



KANSAS CORPORATION COMMISSION 1076301
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

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- 83RD ST

Address 2: PO BOX 701

City: RUSSELL State: KS Zip: 67665 + 0701

Contact Person: Jim Schoenberger

Phone: (785) 483-4204

CONTRACTOR: License # 33905

Name: Royal Drilling Inc

Wellsite Geologist: Jeff Lawler

Purchaser:

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #:

02/29/2012 03/06/2012 04/17/2012

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

API No. 15 - 15-065-23811-00-00

Spot Description:

N2 SE SE NE Sec. 5 Twp. 8 S. R. 24 East West

2165 Feet from North / South Line of Section

330 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Graham

Lease Name: Teel

Well #: 4

Field Name:

Producing Formation: Arbuckle

Elevation: Ground: 2376 Kelly Bushing: 0

Total Depth: 3870 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 236 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: Feet

If Alternate II completion, cement circulated from: 2028

feet depth to: 0 w/ 375 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 16000 ppm Fluid volume: 500 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Jason Oil Company, LLC

Lease Name: Teel A1 License #: 33813

Quarter NW Sec. 5 Twp. 8 S. R. 24 East West

County: Graham Permit #: D-30616

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: Deanna Gansor Date: 04/20/2012



1076301

Operator Name: Jason Oil Company, LLC

Lease Name: Teel

Well #: 4

Sec. 5 Twp. 8 S. R. 24 East West

County: Graham

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 Log Formation (Top), Depth and Datum Sample
 (Attach Additional Sheets)

	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Name	Top	Datum
Samples Sent to Geological Survey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Anhydrite Top	2028	346
Cores Taken	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Base	2059	315
Electric Log Run	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Topeka	3388	-1014
Electric Log Submitted Electronically	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Heebner	3595	-1221
			Toronto	3388	-1014
			LKC	3632	-1258
			BKC	3826	1452

List All E. Logs Run:

Dual Induction
Dual Porosity
Microresistivity

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	0	236	common	150	3%cc 2%gel
Top Stage	7.875	5.5	0	3862	QMDC	375	1/4#flo-seal
Bottom	7.875	5.5	15.5	3862	Common	200	10%salt 5% gilsonite

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				

PERFORATION RECORD - Bridge Plugs Set/Type
Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record
(Amount and Kind of Material Used)

Shots Per Foot	Depth

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

Date of First, Resumed Production, SWD or ENHR. 4/18/2012
 Producing Method: Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50		0		

DISPOSITION OF GAS:

Vented Sold Used on Lease
 (If vented, Submit ACO-18.)

METHOD OF COMPLETION:

Open Hole Perf. Dually Comp. Commingled
 (Submit ACO-5) (Submit ACO-4)
 Other (Specify)

PRODUCTION INTERVAL:

QUALITY OILWELL CEMENTING, INC.

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 - 11W, 22N to S Rd, 13E							
Contractor	Royal Rig #1				Owner		SKT, etc.								
Type Job	Bottom Stage				To		Quality Oilwell Cementing, Inc.								
Hole Size	7 7/8"		T.D.	3870'		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Csg.	5 1/2" 15.5'		Depth	3862'		Charge To		Jason Oil							
Tbg. Size			Depth			Street									
Tool	DL Tool		Depth	2028'		City		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

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

JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal
Baskets	Kot-Seal
D/V or Port Collar	Mud CLR 48
pipe on bottom	CFL-117 or CD110 CAF 38
Break Circ.	Sand
500 gal Mud Clean 48	Handling
plunge 5 Bar of water	Mileage
200 5/8 Common 10% Salt	

FLOAT EQUIPMENT

Guide Shoe	1 Reg, 6 turbo's
Centralizer	2
Baskets	AFU Inserts
AFU Inserts	Float Shoe 1
Float Shoe	Latch Down
Latch Down	1-DU Tool w/ latch down
1-DU Tool w/ latch down	14 - Rucup Scratcher
14 - Rucup Scratcher	Pumptrk Charge
Pumptrk Charge	Mileage

X Signature

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

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

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 PM	
Lease	Teel	Well No.	4		Location Penokee, Ks - 1W, 2N to S.R. 1E W										
Contractor	Royal King #1				Owner S. J. Inho										
Type Job	Reconstruction	Top Stage				To Quality Oilwell Cementing, Inc.									
Hole Size	7 7/8"	T.D.	3870'		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Csg.	5"	Depth	3362'		Charge To Jason Oil										
Tbg. Size		Depth	3362'		Street										
Tool	D.W. Tool	Depth	2025'		City										
Cement Left in Csg.		Shoe Joint			State										
Meas Line		Displace	48 1/2 bbls		The above was done to satisfaction and supervision of owner agent or contractor.										
					Cement Amount Ordered 375 ss CDWDC 4HF/5-SS										

EQUIPMENT

Pumptrk 15 No.	Cementor	1500	Common
Bulktrk 12 No.	Helper	1500	Common
Bulktrk 12 No.	Driver	1500	Poz. Mix
Bulktrk 12 No.	Driver	1500	Gal.

JOB SERVICES & REMARKS

Remarks:	Crane, etc. Circulate.	Calcium
Rat Hole	30 ss	Hulls
Mouse Hole	15 ss	Salt
Centralizers		Flowseal
Baskets		Koi-Seal
(D/W) or Port Collar	11 1/2" T+ - 2025'	Mud CLR 48
	guide on bottom, break Circulation	CFL-117 or CD110 CAF 38
	plug Rat hole with 30 ss	Sand
	plug mouse hole with 15 ss	Handling
	Cement 5" casing with 330 ss	Mileage

FLOAT EQUIPMENT

	POD 4 1/2" seal shut down	Guide Shoe
	with pump + lines, Released	Centralizer
	plug + Displaced with 45 ss	Baskets
	all at once	AFU Inserts
		Float Shoe
	1 1/2" pressure 750 #	Latch Down
	lost plug + closed tool 1200 #	

Signature: *John Richards*
John Richards
 Signature: *Bill He*

	Tax
	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

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

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

No. 637

Date	2-29-12	Sec.	16	Twp.	6	Range	22	County	Grant	State	KS	On Location		Finish	7:00pm
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Lease	Teelker	Well No.	4	Location	Puckee 2 1/2 mi SW 1902 2 1/2 R2S 1/2 W5 Site
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Contractor	Kyle #1	Owner	
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Type Job	Surface	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.	
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Hole Size	12 1/4	T.D.	236
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Csg.	8 1/8	Depth	236
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Tbg. Size		Depth	
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Tool		Depth	
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Cement Left in Csg.	LS	Shoe Joint	
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Meas Line		Displace	1486
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EQUIPMENT			
Pumptrk	No.	Cementer	Common
		Helper	150
Bulktrk	No.	Driver	Poz. Mix
		Driver	
Bulktrk	No.	Driver	Gel.
		Driver	3

JOB SERVICES & REMARKS			
Remarks:	Calcium 5		
Rat Hole	Hulls		
Mouse Hole	Salt		
Centralizers	Flowseal		
Baskets	Kol-Seal		
D/V or Port Collar	Mud CLR 48		
	CFL-117 or CD110 CAF 38		
	Sand		
	Handling 158		
	Mileage		

FLOAT EQUIPMENT			
	Guide Shoe		
	Centralizer		
	Baskets		
	AFU Inserts		
	Float Shoe		
	Latch Down		

Pumptrk Charge	Surface
Mileage	27

Signature	Wally Budig	Tax	
		Discount	
		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
Pool:
State: KANSAS

API: 15-165-23811-0000
Field: NANA NORTHWEST
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	TEEL #4				P&A				FOR P&A				H				JASON OIL								
	IMPERIAL OIL OF KS		IMPERIAL OIL OF KS		IMPERIAL OIL OF KS		IMPERIAL OIL OF KS		IMPERIAL OIL OF KS		IMPERIAL OIL OF KS		IMPERIAL OIL OF KS		IMPERIAL OIL OF KS		IMPERIAL OIL OF KS								
	GOFF #5		GOFF #5		GOFF #5		GOFF #5		GOFF #5		GOFF #5		GOFF #5		GOFF #5		GOFF #5								
	NE SE NE 5-8-24		NE SE NE 5-8-24		NE SE NE 5-8-24		NE SE NE 5-8-24		NE SE NE 5-8-24		NE SE NE 5-8-24		NE SE NE 5-8-24		NE SE NE 5-8-24		NE SE NE 5-8-24								
	KB	2374	GL	2369	KB	2391	KB	2391	KB	2391	KB	2391	KB	2373	KB	2359	KB	2359							
	LOG TOPS		3-SAMPLE TOPS		CARD/SMP/TOPS		LOG CORR		SMP/L CORR		CARD/SMP/TOPS		LOG CORR		SMP/L CORR		DATA SOURCE		LOG CORR		SMP/L CORR				
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM			
AMHYDRITE TOP	2028	346	2027	347	2042	349	-	5	2	2010	353	-	7	6	2022	351	-	5	4	2022	356	-	10	11	
PAY	2059	315	2054	320											2054	304	-	11	16						
SARNO																									
TORRES	3388	-1014	3388	-1014											3383	-1025	-	11	11						
OSRAD																									
RESERVE SHALE	3595	-1221	3594	-1220	3612	-1221	-	0	1	3582	-1229	-	2	1	3612	-1239	-	18	19	3587	-1229	-	8	0	
TORONTO	3617	-1243	3620	-1246	3634	-1243	-	0	3	3605	-1242	-	1	4	3652	-1259	-	16	13	3609	-1251	-	8	5	
DOUGLAS																									
BROWN LIME																									
LTC	3632	-1256	3630	-1256	3643	-1252	-	6	4	3617	-1254	-	4	2	3648	-1275	-	17	19	3622	-1264	-	6	8	
BVC	3826	-1432	3834	-1460	3854	-1463	-	11	3											3827	-1469	-	17	9	
CONGOMERATE/QUI																									
MISSISSIPPIAN																									
ARBUCKLE																									
STP			3870	-1496																					
STD	3868	-1494													3845	-1482	-	14	24	3870	-1512	-	10	10	
																					3871	-1513	-	19	19

DST #1 LKC "D,E"



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Jason Oil CO.

5-8-24, Graham, Ks

PO Box 701
 Russell Ks 67665

teel #4

ATTN: Jeff Lawler

Job Ticket: 46032

DST#: 1

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

Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2374.00 ft (KB)
 2369.00 ft (CF)
 KB to GRACE: 5.00 ft

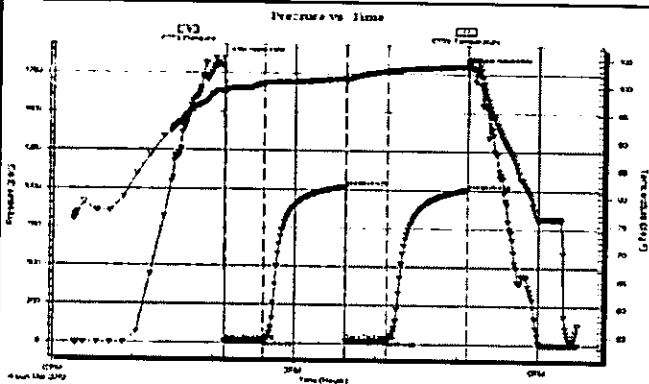
Serial #: 6753

Outside

Press @ Run Depth: 21.24 psig @ 3670.00 ft (KB)
 Start Date: 2012 03 04
 Start Time: 12:15:56
 End Date: 2012 03 04
 End Time: 18:29:56

Capacity: 8000.00 psig
 Last Calib.: 2012 03 04
 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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1844.07	99.13	Initial Hydro-static
1	12.59	98.66	Open To Flow (1)
30	14.13	100.42	Shut-in(1)
90	1015.37	101.41	End Shut-in(1)
91	20.00	100.83	Open To Flow (2)
121	21.24	102.74	Shut-in(2)
180	999.35	103.76	End Shut-in(2)
183	1789.62	104.96	Final Hydro-static

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 (Mcft/d)

Trilobite Testing, Inc

Ref. No: 46032

Printed: 2012.03.04 @ 18:42:36

DST #2 LKC "F,G"



DRILL STEM TEST REPORT

Jason Oil CO.

5-8-24, Graham, Ks

PO Box 701
Russell Ks 67665

well #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)

Total Depth: 3708.00 ft (KB) (TVD)

Reference Elevations: 2374.00 ft (KB)

Hole Diameter: 7.88 inches-Hole Condition: Fair

2369.00 ft (CF)

KB to GRCF: 5.00 ft

Serial #: 6753

Outside

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

Start Date: 2012.03.04

End Date

2012.03.05

Capacity: 8000.00 psig

Start Time: 23:35:55

End Time

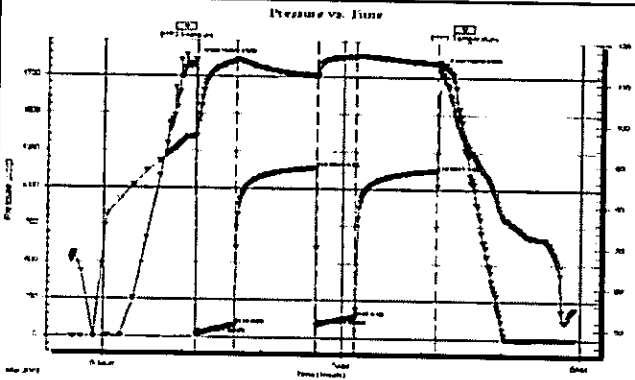
05:55:19

Last Calib.: 2012.03.05

Time On Btm: 2012.03.05 @ 01:09:20

Time Off Btm: 2012.03.05 @ 04:14:20

TEST COMMENT: IF-BOB in 16min
IS- No blow
FF-BOB in 24min
FSH- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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

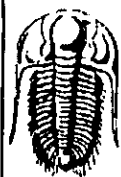
Choke (inches)	Pressure (psig)	Gas Rate (Mcft/d)

Trilobite Testing, Inc

Ref. No: 46033

Printed: 2012.03.05 @ 06:21:30

DST #3 LKC "J,K,L"



TRIBOLITE TESTING, INC

DRILL STEM TEST REPORT

Jason Oil CO.

5-8-24, Graham, Ks

PO Box 701
Russell Ks 67665

well #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

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No. 59

Interval: 3785.00 ft (KB) To 3834.00 ft (KB) (TVD)

Total Depth: 3834.00 ft (KB) (TVD)

Hole Diameter: 7.68 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: 311.02 psig @ 3786.00 ft (KB)

Start Date: 2012.03.05

End Date:

2012.03.06

Capacity: 8000.00 psig

Last Calib.: 2012.03.06

Start Time: 19:20:38

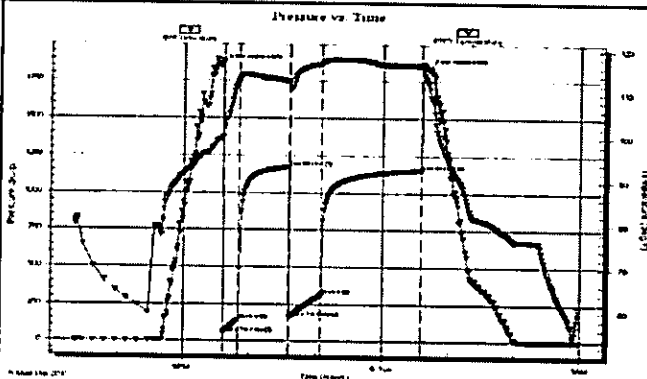
End Time:

02:58:08

Time On Btm: 2012.03.06 @ 21:33:38

Time Off Btm: 2012.03.06 @ 00:40:38

TEST COMMENT: IF-BOB in 2min
IS-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%W 55%M	0.84
60.00	GMOO 20%G 65%O 15%M	0.84
590.00	GO 30%G 70%O	8.28
0.00	1540ft GIP	0.00

* Recovery from tribolite tests

Gas Rates

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

Tribolite Testing, Inc

Ref. No: 46034

Printed: 2012.03.06 @ 03:13:30

ROCK TYPES

Chert	shale, grn	shale, red	Arg/Shale
Lmst fw<7	shale, gry	Shool	
Lmst fw7>	Carbon Sh	Ss	

ACCESSORIES

FOSSIL
◇ Oolite

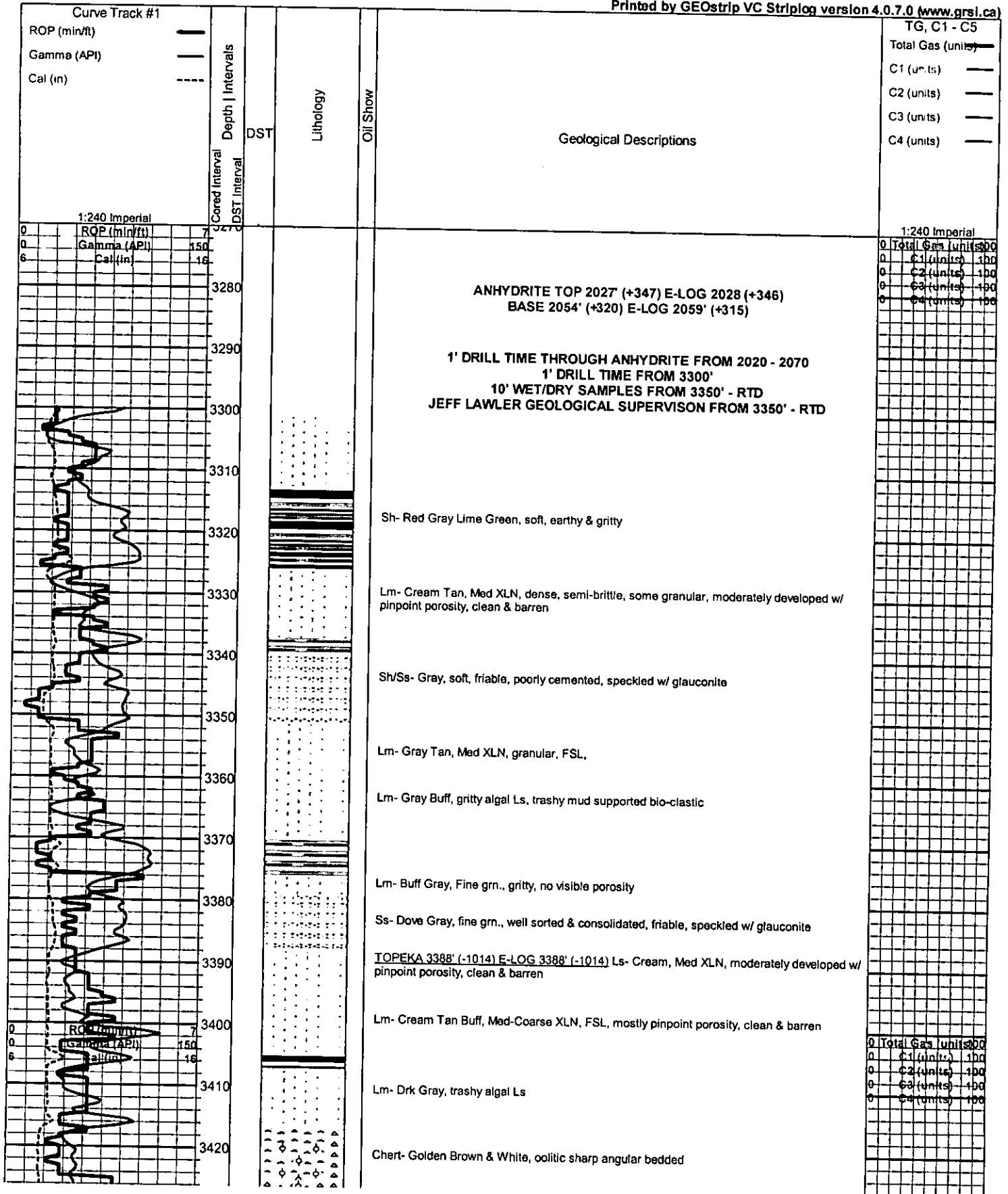
STRINGER
-- Chert
— Dolomite

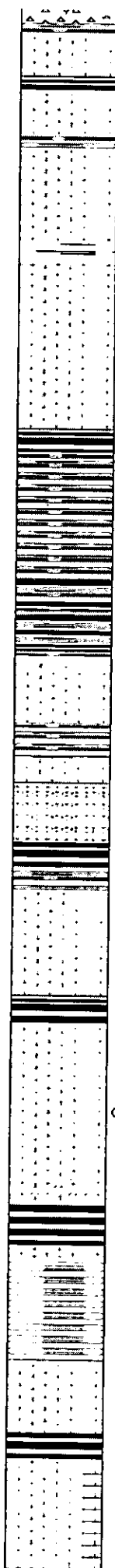
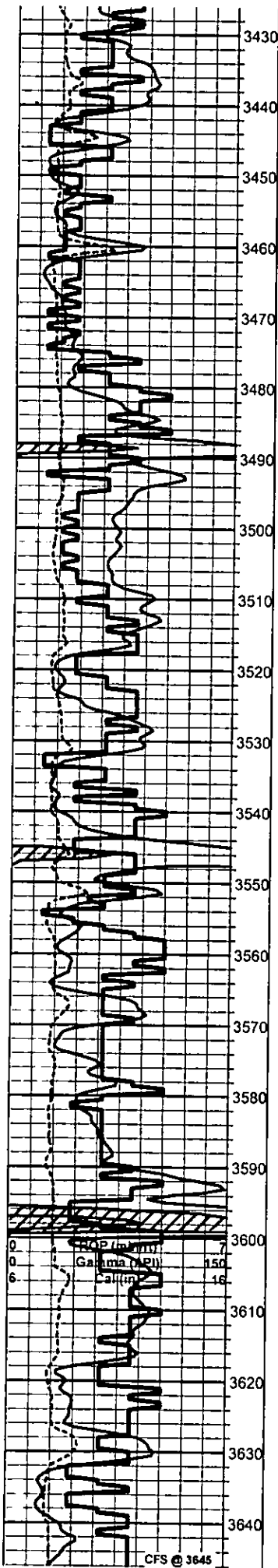
— red shale

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, slightly 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

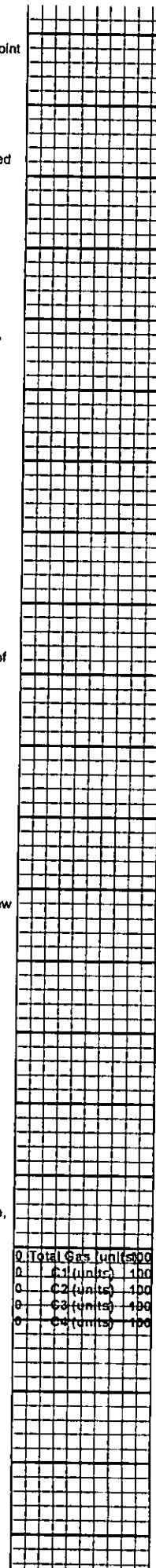
HEEBER 3594' (-1220) E-LOG 3595' (-1221) Sh- Black Gray Brown Red Lime Green, dense, fissile, carbonaceous, soft & earthy, lime green wash

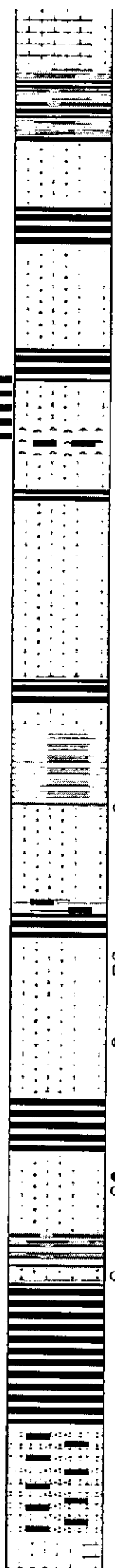
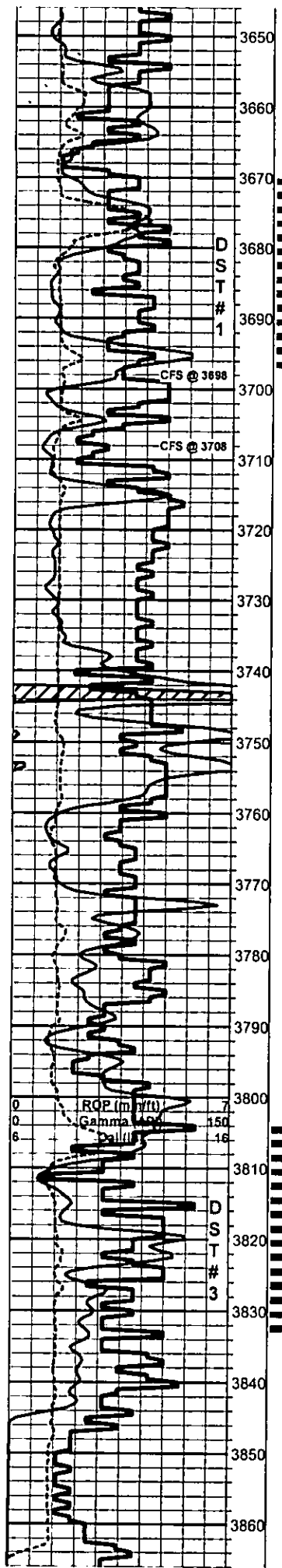
Sh- Lt Brown Lime Green wash

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





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 gm., dense, slightly chalky algal Ls, no visible porosity

Lm- Cream Tan Lt Brown, Fine gm., 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

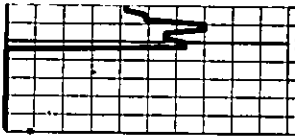
Lm- Lt Brown Cream, F-Med XLN, mostly dense, well cemented w/ limited porosity, few chips of well developed, sl FSL, good pinpoint porosity w/ DRK STN, FO UPON CRUSH, NO ODR

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

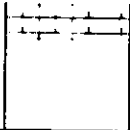
Sh/Ss- A/A, w/ red sandy shales and shaley Ss, v/ grn., well sorted, consolidated, loosely cemented

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

SHORT TRIP SLOPE 1 dgr.	
DST #1 3689-3698	
0	Total Gas (units) 500
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



sh. cream col. fine gr. clay, med. con. med. capped med. low conc. con.
brittle XLN w/ limited visible porosity, clean & barren

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

