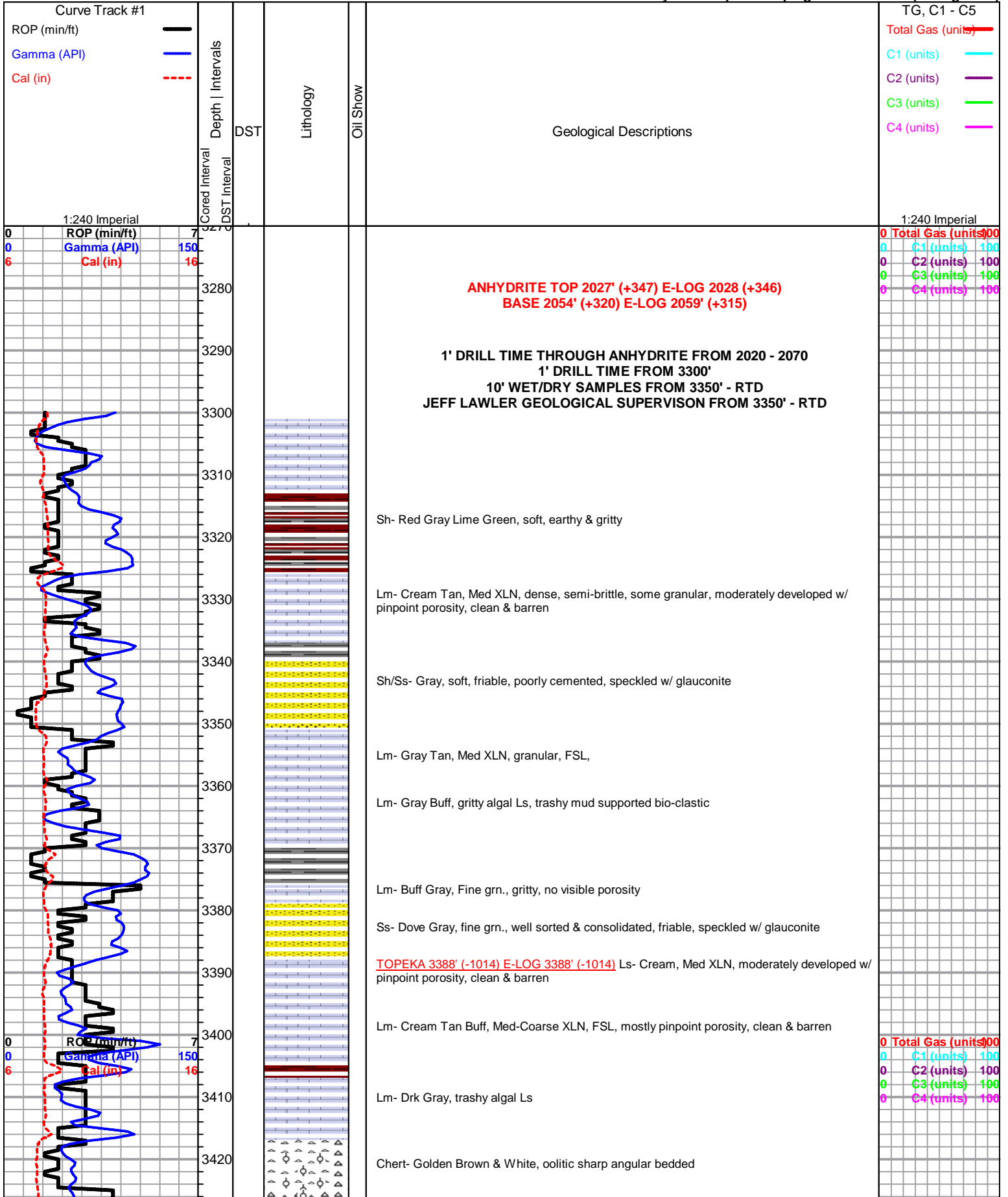
red shale

### OTHER SYMBOLS

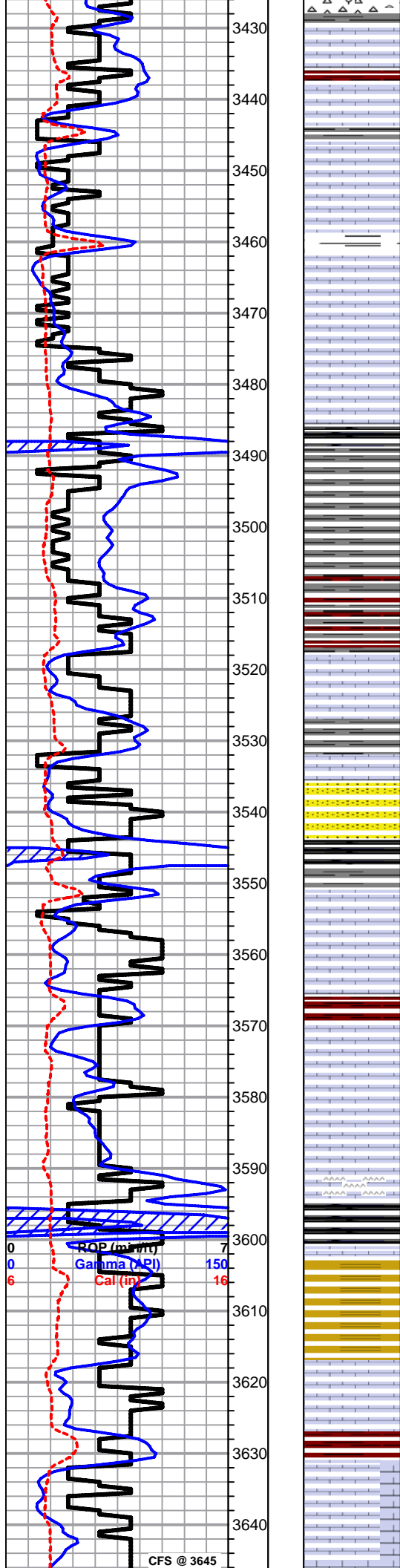
#### DST

- DST Int
- DST alt
- Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)







Sh- Gray Red Maroon, sticky chalky clumps, gritty, soft

Lm- Cream Tan, VF-Med XLN, mostly dense, siliceous, some granular w/ consistent pinpoint porosity, clean & barren

Lm- Gray, dense, trashy, some well cemented, dense cherty Ls

Lm- Cream Tan, Med grn., massive, dense, well cemented, granular, moderately developed w/ pinpoint porosity throughout

Lm- Off White, Fine grn., well cemented, gritty & grainy, slightly dolomitic, clean & barren

Sh- White, abundant white sticky chalky

Lm/Chert- Off White, VF XLN, Med grn., loosely cemented, developed w/ pinpoint porosity, FSL w/ fusulinids, few chips of angular white chert

Sh- Black Red Lime Green, dense, fissile, gritty, earthy, soft

Sh- Gray, slighty sandy shale & calcareous lime

Sh- A/A w/ maroon & red, gritty & earthy

Lm- Cream Gray, FXLN, dense, siliceous, semi-brittle, minimal visible porosity, few chips of various colored bedded chert

Lm- Gray, FXLN, A/A, trashy, dirty

Sh- Gray Red Maroon Lime Green, soft, sticky white chalk, few FSL chalky limes

Ss-Lt Gray Cream, VF grn., consolidated, very well sorted, slightly calcareous, loosely cemented, clean & barren

Sh- Black Gray, fissile, dense, well compacted

Lm- Cream Off White, VF XLN, dense, semi-brittle, siliceous, scattered pinpoint porosity, few chips of cream bedded chert

Lm- Cream Tan, VF XLN, dense, tight cherty Ls, mostly w/ no visible porosity, few chips of dense oolitic Ls w/ siliceous cementation

Lm- dense oolitic Ls A/A w/ cream FXLN, dense w/ abundant secondary intraparticle XLN porosity, clean & barren

Lm- Cream Tan, FXLN, mostly dense, few granular, moderately developed, scattered porosity, FSL, few w/ DRK BLK VERY SCATTERED STN, THICK, NO ODR,

Lm- Gray Lt Brown, FXLN, dense cherty Ls, scattered XLN porosity

**HEEBER 3594' (-1220) E-LOG 3595' (-1221)** Sh- Black Gray Brown Red Lime Green, dense, fissile, carbonaceous, soft & earthy, lime green wash

Sh- Lt Brown Lime Green wash

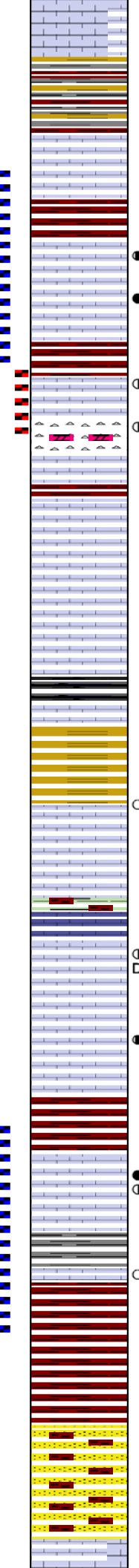
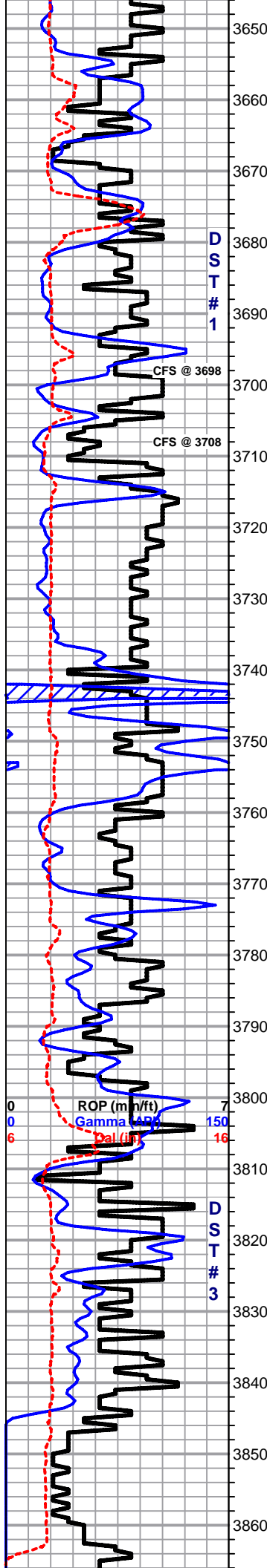
**TORONTO 3620' (-1246) E-LOG 3617' (-1243)** Lm- Cream Tan, F-Med XLN, mostly dense w/ secondary XLN porosity, some granular w/ moderate development, slightly dolomitic, pinpoint porosity, clean & barren

**LKC 3630' (-1256) E-LOG 3631' (-1257)** Lm- Cream Buff, VF-F XLN, dense, oolitic w/ siliceous cementation, slightly FSL w/ crinoids & fusulinids, chalky in part,

Lm- Off White Cream, VF-F XLN, dense, well cemented, slightly cherty LS, minimal

|   |                   |     |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units)        | 100 |
| 0 | C2 (units)        | 100 |
| 0 | C3 (units)        | 100 |
| 0 | C4 (units)        | 100 |





development w/ limited visible porosity, clean

Sh- Gray Brown Red, soft, slightly unconsolidated & pebbly

Lm- Cream White, VF-F XLN, clean, dense, scattered XLN porosity, mostly dense w/ no visible porosity, tight

Lm- Cream Tan, F-Med XLN, abundant XLN porosity, well developed, consistant pinpoint primary porosity, LT GSY SATURATED STN, GD ODR, SL SFO, chips of semi-translucent sharp angular bedded chert

Lm- Off White, Med-Coarse XLN, very well developed, FSL, good consistant sub-vugular porosity, DRK SATURATED STN, FO, FR ODR

Lm- White, Med-Coarse, oolitic, FSL, well developed, DRK SCATTERED GSY STN, ODR, SL FO UPON CRUSH

Chert/Dolomite- Cream Tan, dense, well cemented, mostly w/ consistant pinpoint porosity, some slightly dolomitic chert, LT GSY STN, GOOD ODR

Lm- Cream Off White, FXLN, dense, scattered XLN porosity, tight, poorly developed, chalky in part

Lm- A/A, slightly cherty Ls, less development

Sh- Black Brown Maroon, fissile, well compacted, blocky, few soft, gritty chips  
Lm- Lt Brown Tan Drk Gray, FXLN, trashy, semi-brittle, siliceous, some bio-clastics

Sh- Brown Lime Green Gray

Lm- Cream Off White, Med-Coarse XLN, slightly FSL, oolitic, partially well developed thin break, sub-vugular porosity, VERY SCATTERED LT STN, NSFO, SL ODR UPON CRUSH

Sh- Lime Green Maroon Gray, waxy, dense, well compacted, blocky

Lm- Buff, Fine grn., dense, slightly chalky algal Ls, no visible porosity

Lm- Cream Tan Lt Brown, Fine grn., well cemented, consistant pinpoint porosity, DRK STN, SL SFO, FNT ODR, \*\*CONSIDERABLE AMOUNT OF RESIDUAL HYDROCARBON NOTED\*\*

Lm- Cream Off White, Mid XLN, well developed, consistant pinpoint porosity, LGT GSY STN, SL SFO, FR ODR, LT GSY SHEEN

Lm- Cream Tan, Med-Coarse XLN, FSL, oolite clusters, well developed w/ consistant vuggy porosity, good intraconnectivity, FXLN, moderately well developed w/ consistant pinpoint porosity, GOOD DRK HVY STN, SCATTERED TO SATURATED, SFO UPON CRUSH, GOOD GSY SHEEN, FNT ODR

Lm- Lt Brown Cream, F-Med XLN, mostly dense, well cemented w/ limited porosity, few chips of well developed, sl FSL, good pinpoint porosity w/ DRK STN, FO UPON CRUSH, NO ODR

BKC 3834' (-1460) E-LOG 3825' (-1451) Sh- Red Maroon Brown Gray, soft, gritty & earthy, few slightly unconsolidated & pebbly, lt gray wash

Sh/Ss- A/A, w/ red sandy shales and shaley Ss, vf grn., well sorted, consolidated, loosely cemented

Lm- Cream Buff, Fine grn., FXLN, mostly semi-soft mud supported matrix, few dense, semi-

**SHORT TRIP  
SLOPE 1 dgr.**

**DST #1  
3669-3698**

|   |                   |     |
|---|-------------------|-----|
| 0 | Total Gas (units) | 100 |
| 0 | C1 (units)        | 100 |
| 0 | C2 (units)        | 100 |
| 0 | C3 (units)        | 100 |
| 0 | C4 (units)        | 100 |

**MINI TRIP  
SLOPE 1 dgr.**

**DST #3  
3785-3834**

3870

LT: Clean Dun, fine gr., XLN, mostly semi-sol mud supported matrix, low dense, semi brittle XLN w/ limited visible porosity, clean & barren

RTD 3870' (-1496) LTD 3868' (-1494) @ 06:42 3/6/2012