

**OPERATOR**

Company: TRANS PACIFIC OIL CORPORATION  
 Address: 100 S. MAIN  
 SUITE 200  
 WICHITA, KS 67202  
 Contact Geologist: BETH A. ISERN  
 Contact Phone Nbr: (316) 262-3596  
 Well Name: VERMILION #2  
 Location: NE SW NW NE Sec. 6 - 17S - 24W API: 15-135-25611-00-00  
 Pool: Field: VERMILION  
 State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: VERMILION #2  
 Surface Location: NE SW NW NE Sec. 6 - 17S - 24W  
 Bottom Location:  
 API: 15-135-25611-00-00  
 License Number: 9408  
 Spud Date: 6/17/2013 Time: 3:30 PM  
 Region: NESS COUNTY  
 Drilling Completed: 6/23/2013 Time: 7:47 PM  
 Surface Coordinates: 865' FNL & 2060' FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2492.00ft  
 K.B. Elevation: 2501.00ft  
 Logged Interval: 3400.00ft To: 4477.00ft  
 Total Depth: 4476.00ft  
 Formation: MISSISSIPPIAN DOLOMITE  
 Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -100.0178940 Latitude: 38.6067558  
 N/S Co-ord: 865' FNL  
 E/W Co-ord: 2060' FEL

**LOGGED BY**

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

**CONTRACTOR**

Contractor: DUKE DRILLING CO., INC  
 Rig #: 4  
 Rig Type: MUD ROTARY  
 Spud Date: 6/17/2013 Time: 3:30 PM  
 TD Date: 6/23/2013 Time: 7:47 PM  
 Rig Release: 6/24/2013 Time: 8:00 AM

**ELEVATIONS**

K.B. Elevation: 2501.00ft Ground Elevation: 2492.00ft  
 K.B. to Ground: 9.00ft

**NOTES**

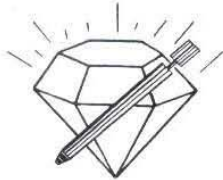
DUE TO STRUCTURAL POSITION, ECONOMICAL DRILL STEM TEST RECOVERY, AND LOG ANALYSIS DECISION WAS MADE TO RUN 4 1/2" PRODUCTION CASING AND COMPLETE OPEN HOLE IN THE MISSISSIPPIAN DOLOMITE.

RESPECTFULLY SUBMITTED,  
JEFF LAWLER

**WELL COMPARISON SHEET**

FORMATION	●										P&A 10-73				●				■			
	PALOMINO PETROELUM, INC.										OHIO OIL COMPANY				PALOMINO PETROELUM, INC.				WESTAR RESOURCES			
	VERMILION #1										VERMILION #1				JARVIS HEIRS #1				CURRY #2			
	SW NE NE 6-17-24										SW NE 6-17-24				SW NE NW NW 6-17-24				NW SW SE 31-16-24			
VERMILION #2		2501		KB		2521		KB		2492		KB		2488		KB		2538				
LOG TOPS		SAMPLE TOPS		LOGS		LOG	SMPL.	COMP. CARD	LOG	SMPL.	GEO-REPORT	LOG	SMPL.	COMP. CARD	LOG	SMPL.						
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.			
ANHYDRITE TOP	1855	646	1850	651	1873	648	- 2 + 3					1830	658	- 12 - 7		1894	644	+ 2 + 7				
BASE	1879	622	1882	619	1903	618	+ 4 + 1									1924	614	+ 8 + 5				
TOPEKA	3569	-1068	3567	-1066	3595	-1074	+ 6 + 8															
HEEBNER SHALE	3843	-1342	3843	-1342	3867	-1346	+ 4 + 4	3837	-1345	+ 3 + 3		3831	-1343	+ 1 + 1		3898	-1360	+ 18 + 18				
TORONTO																						
LANSING	3884	-1383	3884	-1383	3908	-1387	+ 4 + 4	3887	-1395	+ 12 + 12		3871	-1383	+ 0 + 0		3934	-1396	+ 13 + 13				
BKC	4178	-1677	4179	-1678	4197	-1676	- 1 - 2					4159	-1671	- 6 - 7		4234	-1696	+ 19 + 18				
MARMATON					4274	-1753		4242	-1750			4246	-1758									
PAWNEE	4302	-1801	4300	-1799	4320	-1799	- 2 + 0					4294	-1806	+ 5 + 7		4358	-1820	+ 19 + 21				
FT. SCOTT	4378	-1877	4377	-1876	4396	-1875	- 2 - 1	4386	-1894	+ 17 + 18		4367	-1879	+ 2 + 3		4437	-1899	+ 22 + 23				
CHEROKEE SHALE	4403	-1902	4403	-1902	4420	-1899	- 3 - 3	4444	-1952	+ 50 + 50		4394	-1906	+ 4 + 4								
MISSISSIPPIAN	4470	-1969	4469	-1968	4483	-1962	- 7 - 6	4504	-2012	+ 43 + 44		4467	-1979	+ 10 + 11		4521	-1983	+ 14 + 15				
RTD			4476	-1975	4600	-2079		4604	-2112		+ 137	4525	-2037		+ 62	4540	-2002		+ 27			
LTD	4477	-1976			4597	-2076	+ 100															

**DST #1 FT. SCOTT 4335' - 4405'**



**DIAMOND TESTING**  
P.O. Box 157  
HOISINGTON, KANSAS 67544  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: VERMILION2DST1

TIME ON: 01:51  
TIME OFF: 11:07

Company TRANS PACIFIC OIL CORPORATION Lease & Well No. VERMILION #2  
Contractor DUKE DRILLING CO., INC. RIG #4 Charge to TRANS PACIFIC OIL CORPORATION  
Elevation 2501 KB Formation FT. SCOTT Effective Pay \_\_\_\_\_ Ft. Ticket No. T223  
Date 6-23-13 Sec. 6 Twp. 17 S Range 24 W County NESS State KANSAS  
Test Approved By JEFF LAWLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 4335 ft. to 4405 ft. Total Depth 4405 ft.  
Packer Depth 4330 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4335 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4323 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 4402 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.5 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4,200 P.P.M. Drill Pipe Length 4309 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 38 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: WEAK 1/4 INCH BLOW, BUILDING, REACHING BOB 11 MIN. (NO BB)  
2nd Open: GOOD 2 INCH BLOW, BUILDING, REACHING BOB 11 MIN. (NO BB)

Recovered 810 ft. of GAS IN PIPE  
Recovered 120 ft. of G,HOCM, 6% GAS, 38% OIL, 56% MUD  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Price Job \_\_\_\_\_  
Other Charges \_\_\_\_\_

Recovered _____ ft. of _____	Other Charges _____
Remarks: _____	Insurance _____
TOOL SAMPLE: 42% OIL, 58% MUD	Total _____

Time Set Packer(s) <u>4:48 AM</u>	<u>A.M.</u>	Time Started Off Bottom <u>9:03 AM</u>	<u>A.M.</u>	Maximum Temperature <u>122 deg.</u>
Initial Hydrostatic Pressure..... (A) <u>2145 P.S.I.</u>				
Initial Flow Period..... Minutes <u>30</u>	(B) <u>12 P.S.I. to (C) <u>28 P.S.I.</u></u>			
Initial Closed In Period..... Minutes <u>75</u>	(D) <u>298 P.S.I.</u>			
Final Flow Period..... Minutes <u>60</u>	(E) <u>29 P.S.I. to (F) <u>57 P.S.I.</u></u>			
Final Closed In Period..... Minutes <u>90</u>	(G) <u>291 P.S.I.</u>			
Final Hydrostatic Pressure..... (H) <u>2143 P.S.I.</u>				

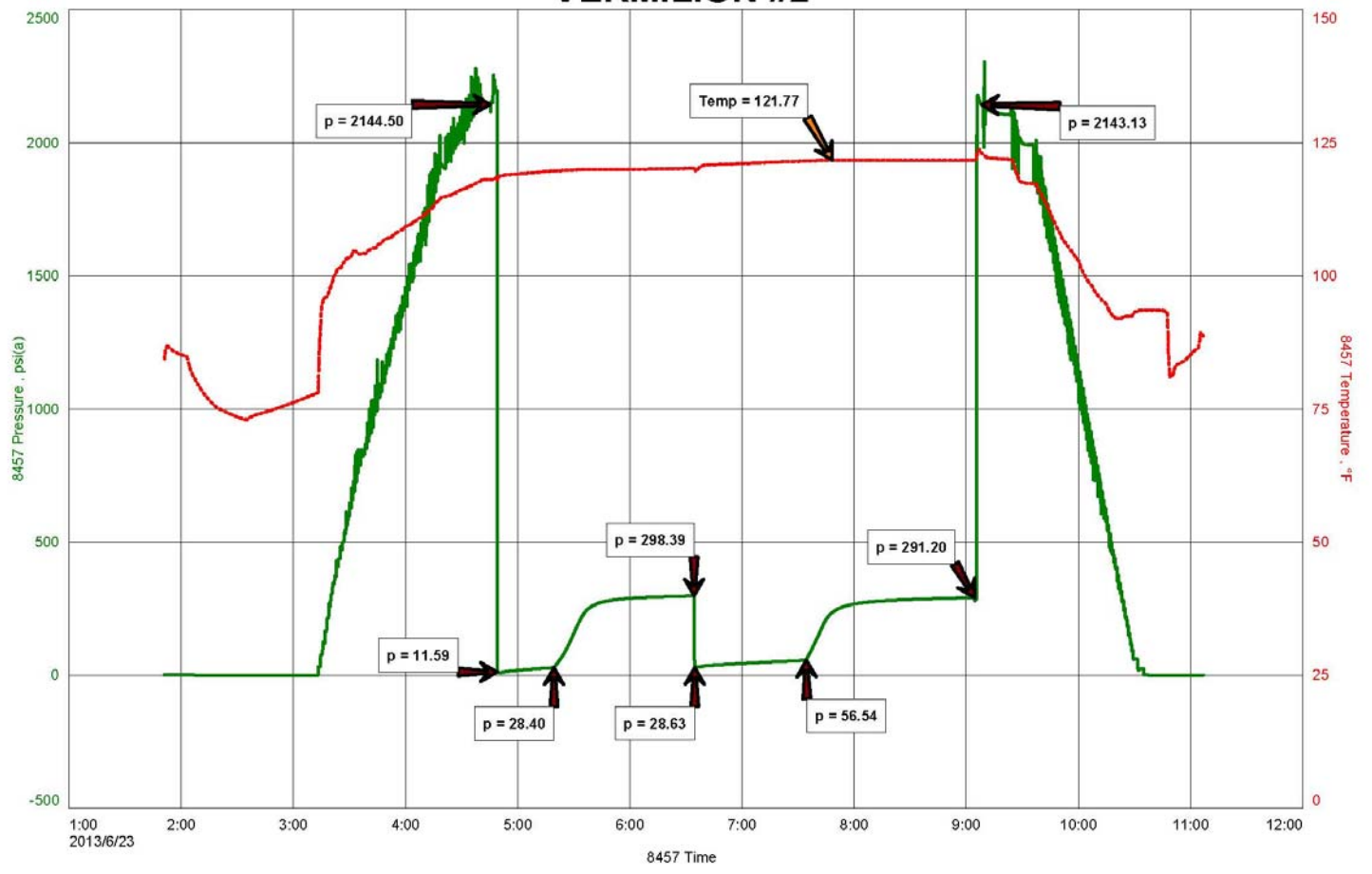
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

### DST #1 FT. SCOTT CHART

TRANS PACIFIC OIL CORPORATION  
 DST #1, FT. SCOTT, 4335-4405  
 Start Test Date: 2013/06/23  
 Final Test Date: 2013/06/23

VERMILION #2  
 Formation: DST #1, FT. SCOTT, 4335-4405  
 Pool: WILDCAT  
 Job Number: T223

### VERMILION #2



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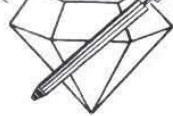


### DST #2 MISSISSIPPIAN 4418' - 4476'

DIAMOND TESTING  
 P.O. Box 157

TIME ON: 23:45 6-23-13





Company TRANS PACIFIC OIL CORPORATION Lease & Well No. VERMILION #2  
 Contractor DUKE DRILLING CO., INC. RIG #4 Charge to TRANS PACIFIC OIL CORPORATION  
 Elevation 2501 KB Formation MISSISSIPPIAN Effective Pay \_\_\_\_\_ Ft. Ticket No. T224  
 Date 6-24-13 Sec. 6 Twp. \_\_\_\_\_ 17 S Range \_\_\_\_\_ 24 W County NESS State KANSAS  
 Test Approved By JEFF LAWLER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4418 ft. to 4476 ft. Total Depth 4476 ft.  
 Packer Depth 4413 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 4418 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
 Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 4,500 P.P.M. Drill Pipe Length 4392 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length 26 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 27 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DP IN ANCHOR Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING TO 7 INCHES. (NO BB)  
 2nd Open: VERY WEAK SURFACE BLOW, BUILDING, REACHING BOB 50 MIN. (NO BB)

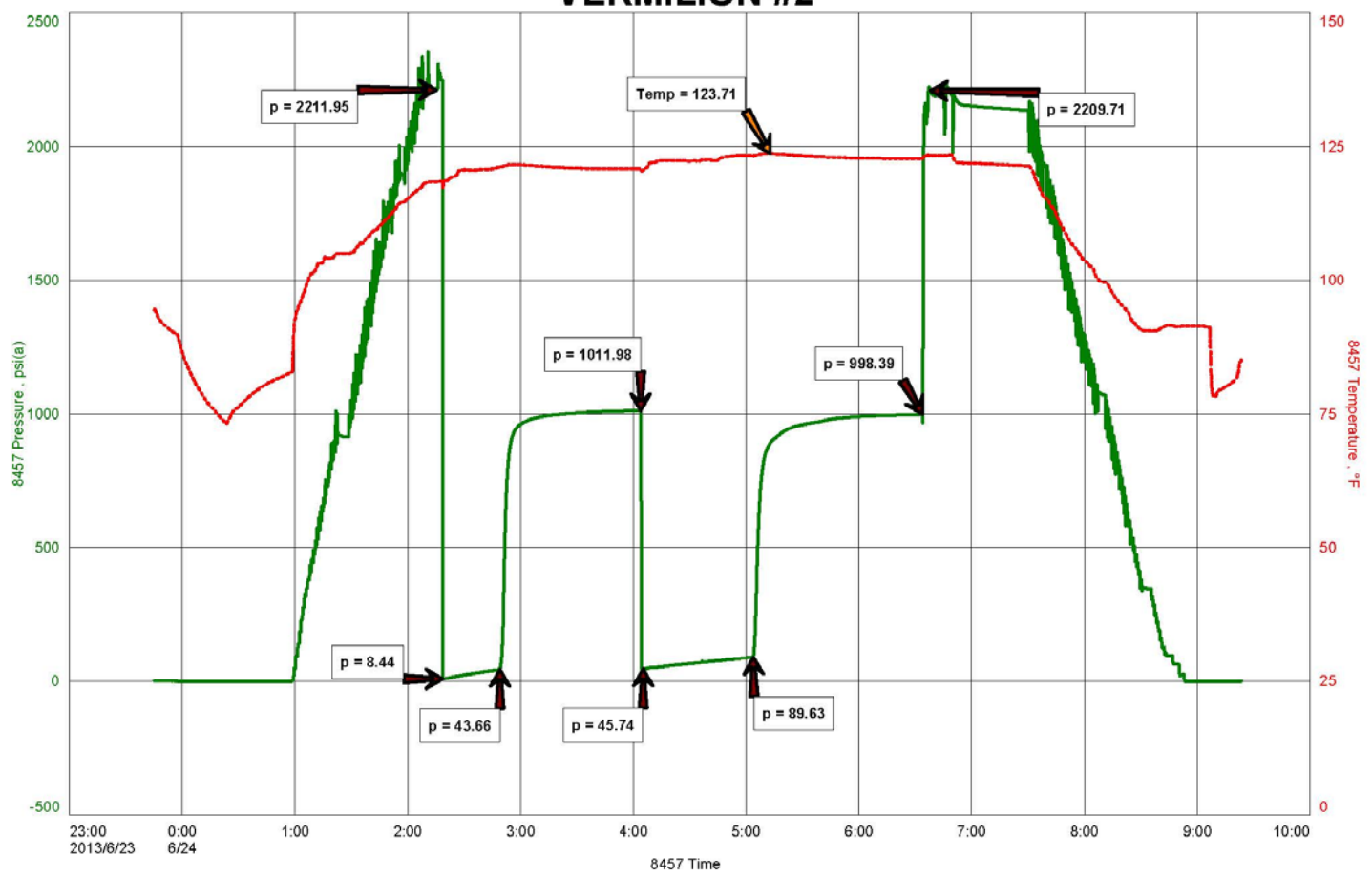
Recovered 105 ft. of GAS IN PIPE  
 Recovered 115 ft. of GO, 5% GAS, 95% OIL, GRAVITY: 37  
 Recovered 90 ft. of G,OCM, 5% GAS, 34% OIL, 61% MUD  
 Recovered 205 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
<b>TOOL SAMPLE: 3% GAS, 23% OIL, 74% MUD</b>	Total

Time Set Packer(s) 2:18 AM A.M. P.M. Time Started Off Bottom 6:33 AM A.M. P.M. Maximum Temperature 124 deg.  
 Initial Hydrostatic Pressure..... (A) 2212 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 44 P.S.I.  
 Initial Closed In Period..... Minutes 75 (D) 1012 P.S.I.  
 Final Flow Period..... Minutes 60 (E) 46 P.S.I. to (F) 90 P.S.I.  
 Final Closed In Period..... Minutes 90 (G) 998 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2210 P.S.I.

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**DST #2 MISSISSIPPIAN CHART**



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### ROCK TYPES

- Cht
- Congl
- Chtcong1
- Dolprim
- Lmst fw7>
- shale, grn
- shale, gry
- Carbon Sh
- Shcol

### ACCESSORIES

**FOSSIL**  
 Oomoldic

### OTHER SYMBOLS

**DST**  
 DST Int  
 DST alt  
 Core

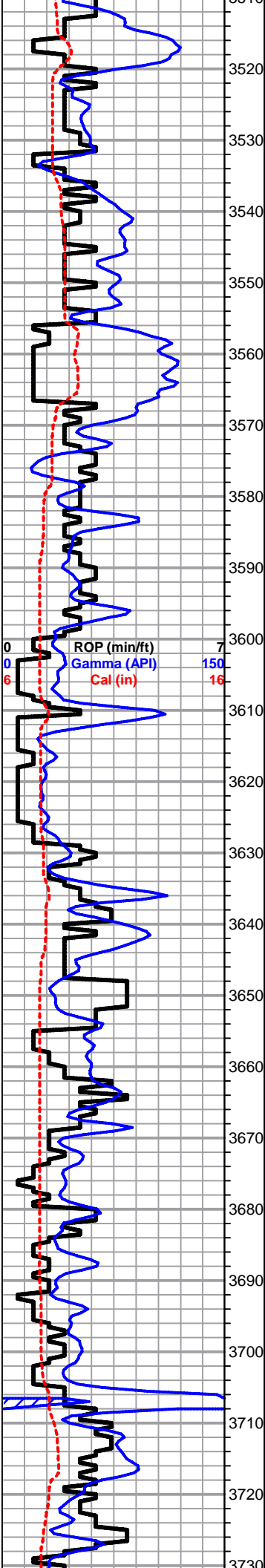
Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1	Depth   Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5
ROP (min/ft) — Gamma (API) — Cal (in) - - -	Cored Interval DST Interval					Total Gas (units) C1 (units) C2 (units) C3 (units) C4 (units)
1:240 Imperial 0 ROP (min/ft) 0 Gamma (API) 6 Cal (in)	7 150 16					1:240 Imperial Total Gas (units) C1 (units) C2 (units) C3 (units) C4 (units)
<p><b>1' DRILL TIME THROUGH ANHYDRITE FROM 1800' - 1950'</b>  <b>4' DRILL TIME FROM 3500' - 3510'</b></p>						

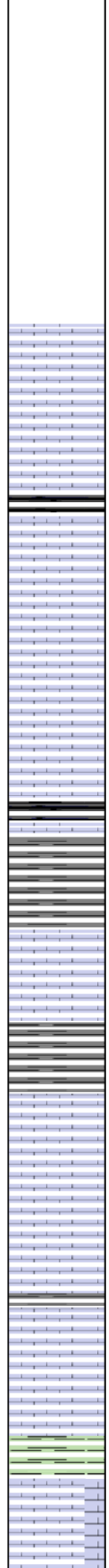
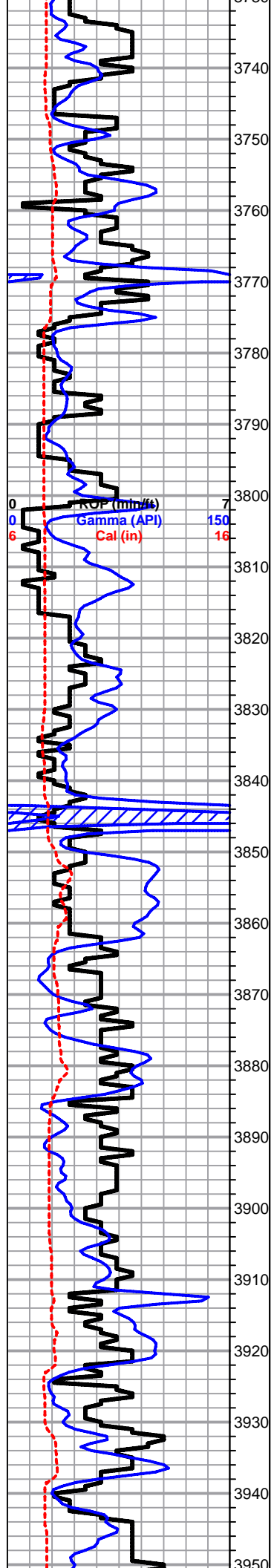
1' DRILL TIME FROM 3500' - RTD  
10' WET/DRY SAMPLES FROM 3800' - RTD  
GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 3800' - RTD

8 5/8" SURFACE PIPE SET @ 223'

ANHYDRITE TOP 1850' (+651) E-LOG 1855' (+646)  
BASE 1882' (+619) E-LOG 1879' (+622)



Total Gas (units) 0  
C1 (units) 0  
C2 (units) 0  
C3 (units) 0  
C4 (units) 0



Lm- Cream Tan, Crypto-FXLN Fn Grn, mix of fsl, some sl oolitic, mod. dev. w/ sctrd XLN porosity, well cemented & mud supported matrix, loosely cemented, sl chalky in part, all clean & barren

Lm- Buf Tan, FXLN, fsl & oolitic, gritty & grainy, loosely cemented, sctrd XLN porosity, sctrd mottling, sl chalky in part, barren

Lm- Tan, FXLN, dense, well cemented, sub-sucrosic sl dev. dolomitic ls w/ mostly constant vry fn ppt & XLN porosity, barren, few pcs w/ sctrd secondary recrystallization porosity

Lm- Cream Off White, Vf-Fn Grn, dense, loosely cemented, soft & crumbley, mud supported matrix, sctrd to heavily mottled, poor intergranular vis. porosity

Lm- A/A grading into vry soft, much soft white chalk, heavily mottled

**HEEBNER SHALE 3843' (-1342) E-LOG 3843' (-1342)** Sh- Black Maroon Brick Red, fissile, slaty, soft, carbonaceous, gritty & earthy, vry soft

Sh- Lt Gray Lm Green, soft, some silty & calcareous, some sl waxy & dense

Lm- Cream Off White, Vf-Fn Grn, soft, loosely cemented & crumbley, sl fsl, vry clean, barren, poor intergranular vis. porosity

Sh- Maroon Drk & Lt Gray Lm Green, gritty & earthy, some sl sandy, some lm grn wash

**LKC 3884' (-1383) E-LOG 3884' (-1383)** Lm- Ivory Off White, VF-FXLN Vf Grn, mix of lithographic cherty ls & fsl fresh bedded chert, tight w/o vis. porosity, fsl FXLN, poorly dev. w/ micro XLN porosity, & loosely cemented & crumbley mud supported matrix, vry clean & barren,

Lm/Chert- A/A w/ more pcs of vitreous smokey white & smokey tan fsl fresh bedded chert, w/o vis. porosity

Lm- Tan, VF-FXLN, fsl, gritty sl dolomitic ls, loosely cemented & crumbley, poor vis. porosity, barren

Sh- Lt Gray Maroon Lm Green, gritty & earthy, some sl sandy, soft calcareous lm grn

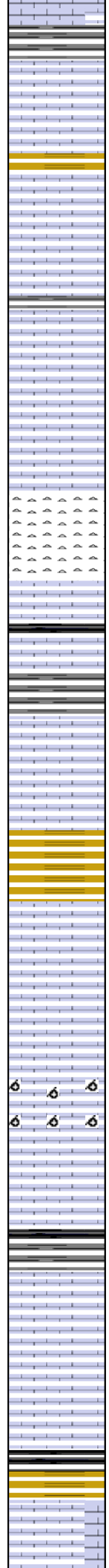
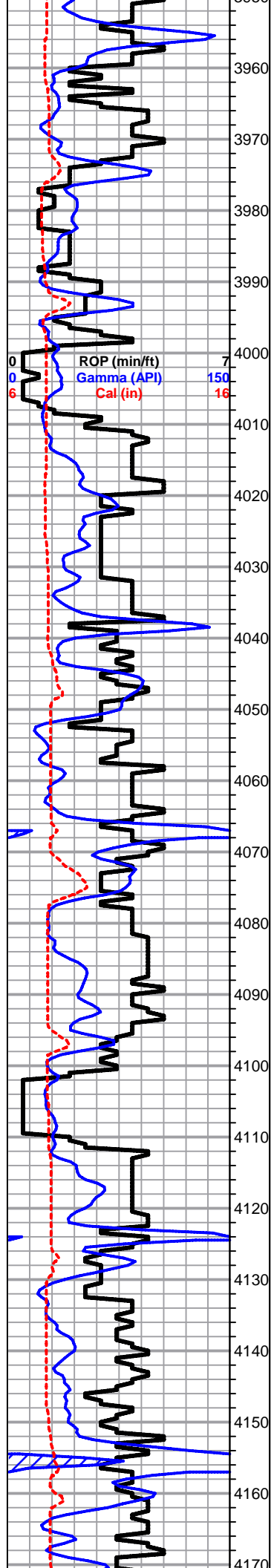
Lm- Cream Tan, FXLN, mix of gritty sl dolomitic ls, poorly dev. w/ sctrd micro XLN & XLN porosity, sl fsl, vry well cemented & fsl, sl dev., loosely cemented, sctrd inter fsl vry fn ppt & sctrd XLN porosity, barren

Sh- Lm Green Maroon, sl waxy, gritty & earthy

Lm- Ivory Cream, Crypto-FXLN, mostly tight mix, most well cemented, porosity from absent to XLN, some w/ vry dense fenestral micro XLN porosity, vry clean, barren

Lm- A/A w/ tan VF-FXLN dense, brittle, sl cherty ls w/ sctrd recrystallization vis. tight

Total Gas (units) 0  
C1 (units) 0  
C2 (units) 0  
C3 (units) 0  
C4 (units) 0



Lm- VA w tan, VF-XLN, dense, brittle, sl cherty ls w/ sctrd recrystallization veins, tight

Sh- Drk Gray, waxy, dense & blocky slivers

Lm- Ivory, VF-FXLN, dense, well cemented, poorly dev., fsl & oolitic, sctrd micro XLN & XLN porosity, barren

Sh- Brown Maroon White, gritty & earthy, much soft white chalk

Lm- Ivory Cream, VF-FXLN, oolitic mix, some well cemented, tight w/ min. vis. porosity, some massive w/ lithofied mud matrix, w/o consistant vry fn ppt interoolitic porosity, & pcs of fsl fresh bedded chert, all barren & vry clean

Lm- Tan, VF-FXLN, dense, well cemented, sl dev. oolitic/oomoldic, sctrd partial skeletal dissolution, min. to poor intervugular connectivity, barren

Chert- Smokey Gray, fresh bedded sharp angular chert

Sh- Black Lt Gray, fissile, soft, carbonaceous, silty & calcareous

Lm- Cream Tan, Fn Grn, soft, chalky in part, some FXLN, sctrd to heavy mottling, sctrd XLN porosity

Sh- Gray Lm Green, soft, some gummy argillaceous clumps & lm grn wash

Lm- Ivory Cream, Fn Grn, dense, loosely cemented & crumbly, poorly dev. w/ minimal vis. intergranular vis., vry clean & barren

Sh- Lt Gray Brown Lm Green, argillaceous clumps, silty, soft, sl sandy, gritty & earthy

Lm- Ivory Cream, VF-FXLN, dense, mostly well cemented, few pcs of crypto XLN w/o vis. porosity, poorly dev. w/ sctrd micro XLN & XLN porosity, few pcs of fsl fresh bedded chert

Lm- Ivory, VF-FXLN, oolitic/oomoldic, partial skeletal dissolution w/ sctrd vugs, poor to sctrd intervugular connectivity, mostly well cemented, barren

Lm- Ivory Cream, Fn Grn FXLN, grading into densely packed small oolites, minimal vis. porosity, some soft white chalk

Sh- Black Gray Lm Green, fissile, carbonaceous, gritty & silty, soft, sl waxy

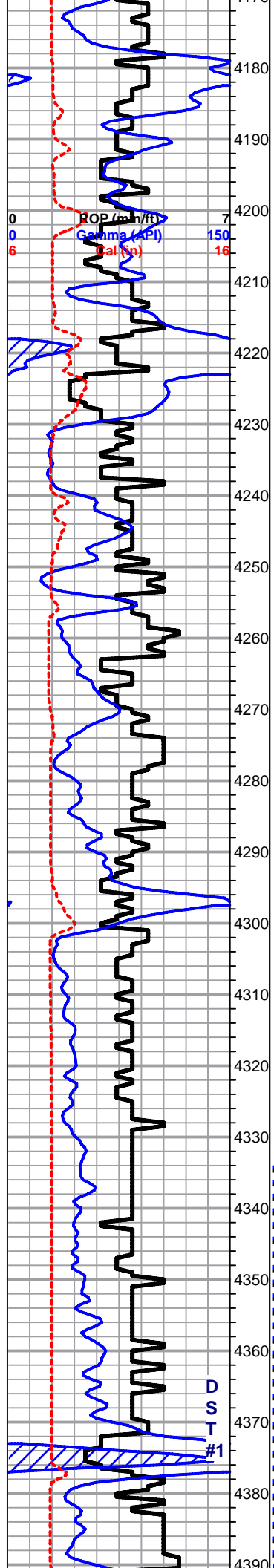
Lm- Ivory Tan, VF-FXLN, dense, mostly tight mix, sctrd micro XLN & XLN, few pcs w/ sctrd XLN secondary recrystallization porosity, vry clean, barren, few pcs lithographic w/o vis. porosity

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

Lm- Cream Off White, F-Med Grn, dense, loosely cemented, sl chalky in part, poor intergranular

Total Gas (units)  
C1 (units)  
C2 (units)  
C3 (units)  
C4 (units)





Lm- Cream Off White, F med Grn, dense, loosely cemented, sl chalky in part, poor intergranular vis. porosity, barren

**BKC 4179' (-1678) E-LOG 4178' (-1677)** Sh- Gray Maroon, vry silty, calcareous, gritty & earthy

Lm- Drk Gray Tan, FXLN, dense, high-energy bioclastic w/ fsl fragments, sctrd XLN porosity, sl trashy

Sh- Drk Gray Lm Green, dense, sl waxy, sl silty, gummy wash

Sh- A/A w/ interbedded VF-FXLN, dense, tight mix, crypto XLN w/o vis. porosity, sl cherty ls lenses

Conglomerate- Maroon tint, shaley ls, loosely to well cemented, sl unconsolidated, few massive, sctrd XLN porosity, few chips of maroon algal ls, gritty & earthy maroon sh

Conglomerate- A/A, grading into sl cherty cong. w/ more maroon & brick red shale

Lm- Cream Buff, FXLN Vf Grn, mix of dense algal ls w/o vis. porosity, sl chalky in part, FXLN, dense, well cemented, poorly dev. w/ sctrd micro XLN porosity, rare sctrd secondary recrystallization porosity veins, tight, barren

**PAWNEE 4300' (-1799) E-LOG 4302' (-1801)** Lm- Buff Cream, Fn Grn, dense, loosely cemented, sl chalky in part, sandy & grainy, mod. dev. consistant vry fn ppt intergranular porosity, pcs of salmon, honey brown fresh bedded chert

Lm- A/A

Lm- A/A w/ soft, vry fn grn siltstone, some white wash

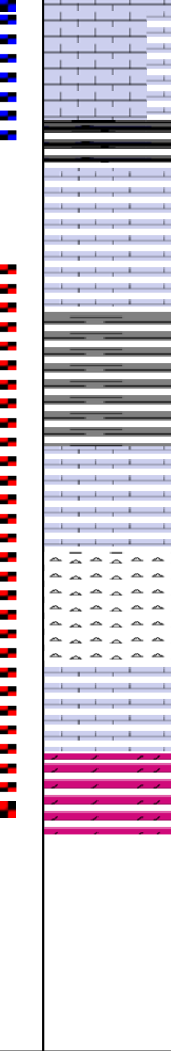
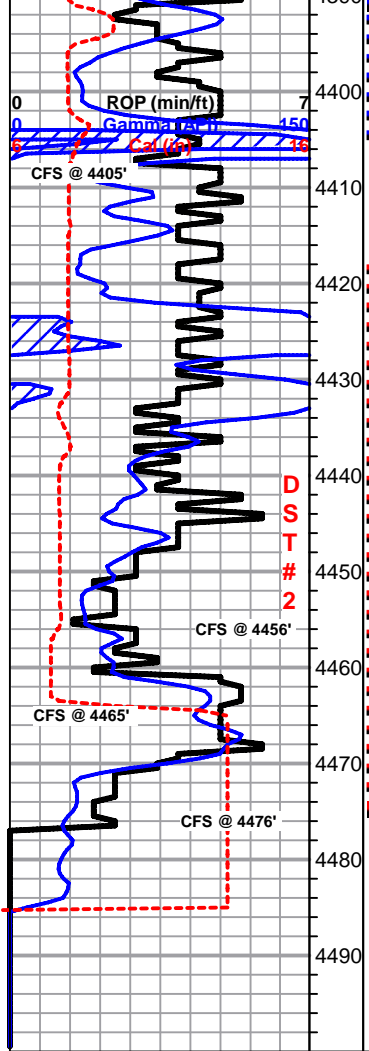
Lm- A/A, w/ more white & buff wash & sandy lime

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

**FT. SCOTT 4377' (-1876) E-LOG 4378' (-1877)** Lm- Cream Tan, FXLN, fsl, loosely to well cemented, some sl granular, sctrd XLN porosity, barren, some mud supported & sl chalky w/ poor vis. porosity

Total Gas (units) 100  
 C1 (units) 100  
 C2 (units) 100  
 C3 (units) 100  
 C4 (units) 100

SHORT TRIP SURVEY 3/4 dgr.  
 DST #1 FT SCOTT 4335' - 4405'



Lm- Cream Tan, FXLN Fn Grn, mix of sl chalky mud supported matrix w/ poor vis. porosity & sl dev. FXLN, well cemented, massive w/ XLN & rare sctrd vry fn ppt porosity, >5 PCS W/ WK SPOTTY STN, SL GSY SHN, NO SFO, FNT ODR UPON CRUSH

**CHEROKEE SHALE 4403' (-1902) E-LOG 4403' (-1902)** Sh- Black Gray, mix of fissile & carbonaceous and unconsolidated & pebbly, gummy argillaceous gray clumps and silty calcareous pcs

Lm- Ivory Cream, VF-FXLN, dense, mostly well cemented, few chalky mud supported matrix, poorly dev. w/ sctrd micro XLN & XLN porosity, vry clean

Sh- Lt & Drk Gray Lm Green Maroon, silty & some gummy, sl unconsolidated & pebbly, waxy & blocky

Lm- White Tan, mix of Vf Grn & VF-FXLN, all dense w/ minimal vis. porosity

Chert- White Salmon Tan Smokey Gray, mostly vitreous fresh bedded chert, some w/ apparent fractures W/ SCTRDRK STN, FEW W/ SL SFO, FEW GASSY BUBBLES UPON CRUSH, NO ODR,

Lm- White Tan, VF-FXLN, dense, well cemented, tight & poorly dev. w/ sctrd micro XLN porosity

**MISSISSIPPIAN 4469' (-1968) E-LOG 4470' (-1969)** Dol- Tan Cream, VF-FXLN, dense, vrt well cemented, sl dev. w/ sctrd fn ppt porosity, LT SCTRDRK BRWN STN, SL-FR SFO, FNT ODR, few w/ dense fenestral XLN porosity

**RTD 4476' (-1975) LTD 4477' (-1976) @ 19:47 6/23/2013**

Total Gas (units) 100  
 C1 (units) 100  
 C2 (units) 100  
 C3 (units) 100  
 C4 (units) 100

STRAP +4.5'  
 DST #2  
 MISSISSIPPIAN  
 4418' - 4476'

MUCH SHALE  
 CONTAMINATION