OPERATOR

Company:	CARRIE EXPLORATION AND DEVELOPMENT		
Address:	210 W 22nd ST. HAYS, KS 67601		
Contact Geologist:	RON HEROLD		
Contact Phone Nbr:	(913)961-2760		
Well Name:	HAYES C #1		
Location:	N2 N2 NW Sec. 8 - 21S - 11W	API:	15-185-23813-00-00
Pool:		Field:	KOWALSKY SOUTHWEST
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	HAYES C #1		
Surface Location:	N2 N2 NW Sec. 8 - 21S - 11W		
Bottom Location:			
API:	15-185-23813-00-00		
License Number:	6768		
Spud Date:	6/14/2013	Time:	3:30 PM
Region:	STAFFORD		
Drilling Completed:	6/20/2013	Time:	5:50 PM
Surface Coordinates:	2111' FSL & 1857' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	1798.00ft		
K.B. Elevation:	1803.00ft		
Logged Interval:	2300.00ft	To:	3521.00ft
Total Depth:	3520.00ft		
Formation:	ARBUCKLE		
Drilling Fluid Type:	FRESH WATER/CHEMICAL GEL		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-98.3744558	Latitude:	38.1502146
N/S Co-ord:	2111' FSL		
E/W Co-ord:	1857' FWL		

LOGGED BY

SOLUTIONS CONSULTING

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

CONTRACTOR

Contractor:	SOUTHWIND DRILLING, INC		
Rig #:	6		
Rig Type:	MUD ROTARY		
Spud Date:	6/14/2013	Time:	3:30 PM
TD Date:	6/20/2013	Time:	5:50 PM
Rig Release:	6/22/2013	Time:	12:00 AM

ELEVATIONS

K.B. Elevation:	1803.00ft	Ground Elevation:	1798.00ft
K.B. to Ground:	5.00ft		

NOTES

DUE TO FAVORABLE LOG ANALYSIS AND RECOVERY ON DRILL STEM TESTS DECISION WAS MADE TO RUN PRODUCTION CASING.

WELL COMPARISON SHEET

					P&A 9-90						P&A 7-2003						¤				P&A 8-71					
					DUKE & WOOD						F G HOLL						OAKMAR OIL CO.				F G HOLL					
					KASSELMAN #1						KEELER A #1-8						KASSELMAN A #4				JOHN KAASELMAN #2					
	HAYES C #1				NW NW NW 8-21-11						NW SW NW 8-21-11						NE NE NW 8-21-11				NE SE SW 5-21-11					
	KB	1803			KB	1810					KB	1806					KB	1796			KB	1800				
	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											567	1239					565	1231										
BASE											587	1219																
TARKIO LIME	2475	-672	2476	-673							2478	-672	+	0	-	1												
HOWARD	2631	-828	2631	-828							2631	-825	-	3	-	3												
TOPEKA	2724	-921	2725	-922							2725	-919	-	2	-	3												
HEEBNER SHALE	3000	-1197	3003	-1200	3003	-1193	-	4	-	7	3006	-1200	+	3	+	0	3009	-1213	+	16	+	13	3004	-1204	+	7	+	4
TORONTO	3017	-1214	3020	-1217							3024	-1218	+	4	+	1	3027	-1231	+	17	+	14						
DOUGLAS SHALE	3034	-1231	3037	-1234							3038	-1232	+	1	-	2												
BROWN LIME	3123	-1320	3125	-1322	3130	-1320	+	0	-	2	3131	-1325	+	5	+	3	3136	-1340	+	20	+	18	3130	-1330	+	10	+	8
LKC	3140	-1337	3141	-1338	3145	-1335	-	2	-	3	3151	-1345	+	8	+	7	3154	-1358	+	21	+	20	3152	-1352	+	15	+	14
BKC	3370	-1567	3370	-1567							3376	-1570	+	3	+	3							3375	-1575	+	8	+	8
CONGLOMERATE																	3400	-1604					3397	-1597				
SIMPSON SHALE											3396	-1590											3475	-1675				
SIMPSON DOLOMITE																												
SIMPSON SAND					3418	-1608																						
ARBUCKLE	3415	-1612	3413	-1610	3420	-1610	-	2	+	0	3418	-1612	+	0	+	2							3471	-1671	+	59	+	61
RTD			3520	-1717	3439	-1629			-	88	3423	-1617			-	100	3503	-1707			-	10	3485	-1685			-	32
LTD	3521	-1718									3424	-1618	-	100														

DST #1 LKC I-J 3290' - 3340'

SUPERIOR ENTERPRISES LLC TESTERS

DRILL STEM TEST REPORT

Carrie Exploration & Development

210 W. 22nd
Hays Kansas, 67601

ATTN: Jeff Law ler

8/21s/11w/Stafford

Hayes #C-1

Job Ticket: 17600 **DST#: 1**

Test Start: 2013.06.20 @ 00:05:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:21:30
Time Test Ended: 06:19:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/50/Great Bend

Interval: 3290.00 ft (KB) To 3340.00 ft (KB) (TVD)
Total Depth: 3340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

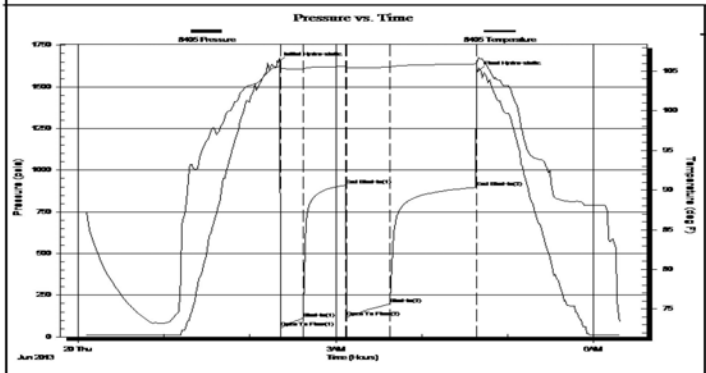
Reference Elevations: 1803.00 ft (KB)
1795.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8405 **Inside**

Press@RunDepth: 196.41 psia @ 3336.00 ft (KB)
Start Date: 2013.06.20 End Date: 2013.06.20
Start Time: 00:05:00 End Time: 06:19:00

Capacity: 5000.00 psia
Last Calib.: 2013.06.20
Time On Btm: 2013.06.20 @ 02:19:30
Time Off Btm: 2013.06.20 @ 04:39:00

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 10 minutes.
1st SHut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. Fair blow built to bottom of 5 gallon bucket in 16 1/2 minutes.
2nd SHut In/ 60 Minutes. No Blow Back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1648.25	105.50	Initial Hydro-static
2	56.28	105.37	Open To Flow (1)
18	110.70	105.28	Shut-In(1)
48	910.09	105.59	End Shut-In(1)
48	119.26	105.38	Open To Flow (2)
78	196.41	105.52	Shut-In(2)
139	896.78	105.92	End Shut-In(2)
140	1592.03	106.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
126.00	20% mud, 80% w ater, trace of oil	1.77
189.00	10% mud, 90% w ater, trace of oil.	2.65
0.00	Chloride recov. 31000 ppm	0.00
0.00	esist recov, .22 ohms at 40 degrees	0.00

Gas Rates

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

DST #2 ARBUCKLE 3369' - 3432'

DRILL STEM TEST REPORT

Carrie Exploration & Development

210 W. 22nd
Hays Kansas, 67601

ATTN: Jeff Lawler

8/21s/11w/Stafford

Hayes #C-1

Job Ticket: 18401 **DST#: 2**

Test Start: 2013.06.21 @ 18:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:19:30
Time Test Ended: 01:32:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/50/Great Bend

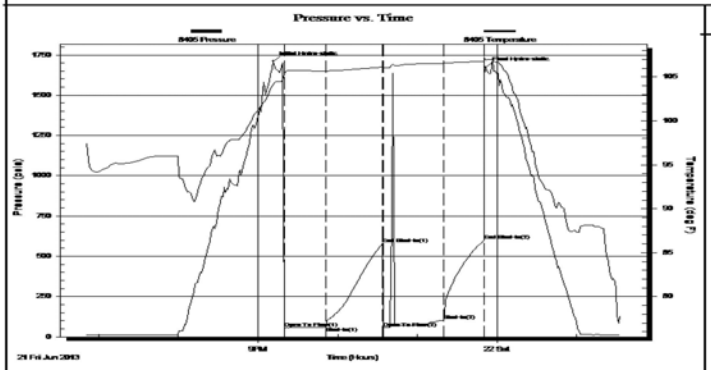
Interval: 3369.00 ft (KB) To 3432.00 ft (KB) (TVD)
Total Depth: 3432.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1803.00 ft (KB)
1795.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8405 **Inside**
Press@RunDepth: 104.00 psia @ 3427.96 ft (KB)
Start Date: 2013.06.21 End Date: 2013.06.22
Start Time: 18:50:00 End Time: 01:32:30

Capacity: 5000.00 psia
Last Calib.: 2013.06.21
Time On Btm: 2013.06.21 @ 21:11:30
Time Off Btm: 2013.06.21 @ 23:51:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 1 inch in 5 gallon bucket.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow, flushed tool and gained 1 inch blow in 5 gallon bucket.
2nd Shut In/ 45 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1710.57	104.18	Initial Hydro-static
8	56.42	105.24	Open To Flow (1)
40	64.70	105.68	Shut-In(1)
82	576.02	106.12	End Shut-In(1)
83	57.00	106.04	Open To Flow (2)
128	104.00	106.56	Shut-In(2)
159	598.52	106.78	End Shut-In(2)
160	1673.04	106.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
45.00	trace of oil, 100% mud	0.63

Gas Rates

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

DST #3 ARBUCKLE

DRILL STEM TEST REPORT

Carrie Exploration & Development

210 W. 22nd
Hays Kansas, 67601

ATTN: Jeff Lawler

8/21s/11w/Stafford

Hayes #C-1

Job Ticket: 18402 **DST#: 3**

Test Start: 2013.06.21 @ 07:45:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:24:30
Time Test Ended: 13:30:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/50/Great Bend

Interval: 3429.00 ft (KB) To 3444.00 ft (KB) (TVD)
Total Depth: 3444.00 ft (KB) (TVD)

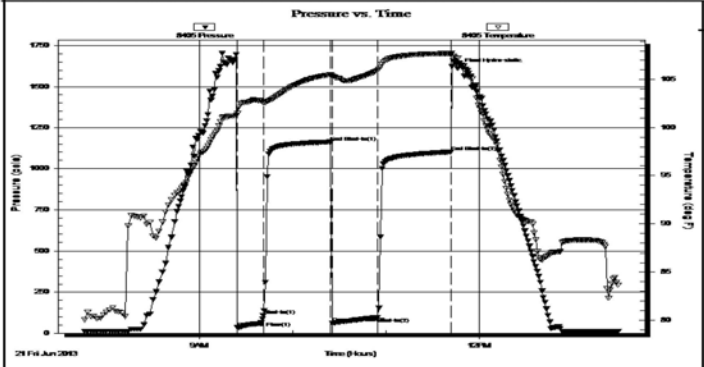
Reference Elevations: 1803.00 ft (KB)
1795.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8405 **Inside**

Press@RunDepth:	97.00 psia @	3440.00 ft (KB)		Capacity:	5000.00 psia
Start Date:	2013.06.21	End Date:	2013.06.21	Last Calib.:	2013.06.21
Start Time:	07:45:00	End Time:	13:30:00	Time On Btm:	
				Time Off Btm:	2013.06.21 @ 11:46:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 9 minutes and 15 seconds.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 40 seconds.
2nd Shut In/ 45 Minutes. Good blow back built to bottom of bucket after bleeding pressure off 4 times.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	34.38	101.52	Open To Flow (1)
17	107.40	102.58	Shut-In(1)
60	1162.91	105.52	End Shut-In(1)
61	60.52	105.36	Open To Flow (2)
90	97.00	105.95	Shut-In(2)
138	1101.85	107.72	End Shut-In(2)
142	1611.28	107.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1197 feet of gas.	0.00
100.00	Clean oil.	1.40
63.00	30% mud, 60% oil, 10% gas.	0.88
30.00	30% mud, 50% w ater, 15% oil, 5% gas.	0.42
0.00	Oil gravity w as 47 corrected.	0.00

Gas Rates

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

Superior Testers Enterprises LLC Ref. No: 18402 Printed: 2013.06.21 @ 13:55:05

ROCK TYPES

Cht, Dolprim, Lmst fw7>, shale, grn, shale, gry, Carbon Sh, shale, red, Shcol, Ss

ACCESSORIES

FOSSIL
Oolite

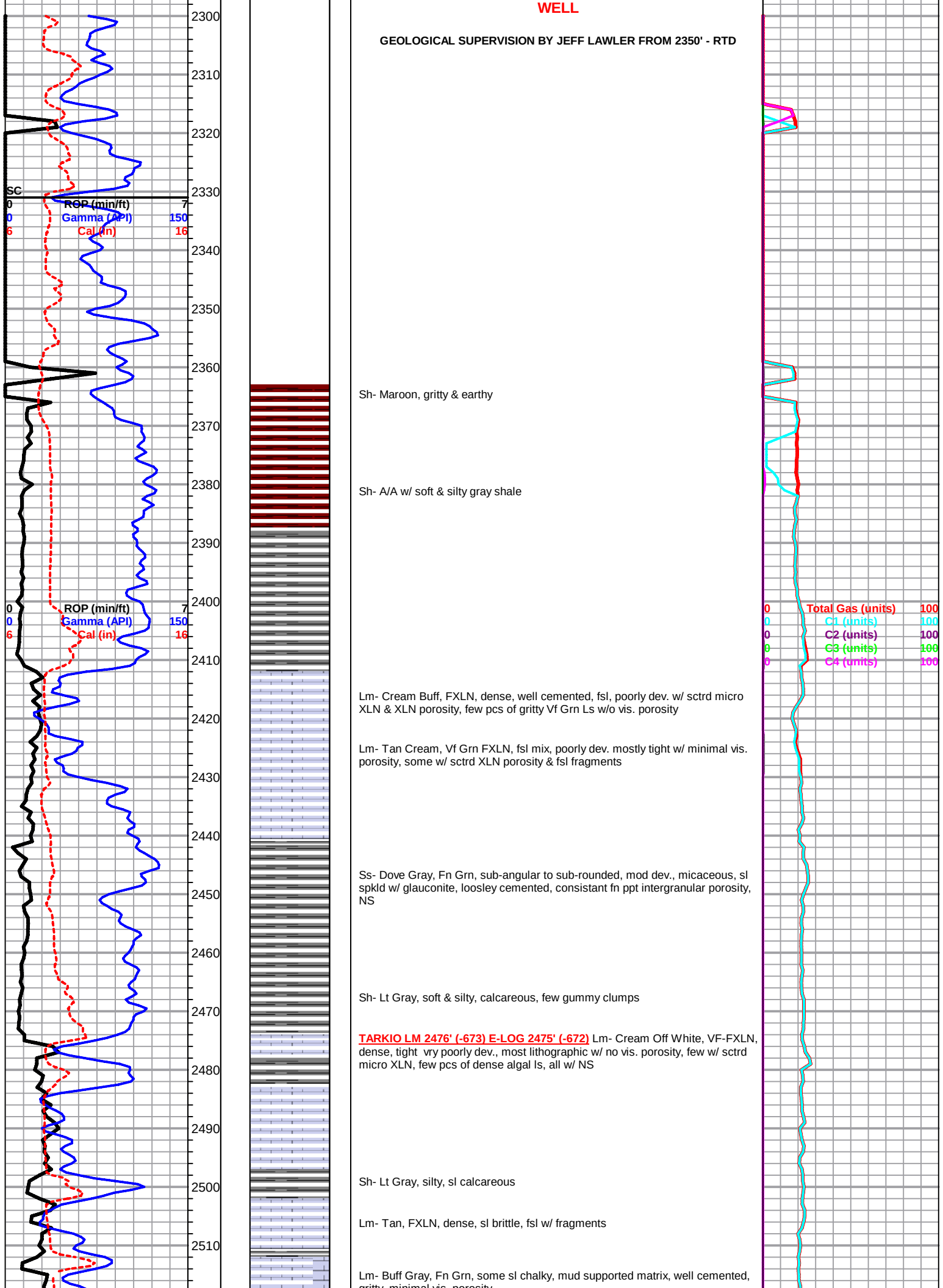
STRINGER
Sandstone

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)	Cored Interval					Total Gas (units)
Gamma (API)	DST Interval					C1 (units)
Cal (in)						C2 (units)
						C3 (units)
						C4 (units)
1:240 Imperial						1:240 Imperial
0 ROP (min/ft) 5	2290				1' DRILL TIME FROM 2300' - RTD	0 Total Gas (units) 100
0 Gamma (API) 150					10' WET/DRY SAMPLES FROM 2350' - RTD	0 C1 (units) 100
6 Cal (in) 16						0 C2 (units) 100
					BLOODHOUND GAS DETECTOR DEPLOYED ON THIS	0 C3 (units) 100
						0 C4 (units) 100



WELL

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 2350' - RTD

Sh- Maroon, gritty & earthy

Sh- A/A w/ soft & silty gray shale

Lm- Cream Buff, FXLN, dense, well cemented, fsl, poorly dev. w/ sctrd micro XLN & XLN porosity, few pcs of gritty Vf Grn Ls w/o vis. porosity

Lm- Tan Cream, Vf Grn FXLN, fsl mix, poorly dev. mostly tight w/ minimal vis. porosity, some w/ sctrd XLN porosity & fsl fragments

Ss- Dove Gray, Fn Grn, sub-angular to sub-rounded, mod dev., micaceous, sl spkld w/ glauconite, loosley cemented, consistant fn ppt intergranular porosity, NS

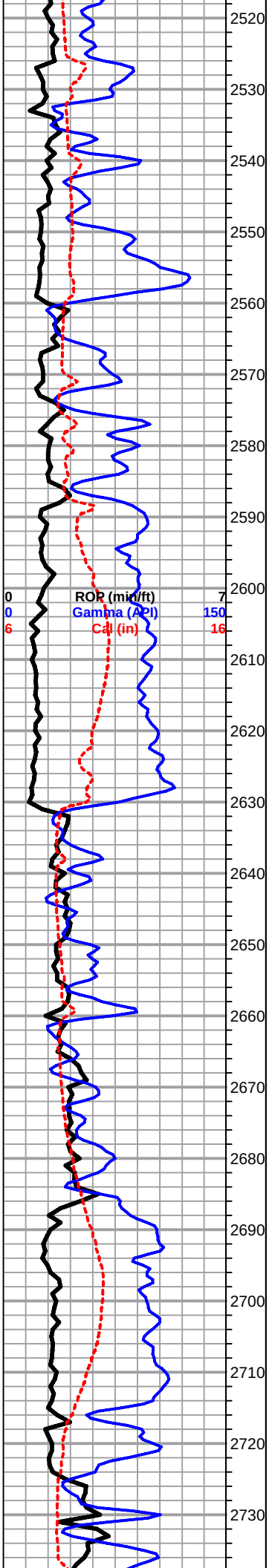
Sh- Lt Gray, soft & silty, calcareous, few gummy clumps

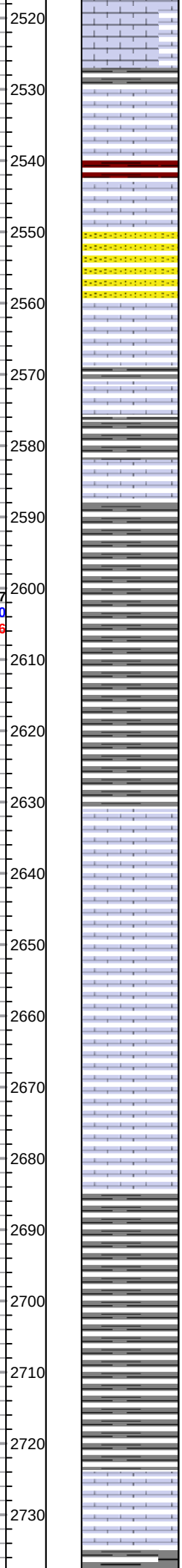
TARKIO LM 2476' (-673) E-LOG 2475' (-672) Lm- Cream Off White, VF-FXLN, dense, tight vry poorly dev., most lithographic w/ no vis. porosity, few w/ sctrd micro XLN, few pcs of dense algal ls, all w/ NS

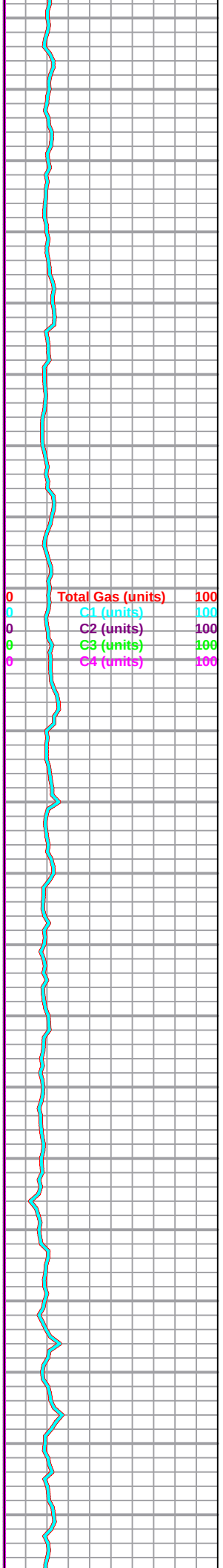
Sh- Lt Gray, silty, sl calcareous

Lm- Tan, FXLN, dense, sl brittle, fsl w/ fragments

Lm- Buff Gray, Fn Grn, some sl chalky, mud supported matrix, well cemented, gritty, minimal vis. porosity







2520

gritty, minimal vis. porosity

2530

Lm- Lt Gray, Fn Grn, fsl, high-energy mix, trashy mix Sh- Lt & Drk lenses

Lm- Lt Gray, Vf Grn, dense, well cemented, mud supported matrix, sl fsl, no vis. porosity

2540

Lm- Gray Buff, FXLN, dense & gritty, well cemented, sl fsl, tight w/o vis. porosity

2550

Ss- Dove Gray Mustard Yellow, sl unconsolidated, fused, conglomeratic

2560

Lm- White Off White, FXLN, dense, well cemented, fsl & poorly dev. sctrd micro XLN porosity

2570

Lm- Buff, VFXLN, dense, tight, fsl, sl sandy, no vis. porosity

2580

Lm- Lt Gray, VFXLN, dense, sl sandy & sl cherty, tight w/o vis. porosity, vry well cemented

2590

Ss- Lt Gray, Fn Grn, sorted, consolidated, sub-angular, loosely cemented, consistant fn ppt intergranular porosity, NS

2600

2610

Ss- A/A, grading into micaceous, some sandy & shaley Ss

2620

Sh- Gray, soft, vry silty, calcareous

2630

HOWARD 2631' (-828) E-LOG 2631' (-828) Lm- Tan Buff, Vf Grn, dense, well cemented, most lithographic w/ no vis. to minimal vis. porosity

2640

Lm- Cream Tan, FXLN, dense, sl fsl, poorly dev. w/ sctrd micro XLN porosity, clean & barren

2650

2660

Lm- Cream Off White, FXLN, dense, vry well cemented, sl sandy, apparent dense fenestral porosity, minimal effective porosity, barren

2670

2680

Lm- Gray, Vf - Fn Grn, chalky, soft & loosely cemented, fsl, poor intergranular vis. porosity

2690

Ss- Dove Gray Semi-Frosted, Vry Fn - Fn Grn, angular, consolidated & sorted, micaceous, loosely cemented to semi-fused, consistant fn ppt porosity, barren

2700

2710

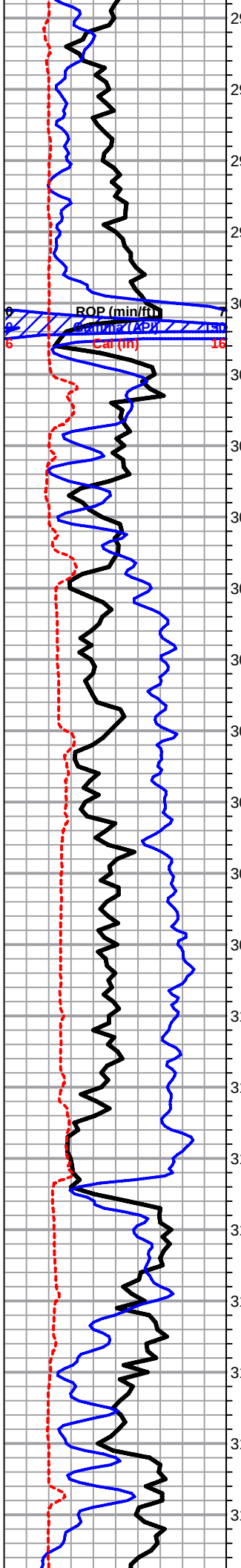
Sh- Lt Gray, vry silty & soft, calcareous, some gummy argillaceous clumps

2720

TOPEKA 2725' (-922) E-LOG 2724' (-921) Lm- Cream Lt Gray, FXLN, dense, fsl, well cemented, sctrd micro XLN, barren

2730


0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
2740
2750
2760
2770
2780
2790
2800
2810
2820
2830
2840
2850
2860
2870
2880
2890
2900
2910
2920
2930
2940
2950
Lm- Gray Tan, Vf-Fn Grn, soft, well cemented, fsl, massive, minimal intergranular porosity, few fsl fragments, barren, chalky in part
Lm- Cream Tan, VF-FXLN, mix of sub-sucrosic sl dolomitic ls, poorly developed w/ consistant micro XLN porosity, barren, & FXLN w/ fsl fragments, tight sl cherty ls, minimal vis. porosity, barren
Lm- Cream Off White, VF-FXLN, soft & loosely cemented, sl chalky in part, sl oolitic, sctrd sl development, sctrd micro XLN & rare fn ppt porosity, clean & barren
Lm- Cream Off White, FXLN, dense fsl cherty ls, sl dev. w/ sctrd micro XLN & XLN porosity, some w/ apparent fn ppt porosity & secondary recrystallization porosity, minimal effective porosity
Lm- Cream Off White, F-Med XLN, poorly dev. well cemented, interbedded fusulinids
Lm- White Cream, Vf Grn, soft, chalky, mud supported matrix, poor intergranular porosity
Sh- Black Drk & Lt Gray Maroon Lm Green, sl waxy, fissile, carbonaceous, soft & silty, calcareous
Lm- Cream Off White, FXLN, fsl, massive, dense, well cemented, sctrd XLN porosity
SAMPLES W/ MUCH SHALE CARRYOVER
Sh- Maroon Lm Green, sl waxy, gritty & earthy, sandy lm green lime
Sh- Black Drk Gray White, gritty, sl sandy, pyritic, sl fsl, highly rich in vis. micro organics, mottled white crumbley chalk
Chert- White, Crypto XLN, dense, gritty sl dolomitic chert, bone white & pristine
Sh- Lt Gray Maroon Lm Green, gummy argillaceous clumps, gritty & earthy, few sl waxy, some sl shaley lm green Ss
Lm- Cream Off White, VF-FXLN, dense, vry well cemented, sl fsl, tight w/ minimal vis. & rare micro XLN - XLN porosity
Lm- Cream Off White, FXLN, fsl, dense, loosely-well cemented, poorly devel. w/ sctrd XLN porosity, barren



2960

Lm- Cream Buff, Fn Grn, dense, well cemented, gritty & granular, sl fsl, tight w/ minimal vis. intergranular porosity

2970

Lm- Ivory, VFXLN, dense, sl cherty ls, vry well cemented w/o vis. porosity

2980

Lm- Tan, Crypto XLN, vry dense & well cemented cherty ls, no vis. porosity

2990

3000

HEEBNER 3003' (-1200) E-LOG 3000' (-1197) Sh- Black Maroon Gray, fissile, carbonaceous, silty, gritty & earthy

3010

TORONTO 3020' (-1217) E-LOG3017' (-1214) Lm- White Off White, F-Med XLN, fsl & oolitic, mod. dev. w/ sctrd ppt interoolite porosity, SCTRD TO RARE DRK BLK STN, NO SFO, SL TARRY, NO ODR

3020

3030

DOUGLAS SHALE 3037' (-1234) E-LOG 3034' (-1231) Sh- Gray Maroon, mostly sl waxy & crumbley, some argillaceous clumps

3040

3050

Sh- Lt Gray, sl silty, vry soft, calcareous, some sl sandy lime

3060

Sh- A/A w/ silty soft brown pcs, some lm green & dove gray shaley Ss, fused & poorly dev. w/ vry fn ppt intergranular porosity, NS

3070

D

Sh/Ss- Sh A/A, Ss- Clear to Semi-frosted, Fn Grn, angular, loosely cemented to fused, poorly dev. sorted & consolidated, SAT BLK DEAD STN, NO SFO, NO GSY SHEEN, NO ODR

3080

3090

Sh- Lt Gray, soft, silty, & calcareous

3100

3110

Sh- A/A

3120

BROWN LIME 3125' (-1322) E-LOG 3123' (-1320) Lm- Brown Tan, VF-FXLN, dense, vry well cemented, tight w/ minimal vis. porosity, lithographic

3130

Sh- Lt Gray, many gummy argillaceous clumps

3140

LKC 3141' (-1338) E-LOG 3140' Lm- Cream Off White, FXLN, sl fsl, mostly tight & vry well cemented, sctrd micro XLN porosity, barren

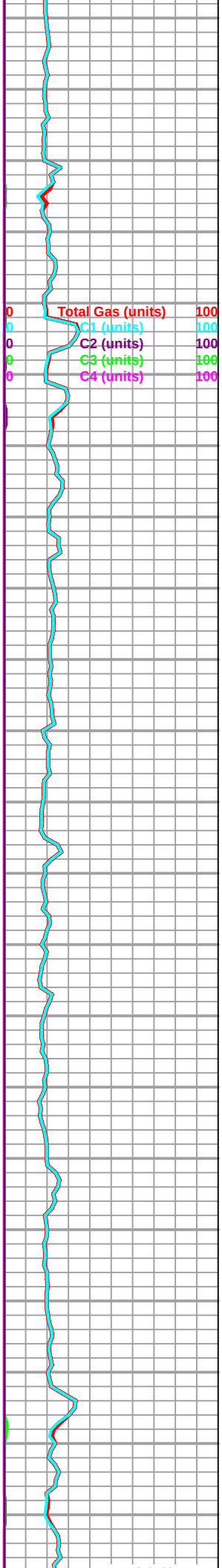
3150

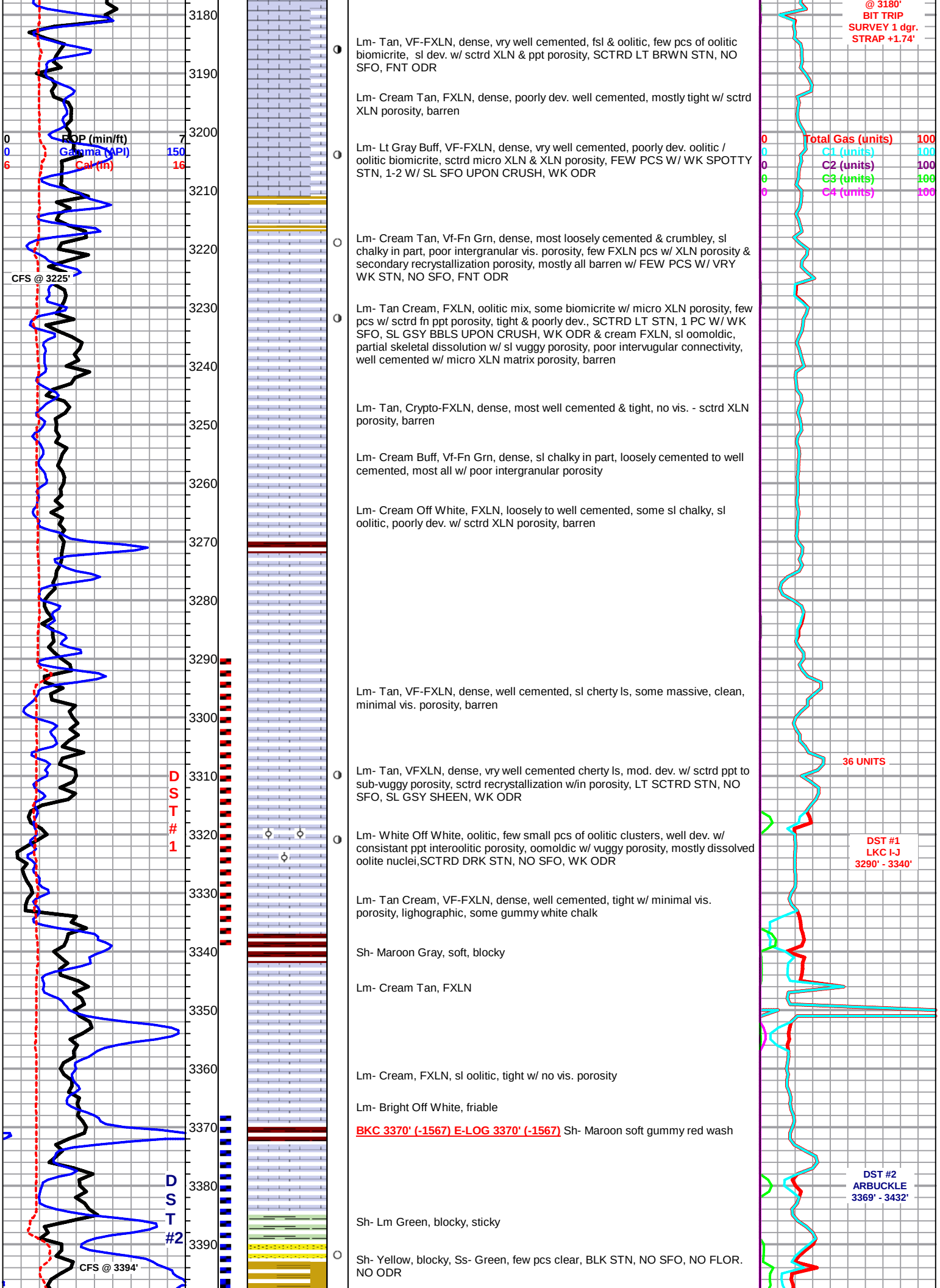
Lm- Ivory Buff, VF-FXLN, dense, mostly well cemented, sl - sctrd dev. some w/ minimal vis. - micro XLN porosity, some w/ mostly consistant fn ppt - ppt poroisty, SCTRD LT BROWN STN, SOME W/ RECRYSTALLIZATION W/IN POROSITY, NO SFO, FNT-WK ODR

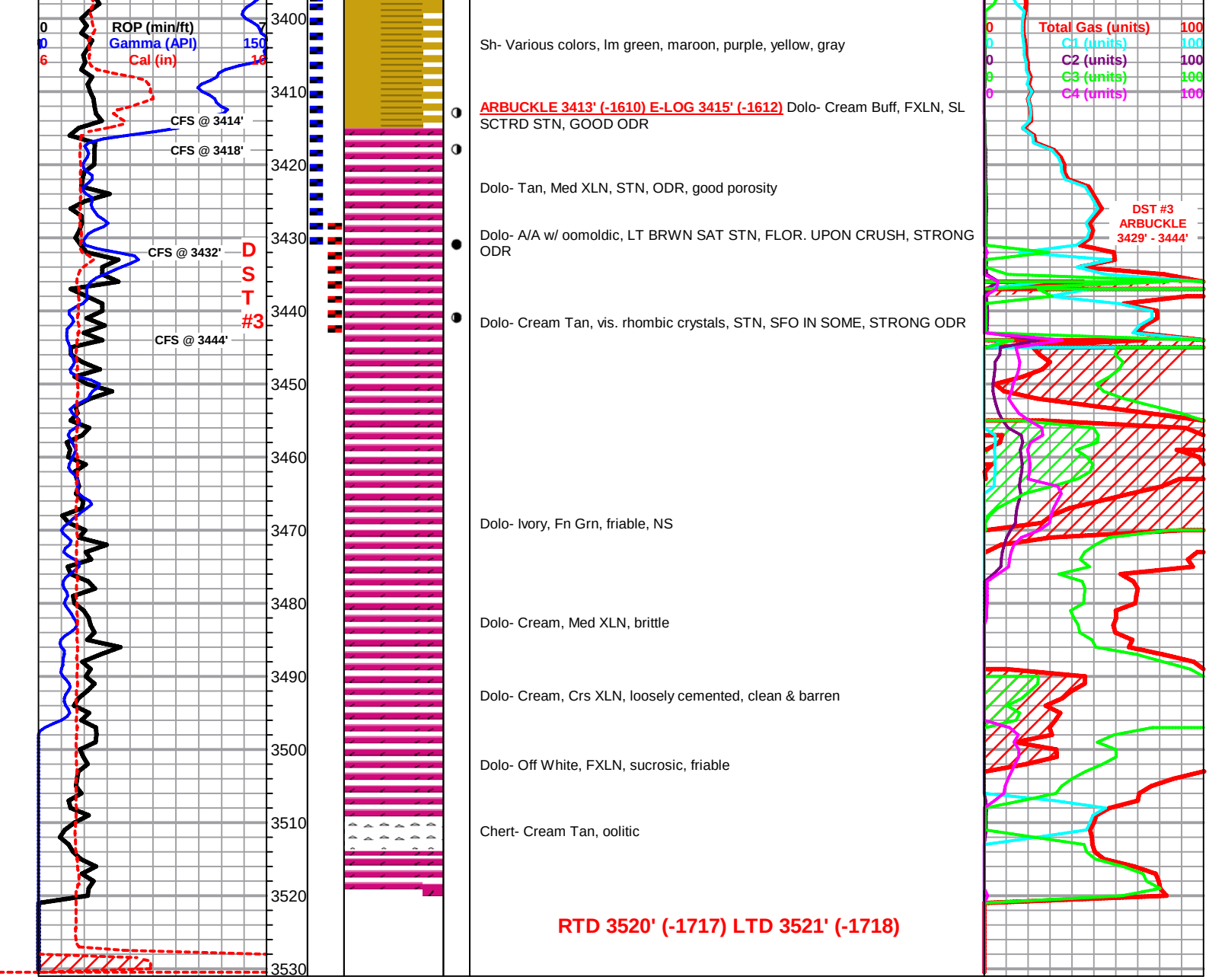
3160

3170

Lm- Cream Off White, VF-FXLN, dense, vry well cemented, sctrd dev. w/ vry fn ppt porosity, sl dolomitic ls, 2-3 PCS W/ SCTRD WK BLK STN, DEAD OIL, NO SFO, FNT ODR




0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16
3180
3190
3200
3210
3220
3230
3240
3250
3260
3270
3280
3290
3300
3310
3320
3330
3340
3350
3360
3370
3380
3390
CFS @ 3225'
CFS @ 3394'
DST #1
DST #2
Lm- Tan, VF-FXLN, dense, vry well cemented, fsl & oolitic, few pcs of oolitic biomicrite, sl dev. w/ sctrd XLN & ppt porosity, SCTRD LT BRWN STN, NO SFO, FNT ODR
Lm- Cream Tan, FXLN, dense, poorly dev. well cemented, mostly tight w/ sctrd XLN porosity, barren
Lm- Lt Gray Buff, VF-FXLN, dense, vry well cemented, poorly dev. oolitic / oolitic biomicrite, sctrd micro XLN & XLN porosity, FEW PCS W/ WK SPOTTY STN, 1-2 W/ SL SFO UPON CRUSH, WK ODR
Lm- Cream Tan, Vf-Fn Grn, dense, most loosely cemented & crumbley, sl chalky in part, poor intergranular vis. porosity, few FXLN pcs w/ XLN porosity & secondary recrystallization porosity, mostly all barren w/ FEW PCS W/ VRY WK STN, NO SFO, FNT ODR
Lm- Tan Cream, FXLN, oolitic mix, some biomicrite w/ micro XLN porosity, few pcs w/ sctrd fn ppt porosity, tight & poorly dev., SCTRD LT STN, 1 PC W/ WK SFO, SL GSY BBLS UPON CRUSH, WK ODR & cream FXLN, sl oomoldic, partial skeletal dissolution w/ sl vuggy porosity, poor intervugular connectivity, well cemented w/ micro XLN matrix porosity, barren
Lm- Tan, Crypto-FXLN, dense, most well cemented & tight, no vis. - sctrd XLN porosity, barren
Lm- Cream Buff, Vf-Fn Grn, dense, sl chalky in part, loosely cemented to well cemented, most all w/ poor intergranular porosity
Lm- Cream Off White, FXLN, loosely to well cemented, some sl chalky, sl oolitic, poorly dev. w/ sctrd XLN porosity, barren
Lm- Tan, VF-FXLN, dense, well cemented, sl cherty ls, some massive, clean, minimal vis. porosity, barren
Lm- Tan, VFXLN, dense, vry well cemented cherty ls, mod. dev. w/ sctrd ppt to sub-vuggy porosity, sctrd recrystallization w/in porosity, LT SCTRD STN, NO SFO, SL GSY SHEEN, WK ODR
Lm- White Off White, oolitic, few small pcs of oolitic clusters, well dev. w/ consistant ppt interoolitic porosity, oomoldic w/ vuggy porosity, mostly dissolved oolite nuclei,SCTRD DRK STN, NO SFO, WK ODR
Lm- Tan Cream, VF-FXLN, dense, well cemented, tight w/ minimal vis. porosity, lighographic, some gummy white chalk
Sh- Maroon Gray, soft, blocky
Lm- Cream Tan, FXLN
Lm- Cream, FXLN, sl oolitic, tight w/ no vis. porosity
Lm- Bright Off White, friable
BKC 3370' (-1567) E-LOG 3370' (-1567) Sh- Maroon soft gummy red wash
Sh- Lm Green, blocky, sticky
Sh- Yellow, blocky, Ss- Green, few pcs clear, BLK STN, NO SFO, NO FLOR. NO ODR
@ 3180'
BIT TRIP
SURVEY 1 dgr.
STRAP +1.74'
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100
36 UNITS
DST #1
LKC I-J
3290' - 3340'
DST #2
ARBUCKLE
3369' - 3432'


0
ROP (min/ft)
7
0
Gamma (API)
150
6
Cal (in)
16
CFS @ 3414'
CFS @ 3418'
CFS @ 3432'
CFS @ 3444'
DST #3
3400
3410
3420
3430
3440
3450
3460
3470
3480
3490
3500
3510
3520
3530
Sh- Various colors, lm green, maroon, purple, yellow, gray
ARBUCKLE 3413' (-1610) E-LOG 3415' (-1612) Dolo- Cream Buff, FXLN, SL SCTRD STN, GOOD ODR
Dolo- Tan, Med XLN, STN, ODR, good porosity
Dolo- A/A w/ oomoldic, LT BRWN SAT STN, FLOR. UPON CRUSH, STRONG ODR
Dolo- Cream Tan, vis. rhombic crystals, STN, SFO IN SOME, STRONG ODR
Dolo- Ivory, Fn Grn, friable, NS
Dolo- Cream, Med XLN, brittle
Dolo- Cream, Crs XLN, loosely cemented, clean & barren
Dolo- Off White, FXLN, sucrosic, friable
Chert- Cream Tan, oolitic
RTD 3520' (-1717) LTD 3521' (-1718)
0
Total Gas (units)
100
0
C1 (units)
100
0
C2 (units)
100
0
C3 (units)
100
0
C4 (units)
100
DST #3
ARBUCKLE
3429' - 3444'