

JASPAR COMPANY INC.

Scale 1:240 Imperial

Well Name: GARTH UNIT #1
Surface Location: SW NE SE NW Sec. 22 - 6S - 20W
Bottom Location:
API: 15-163-24338-00-00
License Number: 34903
Spud Date: 4/28/2017 Time: 12:00 AM
Region: ROOKS COUNTY KANSAS
Drilling Completed: 5/4/2017 Time: 12:35 PM
Surface Coordinates: 1710' FNL & 1410' FWL
Bottom Hole Coordinates:
Ground Elevation: 2169.00ft
K.B. Elevation: 2174.00ft
Logged Interval: 3000.00ft To: 3750.00ft
Total Depth: 3654.00ft
Formation: LANSING - KANSAS CITY; ARBUCKLE
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: JASPAR CO.
Address: P.O. BOX. 1120
HAYS, KS 67601
Contact Geologist: SHANE VEHIGE
Contact Phone Nbr: (785) 623-6982
Well Name: GARTH UNIT #1
Location: SW NE SE NW Sec. 22 - 6S - 20W
API: 15-163-24338-00-00
Pool:
State: KANSAS
Field: UNNAMED
Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.5412796
Latitude: 39.5198774
N/S Co-ord: 1710' FNL
E/W Co-ord: 1410' FWL

LOGGED BY



Company: BIG CREEK CONSULTING, INC.
Address: 1909 MAPLE
ELLIS, KS 67637

Phone Nbr: (785) 259-3737
 Logged By: GEOLOGIST

Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC
 Rig #: 8
 Rig Type: MUD ROTARY
 Spud Date: 4/28/2017
 TD Date: 5/4/2017
 Rig Release: 5/6/2017

Time: 12:00 AM
 Time: 12:35 PM
 Time: 10:45 PM

ELEVATIONS

K.B. Elevation: 2174.00ft
 K.B. to Ground: 5.00ft

Ground Elevation: 2169.00ft

NOTES

****THERE IS A 2' UPHOLE CORRECTION TO CORRELATE DRILLING TIME TO POROSITY LOG****


DUE TO ECONOMICAL RECOVERY ON DST #5 IT WAS DECIDED TO RUN 5 1/2" PRODUCTION CASING AND FURTHER EVALUATE THE CONGLOMERATE SAND WITH OPEN HOLE COMPLETION.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	GARTH UNIT #1				ATTABERRY #1 SE SE NW 22-6-20				GARTRELL #2 SW NE SW 22-6-20				GARTRELL #5 SE NE SW 22-6-20				D&R UNIT #1 SE SW SE NE 21-6-20												
	2174		2169		2186		2159		2184		2172		2172		2172		2172												
	LOG TOPS	SAMPLE TOPS	LOG TOPS	SAMPLE TOPS	LOG TOPS	SAMPLE TOPS	LOG TOPS	SAMPLE TOPS	LOG TOPS	SAMPLE TOPS	LOG TOPS	SAMPLE TOPS	LOG TOPS	SAMPLE TOPS	LOG TOPS	SAMPLE TOPS	LOG TOPS	SAMPLE TOPS											
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM											
ANHYDRITE TOP	1776	398	1776	398	1790	396	+	2	+	2	1761	398	+	0	+	0	1784	400	-	2	-	2	1770	402	-	4	-	4	
BASE	1808	366	1810	364								1790	369	-	3	-	5	1812	372	-	6	-	8	1803	369	-	3	-	5
TOPEKA	3176	-1002	3176	-1002								3158	-999	-	3	-	3	3182	-998	-	4	-	4	3164	-992	-	10	-	10
HEEBNER SHALE	3373	-1199	3375	-1201	3397	-1211	+	12	+	10	3358	-1199	+	0	-	2	3383	-1199	+	0	-	2	3363	-1191	-	8	-	10	
TORONTO	3396	-1222	3398	-1224	3418	-1232	+	10	+	8	3380	-1221	-	1	-	3	3407	-1223	+	1	-	1	3386	-1214	-	8	-	10	
LKC	3410	-1236	3411	-1237	3434	-1248	+	12	+	11	3395	-1236	+	0	-	1	3420	-1236	+	0	-	1	3401	-1229	-	7	-	8	
BKC	3610	-1436	3615	-1441								3594	-1435	-	1	-	6	3618	-1434	-	2	-	7	3599	-1427	-	9	-	14
CONGLOMERATE SAND			3650	-1476								3630	-1471	-	5	-	5	3652	-1468	-	8	-	8	3630	-1458	-	18	-	18
ARBUCKLE					3740	-1554						3670	-1511				3670	-1486					3638	-1466					
TOTAL DEPTH	3652	-1478	3654	-1480	3772	-1586	+	108	+	106	3686	-1527	+	49	+	47	3685	-1501	+	23	+	21	3698	-1526	+	48	+	46	

DST #1 TORONTO - LKC A 3370' - 3430'

	DRILL STEM TEST REPORT	
	Jaspar Co PO BOX 1120 Hays KS 67601 ATTN: Jeff Lawler	S22-6S-20W Rooks, KS Garth Unit #1 Job Ticket: 63207 Test Start: 2017.05.02 @ 06:20:00

GENERAL INFORMATION:

Formation: **Toronto-LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:55:45
 Time Test Ended: 12:05:00

Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84

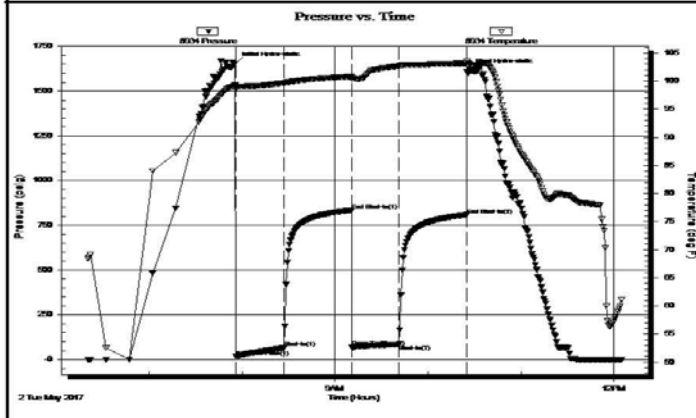
Interval: **3370.00 ft (KB) To 3430.00 ft (KB) (TVD)**
 Total Depth: 3430.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches-Hole Condition: Fair
 Reference Elevations: 2174.00 ft (KB)
 2169.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8934 **Inside**

Press@RunDepth: 83.70 psig @ 3377.00 ft (KB)
 Start Date: 2017.05.02 End Date: 2017.05.02
 Start Time: 06:20:15 End Time: 12:05:00

Capacity: 8000.00 psig
 Last Calib.: 2017.05.02
 Time On Btm: 2017.05.02 @ 07:55:30
 Time Off Btm: 2017.05.02 @ 10:27:00

TEST COMMENT: 30-IF-Fair Blow ; Built from a surface to 5"
 45-ISI-No Blow Back
 30-FF-Weak Blow ; at 3 minutes built from a surface to 3"
 45-FSI-No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.34	99.27	Initial Hydro-static
1	15.03	98.57	Open To Flow (1)
32	63.76	99.61	Shut-In(1)
75	831.17	100.80	End Shut-In(1)
76	68.64	100.34	Open To Flow (2)
106	83.70	102.66	Shut-In(2)
150	808.32	103.11	End Shut-In(2)
152	1619.47	102.93	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
160.00	WM 10% VV 90% M	1.14


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

Trilobite Testing, Inc

Ref. No: 63207

Printed: 2017.05.02 @ 19:38:10

DST #2 LKC C - D 3432' - 3476'



TRILOBITE TESTING, INC.

Jaspar Co
PO BOX 1120
Hays KS 67601
ATTN: Jeff Lawler

DRILL STEM TEST REPORT

S22-6S-20W Rooks, KS
Garth Unit #1
Job Ticket: 63208 **DST#: 2**
Test Start: 2017.05.02 @ 19:44:00

GENERAL INFORMATION:

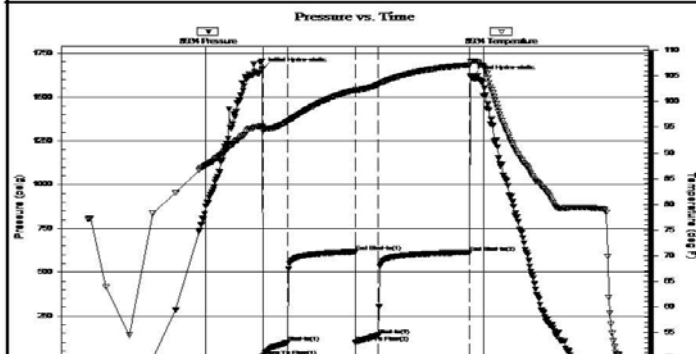
Formation: **LKC "C-D"**
 Deviated: No Whipstock ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:37:15 Tester: Spencer J. Staab
 Time Test Ended: 01:29:00 Unit No: 84

Interval: **3432.00 ft (KB) To 3476.00 ft (KB) (TVD)**
 Reference Elevations: 2174.00 ft (KB)
 Total Depth: 3476.00 ft (KB) (TVD) 2169.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8934 Inside

Press@RunDepth: 139.22 psig @ 3439.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.02 End Date: 2017.05.03 Last Calib.: 2017.05.03
 Start Time: 19:44:15 End Time: 01:29:00 Time On Btm: 2017.05.02 @ 21:37:00
 Time Off Btm: 2017.05.02 @ 23:51:45

TEST COMMENT: 15-IF-Strong Blow ; Built from 1/2" to BOB in 12 mins
 45-ISI-No Blow Back
 15-FF-Strong Blow ; Built from surface to 9&1/2"
 60-FSH-No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.69	95.06	Initial Hydro-static
1	18.79	94.39	Open To Flow (1)
16	97.57	96.04	Shut-In(1)
60	615.26	102.26	End Shut-In(1)
61	99.27	102.04	Open To Flow (2)
75	139.22	103.32	Shut-In(2)
134	611.23	107.11	End Shut-In(2)
135	1619.60	107.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbt)
270.00	MWV 30% M 70% W	2.69

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 63208

Gas Rates

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

Printed: 2017.05.03 @ 07:19:15

DST #3 LKC E - F 3476' - 3500'



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jaspar Co
 PO BOX 1120
 Hays KS 67601
 ATTN: Jeff Lawler

S22-6S-20W Rooks, KS
Garth Unit #1
 Job Ticket: 63209 **DST#: 3**
 Test Start: 2017.05.03 @ 07:44:00

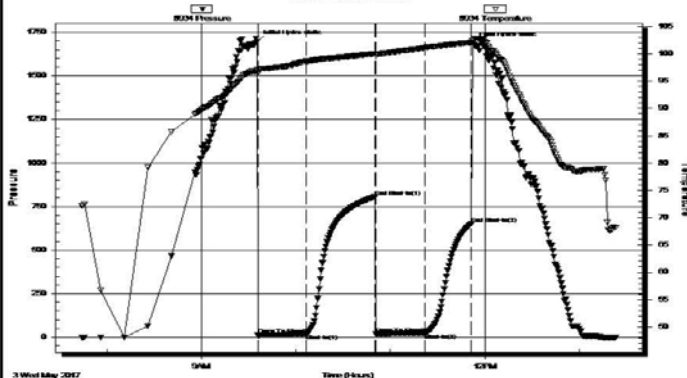
GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: No Whipstock ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:35:45 Tester: Spencer J. Staab
 Time Test Ended: 13:23:15 Unit No: 84
 Interval: **3476.00 ft (KB) To 3500.00 ft (KB) (TVD)** Reference Elevations: 2174.00 ft (KB)
 Total Depth: 3500.00 ft (KB) (TVD) 2169.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8934 Outside
 Press@RunDepth: 23.44 psig @ 3477.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.03 End Date: 2017.05.03 Last Calib.: 2017.05.03
 Start Time: 07:44:15 End Time: 13:23:15 Time On Btm: 2017.05.03 @ 09:35:30
 Time Off Btm: 2017.05.03 @ 11:52:15

TEST COMMENT: 30-IF-Very Weak Blow ; Built from a surface to 1"
 45-ISI-No Blow Back
 30-FF-No Blow
 30-FSH-No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.74	97.07	Initial Hydro-static
1	11.79	96.44	Open To Flow (1)
31	19.64	98.65	Shut-In(1)
75	805.02	99.99	End Shut-In(1)
76	18.91	99.66	Open To Flow (2)
107	23.44	101.13	Shut-In(2)
136	651.47	102.07	End Shut-In(2)
137	1690.07	102.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbt)
20.00	OCM 5% O 95% M	0.10

* Recovery from multiple tests

Trilobite Testing, Inc


Ref. No: 63209

Gas Rates

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

Printed: 2017.05.03 @ 15:24:35

DST #4 LKC H - I 3524' - 3572'

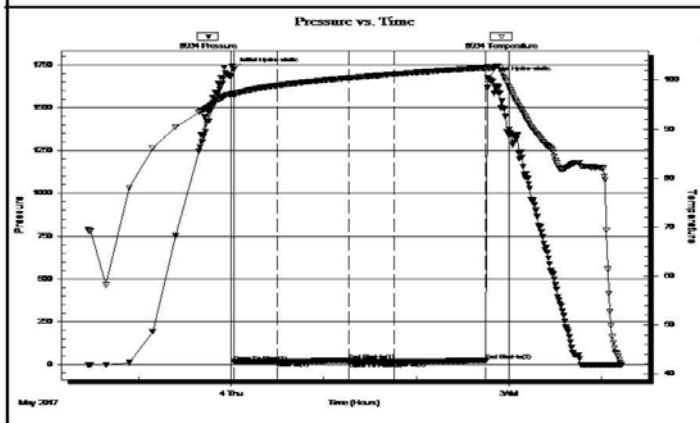
	DRILL STEM TEST REPORT	
	Jasper Co PO BOX 1120 Hays KS 67601 ATTN: Jeff Lawler	S22-6S-20W Rooks, KS Garth Unit #1 Job Ticket: 63210 DST#: 4 Test Start: 2017.05.03 @ 22:27:00

GENERAL INFORMATION:

Formation: LKC "H-I"	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock ft (KB)	Tester: Spencer J. Staab
Time Tool Opened: 00:01:45	Unit No: 84
Time Test Ended: 04:13:00	Reference Elevations: 2174.00 ft (KB)
Interval: 3524.00 ft (KB) To 3572.00 ft (KB) (TVD)	2169.00 ft (CF)
Total Depth: 3572.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

Serial #: 8934	Inside	Capacity: 8000.00 psig
Press@RunDepth: 16.79 psig @ 3535.00 ft (KB)	Start Date: 2017.05.03	Last Calib.: 2017.05.04
Start Time: 22:27:15	End Date: 2017.05.04	Time On Btm: 2017.05.04 @ 00:01:30
	End Time: 04:13:00	Time Off Btm: 2017.05.04 @ 02:46:00

TEST COMMENT: 30-IF-Very Weak Blow ; Built from a surface to 1/2"
 45-ISI-No Blow Back
 30-FF-No Blow
 60-FSI-No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1724.74	97.39	Initial Hydro-static
1	15.73	96.85	Open To Flow (1)
29	16.50	98.92	Shut-In(1)
75	24.18	100.45	End Shut-In(1)
75	15.79	100.46	Open To Flow (2)
104	16.79	101.22	Shut-In(2)
164	23.09	102.57	End Shut-In(2)
165	1676.58	102.59	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud w /scum oil 100% M	0.02

* Recovery from multiple tests

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

ROCK TYPES










Cht	shale, grn	Carbon Sh	Arg/Shale
Lmst fw7>	shale, gry	shale, red	Ss

ACCESSORIES

MINERAL * Sandy	STRINGER Sandstone
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OTHER SYMBOLS

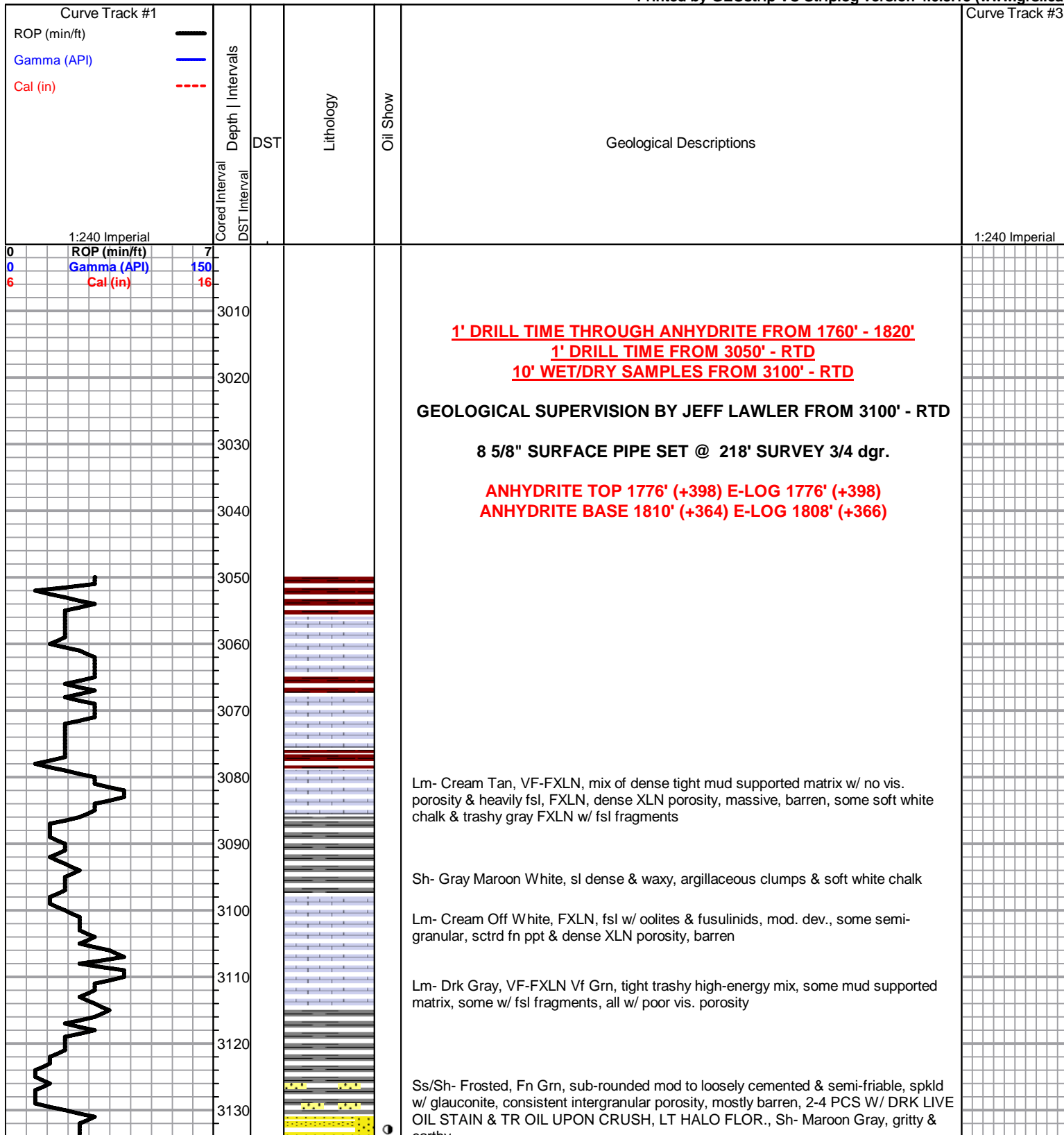
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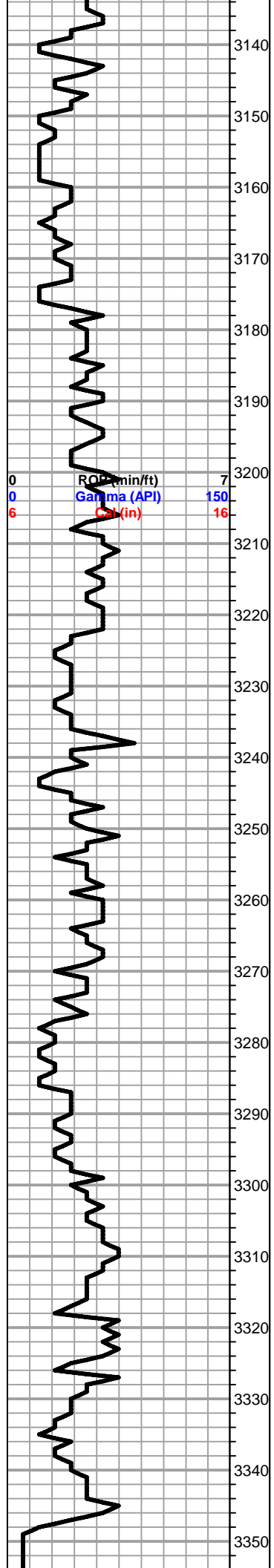
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-  Drill Cuttings Rpt

DST

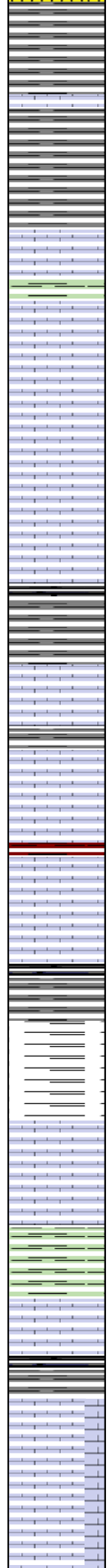
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-  DST alt

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





RO (min/ft) 7
 Gamma (API) 150
 Cal (in) 16



earthy

Sh- Gray, argillaceous clumps

Lm- Drk Gray, FXLN, trashy high-energy, poor vis. porosity, thin lens

Lm/Sh- Interbedded thin Lm & Sh beds, Lm- Tan Cream, mix of sharp cherty like Ls w/o vis. porosity, granular cream arenaceous Ls, loose & crumbly, intergranular porosity

TOPEKA 3176' (-1002) E-LOG 3176' (-1002) Lm- Cream Off White, FXLN, loosely cemented, sl fsl, poor vis. porosity, some chalky in part

Lm- Cream Tan, VFXLN Vf Grn, dense, tight, min. vis. porosity, chalky mud supported matrix

Lm- Cream Tan, Vf Grn, loosely cemented mud supported matrix, chalky, some soft white chalk

Lm- Buff Drk Gray, FXLN, well cemented high-energy trashy mix, fsl, dense XLN porosity

Lm- Gray, Fn Grn, well cemented, arenaceous Ls

Lm/Chert- Cream, mix of heavily fsl & oolitic Ls w/ sctrd-dense XLN porosity, gritty dolomitic Ls w/ consistent microXLN porosity, sharp cherty Ls w/o vis. porosity, & soft white chalk

Lm- Gray, FXLN, dense, well cemented, fsl, sctrd-dense XLN porosity, barren

Lm- Cream, VF-FXLN, mix of tight VFXLN w/ min. vis. porosity & fsl, FXLN w/ sctrd-dense XLN porosity, all barren, few sl chalky in part

Sh- Black Gray Maroon Green, fissile & carbonaceous, silty & waxy, gritty & earthy, many argillaceous clumps

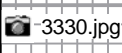
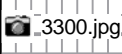
Lm- Off White Cream, VF-FXLN, mix of tight sl fsl w/ dense XLN porosity & loosely cemented & semi-friable arenaceous Ls w/ consistent intergranular porosity, 2-4 PCS W/ DRK SCTRD STN, NSFO, NO ODR, much soft white chalk

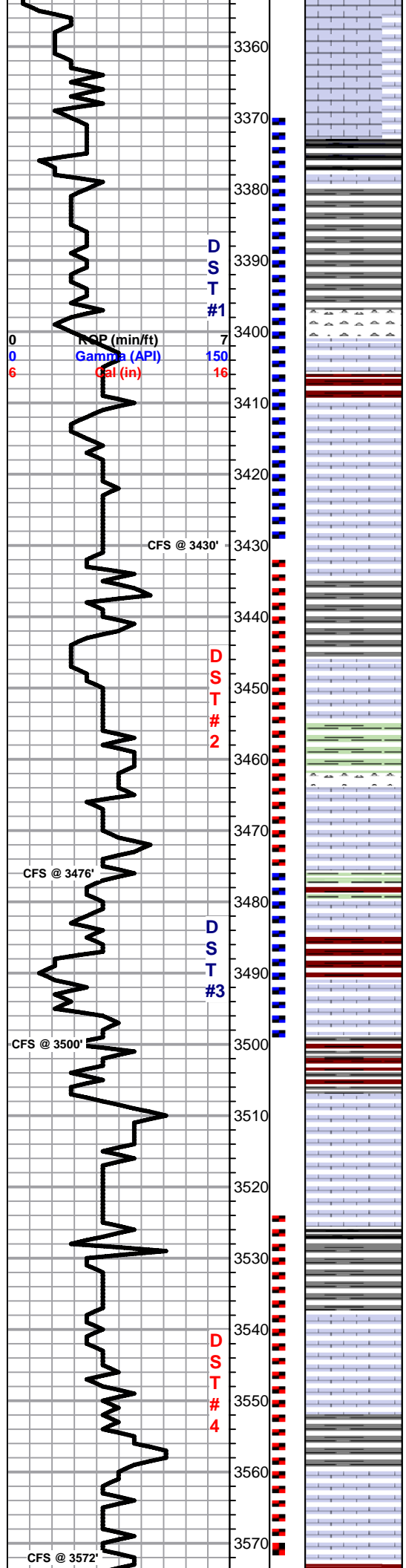
Sh- Green Maroon, sl waxy, gummy wash

Lm- Cream, FXLN, dense, well cemented, fsl w/ fusulinds, sctrd XLN porosity, barren

Lm- Cream Off White, FXLN, fsl & sl oolitic, sctrd ppt interoolite & XLN porosity, SCTRD DRK STN, NSFO, WK ODR, abundant soft white chalk

Lm- Cream Off White, mix of loosely cemented arenaceous Ls, intergranular porosity, sl fsl well cemented FXLN Lm w/ sctrd XLN porosity, & much soft white chalk





Lm- Cream Buff, FXLN, dense, well cemented, sl fsl, poorly dev. w/ sctrd XLN porosity

HEEBNER 3375' (-1201) E-LOG 3373' (-1199) Sh- Black, fissile & carbonaceous

TORONTO 3398' (-1224) E-LOG 3396' (-1222) Lm/Chert- Gray & White sharp fresh bedded chert on top, gradating into a fsl, sl oolitic w/ crinoids, mod. dev. w/ sctrd ppt & XLN porosity, sctrd secondary reXLN, SCTRD DRK STN, FR SHEEN, SL TR FO, FR ODR

LKC 3411' (-1237) E-LOG 3410' (-1236) Lm- White Off White, VF-MED XLN, mix of well dev. oolitic & fsl w/ sctrd-consistent ppt inter fsl porosity & secondary reXLN porosity, LT SCTRD STN, HVY SHEEN, NSFO, GD ODR, & mostly tight, well cemented w/ poor vis. porosity, some soft white chalk

Lm- Off White, VFXLN, dense cherty Ls w/ sctrd XLN porosity, SCTRD LT STN, NSFO, FR ODR

Sh- Gray Maroon, dense sl waxy slivers, gritty & earthy

Lm- Off White, VF-Med XLN, mix of well dev. oolitic clusters w/ consistent interoolite ppt porosity & secondary reXLN porosity, LT SCTRD STN, WK SHEEN, NSFO, MOD. ODR., & sl fsl w/ sctrd XLN porosity, barren, & soft sl chalky mud supported matrix, barren

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

Chert- Lt Gray, fresh bedded fsl sharp chert, cryptoXLN

Lm- Off White, FXLN, fsl, mod. dev. w/ sctrd fn ppt & XLN porosity, LT SCTRD STN, NSFO, LT SHEEN, WK ODR

Sh- Green Maroon, silty & calcareous, argillaceous clumps

Lm- Off White, FXLN, oolitic, sctrd dev. w/ sctrd fn ppt interoolite & XLN porosity, some loosely cemented, LT SCTRD STN, FR SHEEN, SL TR FO, GD SL SULPHURIC ODR (WATER??)

Lm- Tan, VF-FXLN, vry dense & well cemented, sl oolitic w/ some loose crinoids, porosity varies from min. vis.- sctrdn fn ppt interoolite & secondary reXLN porosity, DRK SCTRD STN, FR SHEEN, TR FO UPON CRUSH, GD ODR

Lm- White Off White, VF-FXLN Vf Grn, dense tight mix, well to loosely cemented & crumbly mud supported matrix, all vry clean & barren

Lm- Lt Gray/Mint Green, VFXLN Vf Grn, dense tight mix, mostly well cemented, mix of XLN & mud supported matrix, all clean & barren

Sh- Black Gray Green, fissile & carbonaceous, argillaceous clumps, silty & calcareous

Lm- Cream Off White, VF-FXLN, sl fsl, well cemented, sctrd XLN porosity, some sl chalky in part, LT SCTRD STN, TR FO, WK ODR

Lm- Off White, FXLN, fsl & oolitic, sctrd fn ppt interoolite & XLN porosity, LT SCTRD STN, 1 PC TR FO W/ GSY BUBBLES, NO ODR

SHORT TRIP SURVEY 1dgr. STRAP +0.76'

DST #1 TORONOT-LKC A 3370' - 3430' 30-45-30-45

160' WM (10%W)

IFP: 15-63#
FFP: 68-83#
SIP: 831-808#
BHT: 103 dgr

3405.jpg

3415.jpg

DST #2 LKC C-D 3432' - 3476' 15-45-15-60

270' MW (70%W)

IFP: 18-97#
FFP: 99-139#
SIP: 615-611#

3450.jpg

3470.jpg

3485.jpg

3495.jpg

DST #3 LKC E-F 3476' - 3500' 30-45-30-30

20' OCM (5%O)

IFP: 11-19#
FFP: 18-23#
SIP: 805-651#
HYD: 1696-1690#

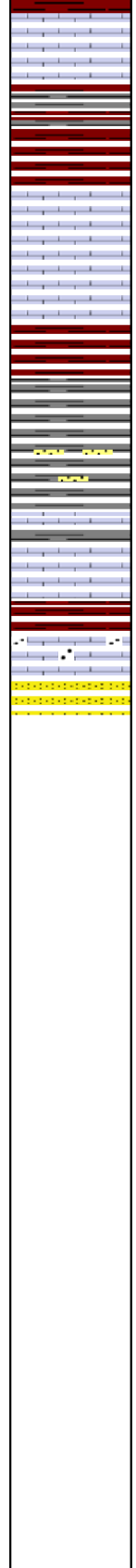
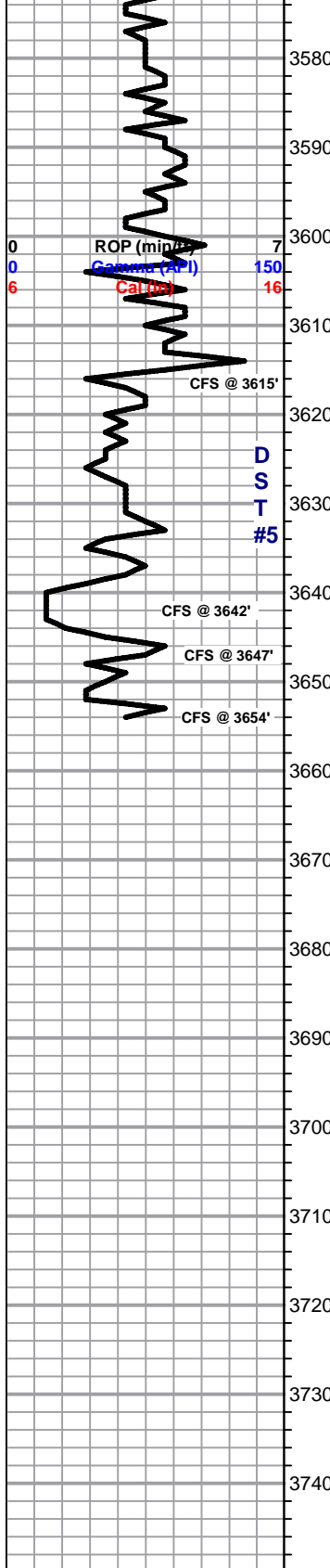
DST #4 LKC H - I 3524' - 3572' 30-45-30-60

5' MUD w/ OIL SCUM

IFP: 15-16#
FFP: 15-16#
SIP: 24-23#
HYD: 1724-1676#

3545.jpg

3562.jpg



Lm- Cream Off White, VF-FXLN, dense, well cemented, tight, poorly dev. w/ min. vis. porosity, sl chalky in part, some soft white chalk, clean & barren

Sh- Maroon Gray, gritty & earthy, semi-waxy

Lm- Tan, VF-FXLN, dense, fsl w/ fusulinids, poorly dev. w/ sctrd micro XLN & secondary reXLN porosity, clean & barren

BKC 3615' (-1441) E-LOG 3610' (-1436) Sh- Maroon Gray Green, gritty & earthy, argillaceous clumps, silty & calcareous, sl arenaceous

Sh- Gray, abundant argillaceous clumps & sandy shale

Sh- A/A w/ abundant argillaceous maroon clumps & shaley Ss/sandy shale

3642' 20"- Lm- White, FXLN, loosely cemented & crumbly, sl oolitic, some sl chalky in part, barren, abundant shale A/A, sl influx in shaley Ss

40"- Lm- A/A, influx of gritty & earthy maroon Sh

60"- Sh- influx of gritty & earthy maroon sh

3647' 20"- Lm- White, FXLN, sl fsl, oolitic w/ sctrd fn ppt interoolite porosity, barren

40"- Lm- White, FXLN, A/A, more dev. w/ sctrd ppt & XLN porosity, SCTRDRK STN, FR SFO, GD SULPHURIC ODR, some sl chalky in part

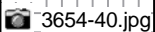
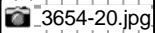
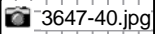
60"- Lm- A/A w/ sub-rounded med qtz inclusions, STN & ODR A/A

CONGLOMERATE SAND 3650' (-1476)

3654' 20"- Ss- Clear Frosted, Fn-Med Grn, sub-rounded, moderate sorting & consolidated, cementation varying from friable to mod. Ca cementation, DRK STN, FR SFO, GD ODR

40"- Ss- A/A w/ white varying degree of dolomitic cementation, DRK STN, FR SFO, GD ODR

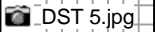
RTD 3654' (-1480) LTD 3652' (-1478) @ 12:35 5/4/2017



DST #5
CONGL. SAND
 3610' - 3654'
 30-45-30-60

240' TF
 120' OCWM
 (10% O, 25% W, 65% M)
 80' OCM
 (30% O, 70% M)
 20' MCO
 (80% O, 20% M)
 20' SMCO
 (95% O, 5% M)

Gr: 27 API
 IFP: 32-81#
 FFP: 92-11#
 SIP: 1056-1057#
 HYD: 1772-1727#
 BHT: 109 dgr.





0.2 mm

3300' x 30



0.5 mm

3330' x 20



0.2 mm

3405' X 30





0.5 mm

3450' x 25





0.5 mm

3485' X 20



0.5 mm

3495' X 20



0.5 mm

3545' X 20

3562.jpg

A011 1280x1024 2017/05/03 20:55:50 Unit: mm Magnification: 77.5 x 1



3562' X 20

3647-40.jpg

A012 1280x1024 2017/05/04 14:47:39 Unit: mm Magnification: 77.5 x 1



3647' 40" X 20

3654-20.jpg



3654-40.jpg



