



Scale 1:240 Imperial

Well Name: ROY #1
Surface Location: N2 SW NW NW Sec. 8 - 7S - 20W
Bottom Location:
API: 15-163-24197
License Number: 34903
Spud Date: 4/4/2014 Time: 1:15 PM
Region: ROOKS COUNTY
Drilling Completed: 4/11/2014 Time: 11:11 AM
Surface Coordinates: 700' FNL & 330' FWL
Bottom Hole Coordinates:
Ground Elevation: 2162.00ft
K.B. Elevation: 2167.00ft
Logged Interval: 3050.00ft To: 3720.00ft
Total Depth: 3720.00ft
Formation: LANSING - KANSAS CITY, ARBUCKLE
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: JASPAR COMPANY, INC.
Address: 1681 LIMESTONE ROAD SOUTH
P.O. BOX 1120
HAYS, KS 67601
Contact Geologist: SHANE VEHIGE
Contact Phone Nbr: (785) 623-6982
Well Name: ROY #1
Location: N2 SW NW NW Sec. 8 - 7S - 20W API: 15-163-24197
Pool: Field: ROY
State: KANSAS Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.5827640 Latitude: 39.4646464
N/S Co-ord: 700' FNL
E/W Co-ord: 330' 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 #: 6
Rig Type: MUD ROTARY
Spud Date: 4/4/2014 Time: 1:15 PM
TD Date: 4/11/2014 Time: 11:11 AM
Rig Release: 4/12/2014 Time: 9:15 PM

ELEVATIONS

K.B. Elevation: 2167.00ft Ground Elevation: 2162.00ft

NOTES


DUE TO ECONOMICAL RECOVERY ON DST #5 & #8 DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING AND FUTURE EVALUATE ZONES WITH PERFORATION. THERE ARE ALSO ARBUCKLE INTERVALS THAT SHOULD BE TESTED BEFORE CONVERTING TO A SALT WATER DISPOSAL OR INJECTION WELL.

RESPECTFULLY SUBMITTED,
JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	ROY #1								SW NE NW 8-7-20				NESW NE 7-7-20				SW SE SE 6-7-20			
	2167		2162		2211		2187		2156		2199									
	LOGTOPS	SAMPLETOPS	LOGTOPS	SAMPLETOPS	LOGTOPS	SAMPLETOPS	LOGTOPS	SAMPLETOPS	LOGTOPS	SAMPLETOPS	LOGTOPS	SAMPLETOPS	LOGTOPS	SAMPLETOPS	LOGTOPS	SAMPLETOPS	LOGTOPS	SAMPLETOPS		
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM		
ANHYDRITE TOP	1749	418	1749	418	1789	422	-4	-4	1756	431	-13	-13	1740	416	+2	+2	1797	402	+16	+16
BASE	1780	387	1780	387	1821	390	-3	-3	1770	386	+1	+1	1810	389	-2	-2				
TOPEKA	3144	-977	3143	-976	3183	-972	-5	-4	3172	-985	+8	+9	3137	-981	+4	+5	3186	-987	+10	+11
HEEBNER SHALE	3352	-1185	3352	-1185	3392	-1181	-4	-4	3377	-1190	+5	+5	3349	-1193	+8	+8	3389	-1190	+5	+5
TORONTO	3375	-1208	3379	-1212	3414	-1203	-5	-9	3401	-1214	+6	+2	3372	-1216	+8	+4	3410	-1211	+3	-1
LKC	3390	-1223	3393	-1226	3429	-1218	-5	-8	3416	-1229	+6	+3	3388	-1232	+9	+6	3424	-1225	+2	-1
BKC	3588	-1421	3588	-1421	3622	-1411	-10	-10	3614	-1427	+6	+6	3582	-1426	+5	+5	3622	-1423	+2	+2
CHERTY CONGLOMERATE									3668	-1481										
ARBUCKLE	3628	-1461	3626	-1459	3663	-1452	-9	-7					3618	-1462	+1	+3				
RTD			3720	-1553	3710	-1499			3718	-1531			3653	-1497			3700	-1501		
LTD	3719	-1552			3705	-1494	-58										3699	-1500	-52	

DST #1 TORONTO 3351' - 3391'



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jasper Co. **8 7s 20w Rooks**

P. O. Box 1120 **Roy # 1**
Hays KS 67601

Job Ticket: 57585 **DST# 1**

ATTN: Jeff Lawler **Test Start: 2014.04.07 @ 13:13:00**

GENERAL INFORMATION:

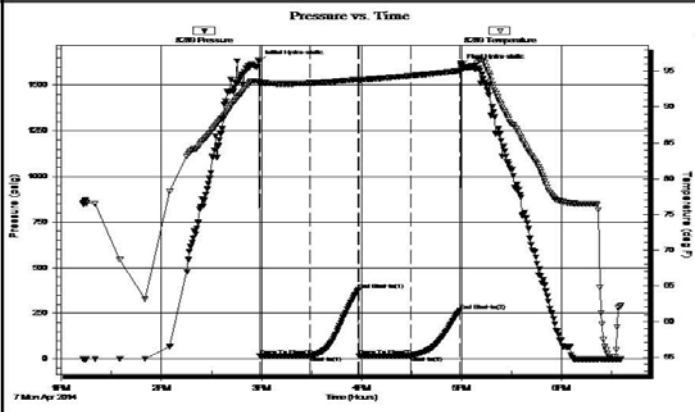
Formation: **Toronto**
 Deviated: No Whipstock: 2164.00 ft (KB)
 Time Tool Opened: 14:58:45
 Time Test Ended: 18:36:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76

Interval: 3351.00 ft (KB) To 3391.00 ft (KB) (TVD)
 Total Depth: 3391.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2164.00 ft (KB)
 2159.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 19.46 psig @ 3352.00 ft (KB)
 Capacity: 8000.00 psig
 Start Date: 2014.04.07 End Date: 2014.04.07
 Last Calib.: 2014.04.07
 Start Time: 13:13:02 End Time: 18:35:45
 Time On Btm: 2014.04.07 @ 14:58:30
 Time Off Btm: 2014.04.07 @ 16:59:15

TEST COMMENT: 30-IFP- Weak Surface Blow Died in 17 min.
 30-ISIP- No Blow
 30-FFP- No Blow
 30-FSIP- No Blow



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.51	93.66	Initial Hydro-static
1	16.46	93.16	Open To Flow (1)
31	17.59	93.36	Shut-In(1)
60	378.75	93.88	End Shut-In(1)
60	18.07	93.73	Open To Flow (2)
91	19.46	94.38	Shut-In(2)
121	263.30	95.08	End Shut-In(2)
121	1608.61	95.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	OSM 100%	0.01

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 57585

Printed: 2014.04.07 @ 23:04:23

DST #2 LKC A - B 3387' - 3423'



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Jasper Co.
P. O. Box 1120
Hays KS 67601
ATTN: Jeff Lawler

8 7s 20w Rooks
Roy # 1
Job Ticket: 57586 **DST#: 2**
Test Start: 2014.04.08 @ 01:05:00

GENERAL INFORMATION:

Formation: **LKC "A & B"**
Deviated: No Whipstock: 2164.00 ft (KB)
Time Tool Opened: 02:53:45
Time Test Ended: 06:40:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Jim Svaty
Unit No: 76

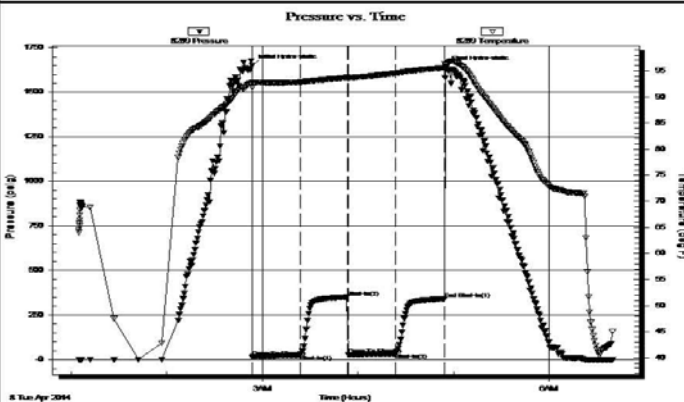
Interval: **3387.00 ft (KB) To 3423.00 ft (KB) (TVD)**
Total Depth: 3423.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2164.00 ft (KB)
2159.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press@RunDepth: 25.61 psig @ 3388.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.04.08 End Date: 2014.04.08 Last Calib.: 2014.04.08
Start Time: 01:05:02 End Time: 06:40:00 Time On Btm: 2014.04.08 @ 02:53:30
Time Off Btm: 2014.04.08 @ 04:54:45

TEST COMMENT: 30-IFP- Surface Blow Building to 1 in.
30-ISIP- No Blow
30-FFP- Weak Surface Blow in 4 min.
30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.26	92.72	Initial Hydro-static
1	15.32	91.79	Open To Flow (1)
31	25.61	92.82	Shut-In(1)
60	350.88	93.71	Shut-In(2)
61	27.41	93.57	Open To Flow (2)
91	34.57	94.52	Shut-In(3)
121	341.05	95.61	End Shut-In(1)
122	1640.93	95.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	WCM 30%w 70%m	0.07

Gas Rates

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


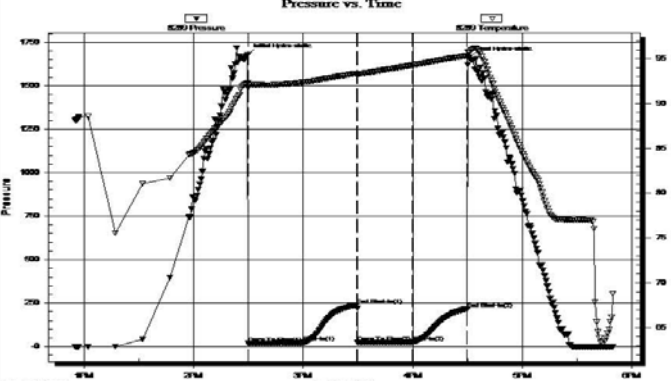
* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 57586

Printed: 2014.04.08 @ 06:49:52

DST #3 LKC C - D 3418' - 3460'

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																
	Jasper Co. P. O. Box 1120 Hays KS 67601 ATTN: Jeff Lawler	8 7s 20w Rooks Roy # 1 Job Ticket: 57587 DST#: 3 Test Start: 2014.04.08 @ 12:55:00																															
GENERAL INFORMATION: Formation: LKC "C & D" Deviated: No Whipstock: 2164.00 ft (KB) Time Tool Opened: 14:29:45 Time Test Ended: 17:50:00 Test Type: Conventional Bottom Hole (Reset) Tester: Jim Svaty Unit No: 76 Reference Elevations: 2164.00 ft (KB) 2159.00 ft (CF) KB to GR/CF: 5.00 ft Interval: 3418.00 ft (KB) To 3460.00 ft (KB) (TVD) Total Depth: 3460.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair																																	
Serial #: 8289 Outside Press@RunDepth: 24.61 psig @ 3419.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.08 End Date: 2014.04.08 Last Calib.: 2014.04.08 Start Time: 12:55:02 End Time: 17:50:15 Time On Btm: 2014.04.08 @ 14:29:30 Time Off Btm: 2014.04.08 @ 16:30:30																																	
TEST COMMENT: 30-IFP- 1/4 in. Blow 30-ISIP- No Blow 30-FFP- No Blow 30-FSP- No Blow																																	
	PRESSURE SUMMARY																																
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																													
	0	1677.74	92.29	Initial Hydro-static																													
	1	19.14	91.74	Open To Flow (1)																													
	31	21.95	92.36	Shut-In(1)																													
	60	238.11	93.37	End Shut-In(1)																													
	61	22.80	93.24	Open To Flow (2)																													
	91	24.61	94.26	Shut-In(2)																													
	121	216.22	95.33	End Shut-In(2)																													
	121	1661.81	95.67	Final Hydro-static																													
Recovery	Gas Rates																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>5.00</td> <td>OSM 100%</td> <td>0.02</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Length (ft)	Description	Volume (bbl)	5.00	OSM 100%	0.02													<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)									
Length (ft)	Description	Volume (bbl)																															
5.00	OSM 100%	0.02																															
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																															
<small>* Recovery from multiple tests</small> Trilobite Testing, Inc Ref. No: 57587 Printed: 2014.04.08 @ 20:57:44																																	

DST #4 LCK E - F 3452' - 3482'

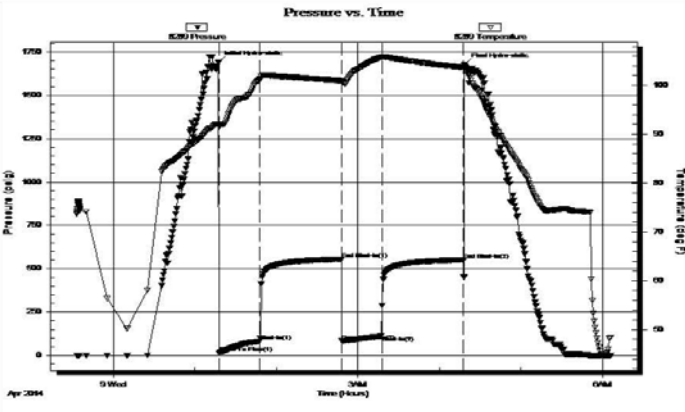
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT		
	Jasper Co. P. O. Box 1120 Hays KS 67601 ATTN: Jeff Lawler	8 7s 20w Rooks Roy # 1 Job Ticket: 57588 DST#: 4 Test Start: 2014.04.08 @ 23:33:00	

GENERAL INFORMATION:

Formation: **LKC " E & F "**
 Deviated: No Whipstock: 2164.00 ft (KB)
 Time Tool Opened: 01:17:45
 Time Test Ended: 06:06:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Interval: **3452.00 ft (KB) To 3482.00 ft (KB) (TVD)**
 Total Depth: 3482.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Reference Elevations: 2164.00 ft (KB)
 2159.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 111.80 psig @ 3453.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.04.08 End Date: 2014.04.09 Last Calib.: 2014.04.09
 Start Time: 23:33:02 End Time: 06:06:15 Time On Btm: 2014.04.09 @ 01:17:15
 Time Off Btm: 2014.04.09 @ 04:18:30

TEST COMMENT: 30-IFP- Surface Blow Building to 9 1/2in.
 60-ISIP- No Blow
 30-FFP- Surface Blow Building to 7 1/4in.
 60-FSP- No Blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.15	92.12	Initial Hydro-static
1	14.89	91.61	Open To Flow (1)
31	81.02	101.23	Shut-In(1)
91	555.18	100.99	End Shut-In(1)
91	83.54	100.70	Open To Flow (2)
121	111.80	105.74	Shut-In(2)
181	551.63	103.67	End Shut-In(2)
182	1679.21	103.86	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bb)
202.00	MCV 10% m 90% w	1.72
1.00	Oil Cap 100%	0.01

* Recovery from multiple tests

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

Trilobite Testing, Inc

Ref. No: 57588

Printed: 2014.04.09 @ 07:54:42

ROCK TYPES

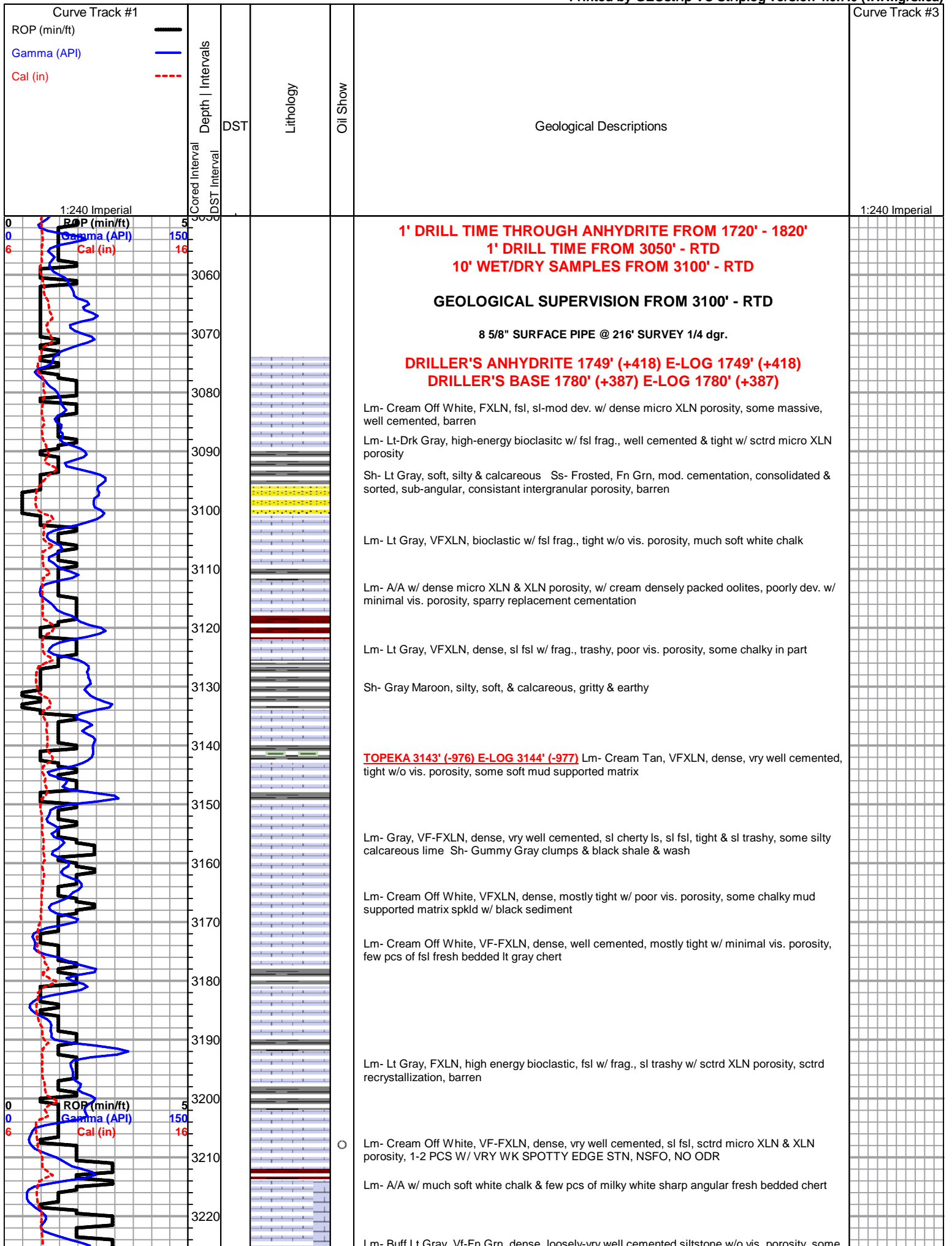
- Dolprim
- Lmst fw7> shale, gry
- Carbon Sh shale, red
- Arg/Shale Ss
- Dolsec

ACCESSORIES

- MINERAL**
P Pyrite
* Sandy
/ Euhed rhombs of dol or c
- FOSSIL**
◇ Oolite
- STRINGER**
— Shale
— green shale
— red shale

OTHER SYMBOLS

- MISC**
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
- DST**
 DST Int
 DST alt
 DST



1' DRILL TIME THROUGH ANHYDRITE FROM 1720' - 1820'
1' DRILL TIME FROM 3050' - RTD
10' WET/DRY SAMPLES FROM 3100' - RTD

GEOLOGICAL SUPERVISION FROM 3100' - RTD

8 5/8" SURFACE PIPE @ 216' SURVEY 1/4 dgr.

DRILLER'S ANHYDRITE 1749' (+418) E-LOG 1749' (+418)
DRILLER'S BASE 1780' (+387) E-LOG 1780' (+387)

Lm- Cream Off White, FXLN, fsl, sl-mod dev. w/ dense micro XLN porosity, some massive, well cemented, barren

Lm- Lt-Drk Gray, high-energy bioclastic w/ fsl frag., well cemented & tight w/ sctrd micro XLN porosity

Sh- Lt Gray, soft, silty & calcareous Ss- Frosted, Fn Grn, mod. cementation, consolidated & sorted, sub-angular, consistant intergranular porosity, barren

Lm- Lt Gray, VFXLN, bioclastic w/ fsl frag., tight w/o vis. porosity, much soft white chalk

Lm- A/A w/ dense micro XLN & XLN porosity, w/ cream densely packed oolites, poorly dev. w/ minimal vis. porosity, sparry replacement cementation

Lm- Lt Gray, VFXLN, dense, sl fsl w/ frag., trashy, poor vis. porosity, some chalky in part

Sh- Gray Maroon, silty, soft, & calcareous, gritty & earthy

TOPEKA 3143' (-976) E-LOG 3144' (-977) Lm- Cream Tan, VFXLN, dense, vry well cemented, tight w/o vis. porosity, some soft mud supported matrix

Lm- Gray, VF-FXLN, dense, vry well cemented, sl cherty ls, sl fsl, tight & sl trashy, some silty calcareous lime Sh- Gummy Gray clumps & black shale & wash

Lm- Cream Off White, VFXLN, dense, mostly tight w/ poor vis. porosity, some chalky mud supported matrix spkld w/ black sediment

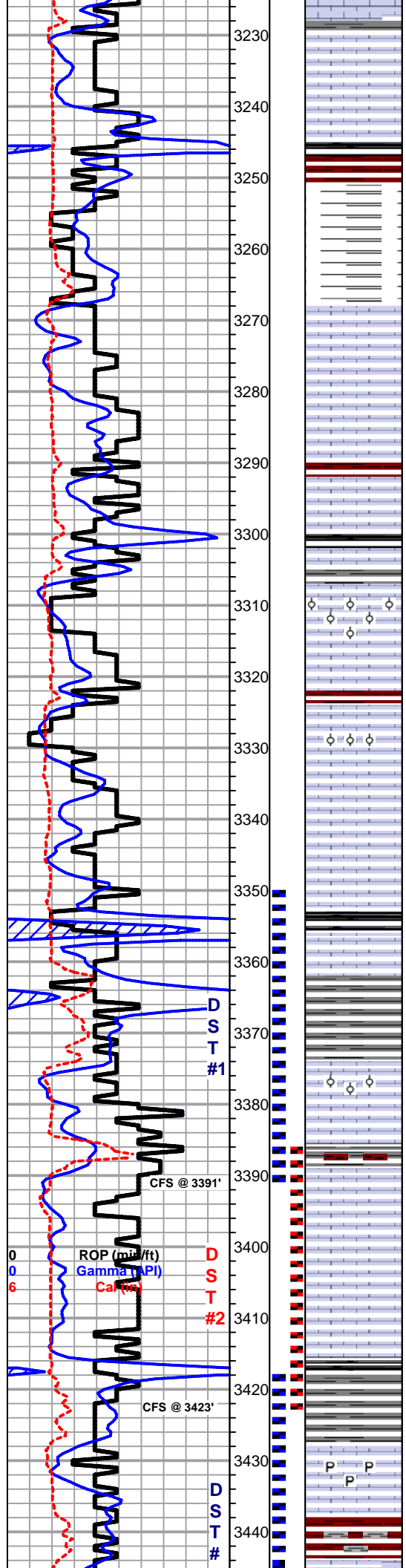
Lm- Cream Off White, VF-FXLN, dense, well cemented, mostly tight w/ minimal vis. porosity, few pcs of fsl fresh bedded lt gray chert

Lm- Lt Gray, FXLN, high energy bioclastic, fsl w/ frag., sl trashy w/ sctrd XLN porosity, sctrd recrystallization, barren

Lm- Cream Off White, VF-FXLN, dense, vry well cemented, sl fsl, sctrd micro XLN & XLN porosity, 1-2 PCS W/ VRY WK SPOTTY EDGE STN, NSFO, NO ODR

Lm- A/A w/ much soft white chalk & few pcs of milky white sharp angular fresh bedded chert

Lm- Buff Lt Gray, Vf-Fn Grn, dense, loosely-vry well cemented siltstone w/o vis. porosity, some



sl unconsolidated

Lm- Cream Off White, FXLN, sl dolomitic ls w/ consistant XLN porosity throughout, most well cemented, some sl chalky in part, clean & barren

Sh- Black Brick Red Lm Green, fissile, carbonaceous, gritty & earthy, gummy sandy lime

Sh- Maroon, gummy argillaceous clumps

Lm- Cream Off White, VF-FXLN, dense, fsl & sl oolitic, poorly dev., mostly well cemented & tight w/ sctrd recrystallization, sctrd micro XLN & XLN porosity, some soft mud supported matrix & soft white chalk

Lm- A/A w/ few pcs of VFXLN of sl dolomitic ls w/ consistant micro XLN porosity, barren

Sh- Maroon, gritty & earthy

Lm- Cream Off White, FXLN, oolitic, some w/ sctrd recrystallization, XLN porosity, barren

Sh- Black Gray Maroon, fissile & carbonaceous, silty & soft, gritty & earthy, some gummy clumps

Lm- Cream Off White, FXLN Fn Grn, dense mix, sl fsl xln, well cemented, sctrd XLN porosity & some mud supported matrix, chalky in part, poor vis. porosity

Lm- Cream, pearl shaped oolitic grainstone w/ ppt interoolite porosity & FXLN, oolitic w/ sctrd recrystallization, SCTRD BLK STN, TR FO UPON CRUSH, WK ODR, some soft white chalk carrying STN A/A, NO FO

Lm- Lt Gray, FXLN, dense, well cemented, massive, vry well cemented, high energy w/ fsl frag. poor vis. porosity, sctrd recrystallization

Lm- Lt Gray Buff, FXLN, massive, well cemented, oolitic w/ minimal effective porosity, much recrystallization, FEW PCS W/ SPOTTY STN, TR FO, NO ODR, much soft white chalk & few pcs of gray fresh bedded chert

Lm- Tan Cream Buff, VF-FXLN, dense, well cemented, mostly tight w/ minimal-poor vis. porosity, some sl chalky in part

Lm- Buff Tan, FXLN, poorly dev., chalky in part, most w/ poor XLN porosity, barren

HEEBNER 3352' (-1185) E-LOG 3352' (-1185) Sh- Black Gray Maroon, fissile, carbonaceous, gritty & earthy, gummy wash, silty & calcareous

Sh- A/A w/ increasing amount of wash

TORONTO 3379' (-1212) E-LOG 3375' (-1208) Lm- Cream Off White, F-MED XLN, oolitic w/ few fusulinids, some w/ sctrd recrystallization, sctrd fn ppt inter oolite & fsl porosity, SCTRD LT STN, SL OILY SHEEN (POSSIBLY WET), TR FO, FNT ODR, few pcs of vfxln w/o vis. porosity

20"- Lm- A/A w/ SL INCR. IN ODR, STN A/A, buff VF-FXLN, dense, vry well cemented, sl trashy & fsl, no vis. porosity

40"- Lm- oolitic & fusulinid ls A/A w/ pyrite inclusions, SL INCR. IN SFO, GD SULPHURIC ODR, FR-GD OIL SHEEN ON WET CUP, some sl fsl chert & sl dolomitic chert

60"- Lm- Cream Off White, FXLN, densely packed oolites, mod. well dev. inter oolite ppt porosity, LT BRWN STN, TR FO, GD SULPHURIC ODR, OILY SHEEN & SCUM ON WET CUP, some w/ sparry replacement cementation Sh- Lt Gray Maroon, silty & soft, gritty & earthy

LKC 3393' (-1226) E-LOG 3390' (-1223) Lm- White Off White, F-CRS XLN, med-large oolites & fusulinids, well dev. w/ GD inter fsl ppt porosity, loose-well cemented, some w/ recrystallization among porosity, LT SCTRD STN, SL SFO, MOD. ODR, GD SHEEN ON WET CUP, some sl chalky in part

Lm- Cream Off White, VF-FXLN, dense, few sl fsl, mostly vry clean, poorly dev. & tight, lithographic w/o vis. porosity to sctrd micro XLN & XLN porosity, barren, some sctrd recrystallization, drk gray cryptoXLN w/o vis. porosity

Sh- Black Lt Gray Maroon, fissile, carbonaceous, silty, gummy argillaceous clumps

Lm- Cream Tan, FXLN, oolitic, sl-mod. dev. w/ sctrd XLN & ppt inter oolite porosity, few w/ micro pyrite inclusions, few pcs w/ lithofied mud matrix, sctrd ppt porosity, ALL W/ LT SCTRD STN, TR FO, OILY SHEEN, WK-FR ODR

Sh- Gray Maroon Lm Green, silty & calcareous, dense, silty & soft

SHORT TRIP
SURVEY 1/2 dgr.
STRAP -1.71

DST #1
TORONTO
3351' - 3391'
(ALL PERF ON
BOTTOM)
30-30-30-30

2' OSPM
IFP: 16-17#
FFP: 18-19#
SIP: 378-263#
HYD: 1630-1608#
BHT: 95 dgr.

DST #2
LKC A - B
3387' - 3423'

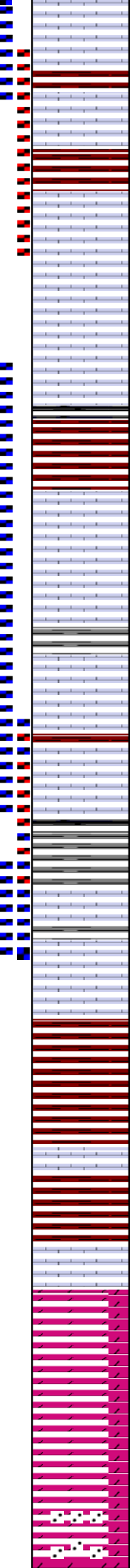
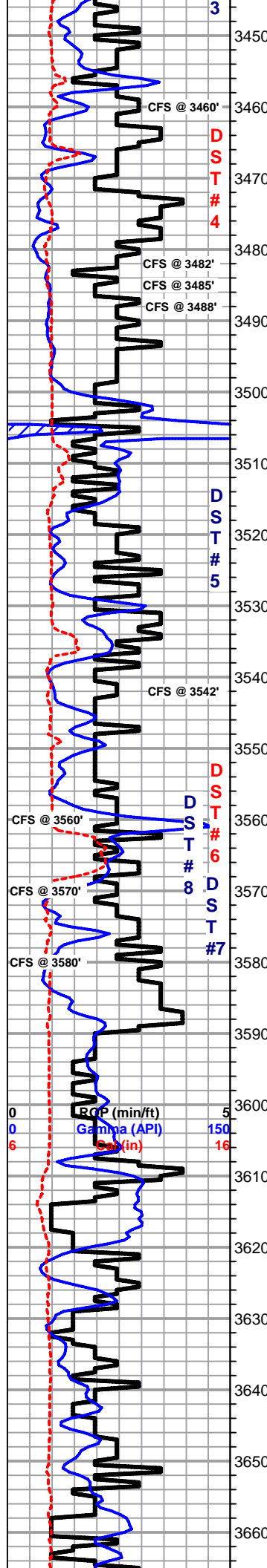
30-30-30-30
15' WCM
(30%W, 70%M)

IFP: 15-25#
FFP: 27-34#
SIP: 350-341#
HYD: 1649-1640#
BHT: 95 dgr.

DST #3
LKC C - D
3418' - 3460'

30-30-30-30
5' OSPM

IFP: 19-21#
FFP: 22-24#
SIP: 238-216#



Lm/Chert- Mix of F-MED XLN mod. well dev. oolitic ls w/ mostly consistent fn ppt interoolite porosity, LT SCTRD STN, NSFO, OILY SHEEN, FNT ODR, several pcs of weathered golden brown chert & milky white fresh bedded chert, & some dense, well cemented mud supported matrix, chalky in part
20"- Lm- incr. algal & mud supported matrix **40"-** Lm- VFXLN, dense w/ consistant micro XLN porosity, barren

Lm- Tan, VFXLN, dense, vry well cemented, massive, lithofied mud matrix, poorly dev. w/ few sctrd ppt porosity, WK SPOTTY STN, SL SFO, NO ODR,

Lm- Cream Off White, VFXLN, dense, most well cemented, few sl chalky in part, mostly tight w/ poor vis. porosity, some fsl cherty Ls w/o vis. porosity, soft white chalk
40"- A/A w/ increasing amount of soft chalk

3485"- Lm/Chert- Tan Cream, VFXLN, massive, vry well cemented, tight dolomitic ls & milky white fresh bedded chert, all w/ minimal vis. porosity, barren

3488"- Lm- White Off White, VF-FXLN, dense poorly dev. mix., few sl oolitic, well cemented w/ sctrd XLN porosity, barren **40"-** Lm- White Off White, VFXLN Vfr Grn, dense, tight, some sl chalky in part, no-poor vis. porosity, vry clean & barren

Lm- White Off White, VFXLN, sl fsl cherty ls/chert, some w/ sctrd recrystallization, poor vis. porosity, vry clean & barren

Sh- Black Maroon Gray Lm Green, fissile, carbonaceous, gritty & earthy, gummy lime

Lm- Cream Off White, FXLN, mostly dense, poorly dev. w/ dense vry fn ppt porosity, LT SCTRD STN, TR FO, few FXLN, oolitic, poorly dev. sctrd XLN porosity, WK SPOTTY STN, NSFO, ALL W/ WK ODR

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

Lm- Cream Tan, Crypto-FXLN, mix of tight sl cherty ls w/ sctrd ppt to vuggy porosity, recrystallization w/in por., SCTRD LT STN, SFO, & FXLN, mod. well dev. w/ consistant fn ppt porosity, mostly throughout, DRK STN, SFO, ALL W/ FR-GD SWEET ODR, GD OIL SCUM ON TOP OF WET CUP

Lm- Tan Cream, VF-FXLN, oolitic, ranging from few pcs w/ ppt to sub-vuggy interoolite porosity to sctrd XLN & micro XLN porosity, & some chalky w/ poor vis. porosity, LT SCTRD STN, TR FO, FNT ODR

Sh- Black Gray Maroon Lm Green, fissile, soft, carbonaceous, many gummy clumps, gritty & earthy

Lm- Tan Cream, VF-FXLN, sl oolitic, poorly dev. w/ dense-sctrd XLN porosity, WK SPOTTY STN, NSFO, NO ODR

3580" 20"- Lm- White Cream, F-MED XLN Vfr Grn, ranging from well dev. oolitic & fusulinid grainstone w/ GD consistant ppt porosity throughout w/ SCTRD DRK STN, TR FO, WK ODR, mod. dev. oolitic & fusulinids w/ sctrd ppt porosity, to tight mud supported matrix w/o vis. porosity
40"- Lm- A/A w/ increasing quality/quantity of show/stain, free oil, & odr, few pcs sub-sat w/ coarse recrystallization
60"- Lm- A/A w/ increasing amount of pearl shaped oolitic grainstone w/ GD consistant interoolite porosity throughout w/ STN & SFO A/A, SL INCR. IN ODR, less soft white chalk

3584"- Lm- White to Buff, VF-FXLN, sl fsl & oolitic, poorly dev. w/ sctrd XLN porosity, vry clean, 1-2 pcs w/ WK SPOTTY EDGE STN, NSFO, NO ODR, much soft white chalk
BKC 3588' (-1421) E-LOG 3588' (-1421) Sh- Maroon Gray Lm Green, sandy, gummy sandy lime, silty & pebbly, silty & calcareous

Lm- White, mix of sl unconsolidated & sediment spkld FXLN, poor vis. porosity, some w/ dense mud supported matrix, & several pcs of friable arenaceous ls w/ sctrd intergranular porosity, DRK SCTRD STN, NSFO, FNT ODR, SOME W/O FLOR., SOME W/ WK DULL YLW, NO STRM WET CUT

Sh- Maroon Gray, gritty & earthy, dense

Lm- Cream Off White, FXLN, fsl & sl oolitic w/ sctrd XLN porosity, 2-3 pcs W/ DRK SCTRD STN, TR FO, NO ODR UPON CRUSH

ARBUCKLE 3626' (-1459) E-LOG 3628' (-1461) Dol- Buff Cream, VF-FXLN, massive, mostly tight w/ micro XLN & sctrd fn ppt to mod. well dev. w/ ppt porosity throughout & anhedral rhombs, lesser dev. lacking stn, mod dev. w/ DRK SUB-SAT TO SAT STN, SL-FR SFO, WK-FR ODR, GD OIL SHEEN & SOME FLOATING FREE OIL ON TOP OF WET CUP

Dol- Cream, VFXLN, dense, vry well cemented, tight w/ poor micro XLN porosity

Dol- Buff Cream, Med-Crs XLN, massive, well dev. w/ consistant ppt porosity throughout, anhedral rhombs, DRK SAT STN, GD SFO, WK-FR ODR, HVY OIL SHEEN & MUCH FLOATING FREE OIL ON WET CUP

Dol- Tan, VF-FXLN, vry well cemented, mostly tight & poorly dev. w/ micro XLN porosity, some w/ sctrd XLN to fn ppt porosity, mostly barren, few pcs w/ WK SPOTTY STN, SOME W/ BLK DO STN, NSFO, NO ODR

Dol- Off White Cream Tan, mix of MED XLN, mod. well dev. w/ consistant fn ppt porosity, SCTRD STN, TR FO, OILY SHEEN, FNT ODR, mostly tight VF-FXLN, dense micro XLN to sctrd XLN porosity, barren, few pcs unconsolidated w/ fn-med sub-rounded to angular qtz.

HYD: 1677-1661#
 BHT: 65 dgr.

DST #4
 LKC E - F
 3452' - 3482'

30-60-30-60

202' MCW
 (10% M, 90% W)
 1' OIL CAP

IFP: 14-81#
 FFP: 83-111#
 SIP: 555-551#
 HYD: 1691-1679#
 BHT: 103 dgr.

DST #5
 LKC H-J
 3497' - 3560'

30-45-45-90

670' GIP
351' TOTAL FLUID
184' OCM
 (40% O, 60% M)
67' CLEAN OIL
 Gr: 38 API

IFP: 42-102#
 FFP: 108-124#
 SIP: 274-346#
 HYD: 1726-1666#
 BHT: 103 dgr.

SURVEY 3/4 dgr.

DST #6
 LKC K
 3547' - 3570'

30-30-30-30

5' SOCM
 (5% O, 95% M)

IFP: 11-12#
 FFP: 11-12#
 SIP: 19-17#
 HYD: 1780-1742#
 BHT: 97 dgr.

DST #7
 LKC L
 3567' - 3580'
 (MISRUN)

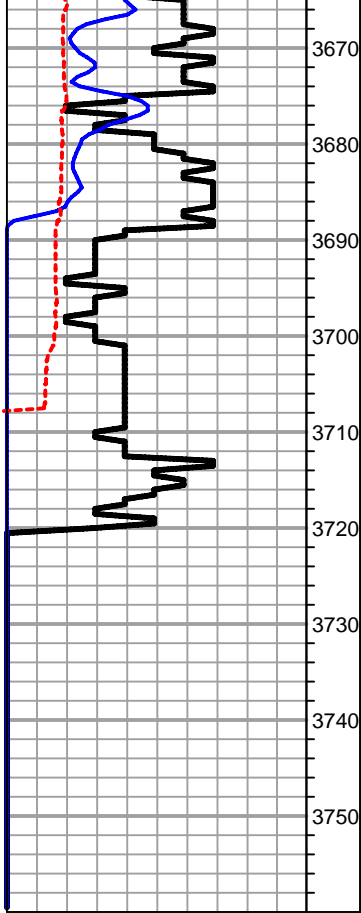
220' MUD

DST #8
 LKC L
 3547' - 3580'

30-60-45-60

50' GIP
10' CLEAN OIL
63' MCO
 (40% M, 60% O)

IFP: 16-31#
 FFP: 32-50#
 SIP: 663-650#



inclusions w/ solid dolomitic cementation, barren, & few pcs of FXLN sl oolitic dolomitic ls w/ dense XLN porosity, barren

Lm- White Off White, VFXLN, dense, tight w/ minimal vis. porosity, soft white chalk, unconsolidated w/ qtz inclusions A/A w/ glauconite

○ Dol- Tan, VF-FXLN, most sl unconsolidated w/ sub-rounded med qtz inclusions, dense XLN porosity, most well cemented, brittle, mostly barren, few pcs w/ BLK STN, FEW W/ SCTRD LT STN, NSFO, NODR

D
○ Dol- Clear to Frosted, med grn sandy dolomite, loosely cemented, spkld w/ glauconite, most well dev. w/ consistant intergranular porosity, mostly baren, FEW PCS W/ SCTRD BLK STN, NO SFO, FEW W/ LT SCTRD STN, NSFO, NO ODR


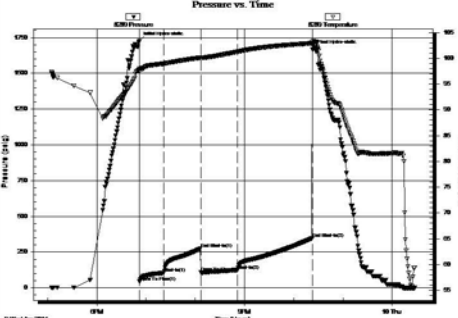
Dol- A/A w/ VFXLN, dense, vry well cemented, tight w/ sctrd to dense micro XLN porosity, barren


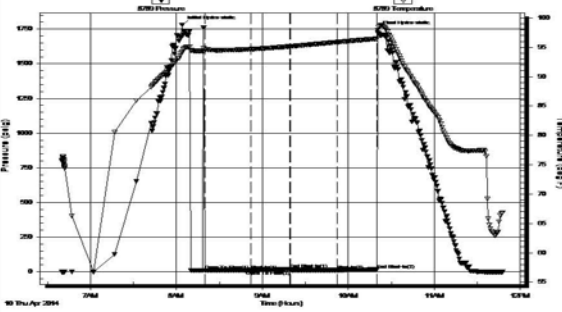
○ Dol- Cream/Salmon, F-CRSE XLN, massive, vry well cemented, most well dev. w/ GD consistant inter XLN porosity, euhedral to anhedral rhombs, SCTRD BKL DO STN, NO SFO, NODR, & salmon VFXLN, tight w/ minimal vis. porosity, barren


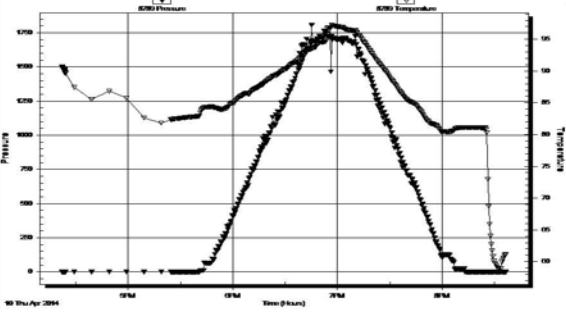
RTD 3720' (-1553) LTD 3719' (-1552) @ 11:11 4-11-2014


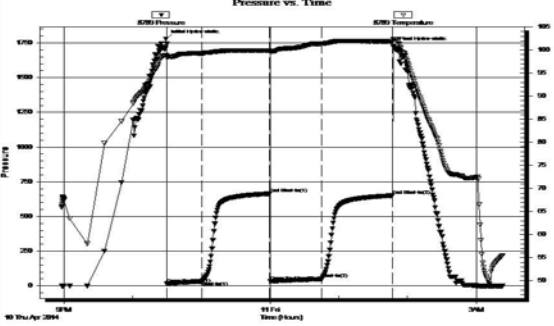
-  DST#5LKC_H_J.jpg
-  DST#6LKC_K.jpg
-  DST#7LKC_L.jpg
-  DST#8LKC_L.jpg

15 STND SHORT TRIP
CTCH 1 1/2 HR.
SURVEY 1 dgr.

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT Jasper Co. 8 7s 20w Rooks P. O. Box 1120 Roy # 1 Hays KS 67601 Job Ticket: 57589 DST#: 5 ATTN: Jeff Lawler Test Start: 2014.04.09 @ 17:05:00																																				
GENERAL INFORMATION: Formation: LKC " H - J " Deviated: No Whipstock: 2164.00 ft (KB) Test Type: Conventional Bottom Hole (Reset) Time Tool Opened: 18:52:15 Tester: Jim Svaty Time Test Ended: 00:28:00 Unit No: 76 Interval: 3497.00 ft (KB) To 3560.00 ft (KB) (TVD) Reference Elevations: 2164.00 ft (KB) Total Depth: 3560.00 ft (KB) (TVD) 2159.00 ft (CF) Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft																																					
Serial #: 8289 Outside Press@RunDepth: 124.03 psig @ 3532.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.09 End Date: 2014.04.10 Last Calib.: 2014.04.10 Start Time: 17:05:02 End Time: 00:28:00 Time On Btm: 2014.04.09 @ 18:52:00 Time Off Btm: 2014.04.09 @ 22:23:15																																					
TEST COMMENT: 30-IFP- BOB in 9 min. 45-ISIP- Surface Blow in 2 min. Died Back in 35 min. 45-FFP- BOB in 29 min. 90-FSIP- Surface Blow in 1 1/2 min. Died Back in 36 min.																																					
	PRESSURE SUMMARY <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1726.78</td><td>97.97</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>42.94</td><td>97.42</td><td>Open To Flow (1)</td></tr> <tr><td>30</td><td>102.61</td><td>98.96</td><td>Shut-In(1)</td></tr> <tr><td>75</td><td>274.66</td><td>100.11</td><td>End Shut-In(1)</td></tr> <tr><td>75</td><td>108.32</td><td>100.05</td><td>Open To Flow (2)</td></tr> <tr><td>120</td><td>124.03</td><td>101.25</td><td>Shut-In(2)</td></tr> <tr><td>211</td><td>346.32</td><td>102.91</td><td>End Shut-In(2)</td></tr> <tr><td>212</td><td>1666.08</td><td>103.16</td><td>Final Hydro-static</td></tr> </tbody> </table>	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1726.78	97.97	Initial Hydro-static	1	42.94	97.42	Open To Flow (1)	30	102.61	98.96	Shut-In(1)	75	274.66	100.11	End Shut-In(1)	75	108.32	100.05	Open To Flow (2)	120	124.03	101.25	Shut-In(2)	211	346.32	102.91	End Shut-In(2)	212	1666.08	103.16	Final Hydro-static
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 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT				
Jasper Co. P. O. Box 1120 Hays KS 67601 ATTN: Jeff Lawler	8 7s 20w Rooks Roy # 1 Job Ticket: 57533 DST#: 6 Test Start: 2014.04.10 @ 06:40:00				
GENERAL INFORMATION: Formation: LKC K Deviated: No Whipstock: 2164.00 ft (KB) Test Type: Conventional Bottom Hole (Reset) Time Tool Opened: 08:19:45 Tester: Tim Phillips Time Test Ended: 11:51:00 Unit No: 76 Interval: 3547.00 ft (KB) To 3570.00 ft (KB) (TVD) Reference Elevations: 2164.00 ft (KB) Total Depth: 3570.00 ft (KB) (TVD) 2159.00 ft (CF) Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft					
Serial #: 8789 Inside Press@RunDepth: 12.48 psig @ 3548.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.10 End Date: 2014.04.10 Last Calib.: 2014.04.10 Start Time: 06:40:02 End Time: 11:48:00 Time On Btm: 2014.04.10 @ 08:04:00 Time Off Btm: 2014.04.10 @ 10:20:30					
TEST COMMENT: IFF- Dead no blow ISI-Dead no blow back FF-Dead no blow FSI-Dead no blow back					
	PRESSURE SUMMARY				
	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	
	0	1780.09	94.16	Initial Hydro-static	
	16	11.66	94.32	Open To Flow (1)	
	48	12.19	94.69	Shut-In(1)	
	76	19.24	95.15	End Shut-In(1)	
	76	11.90	95.15	Open To Flow (2)	
	108	12.48	95.89	Shut-In(2)	
	136	17.28	96.47	End Shut-In(2)	
	137	1742.73	97.53	Final Hydro-static	
Recovery		Gas Rates			
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
5.00	SOCM 5%O, 95% M	0.02			

	DRILL STEM TEST REPORT																																
Jasper Co. P. O. Box 1120 Hays KS 67601 ATTN: Jeff Lawler	8 7s 20w Rooks Roy # 1 Job Ticket: 57534 DST#: 7 Test Start: 2014.04.10 @ 16:22:00																																
GENERAL INFORMATION: Formation: LKC L Deviated: No Whipstock: ft (KB) Time Tool Opened: Time Test Ended: 20:42:00 Interval: 3567.00 ft (KB) To 3580.00 ft (KB) (TVD) Total Depth: 3580.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good																																	
		Test Type: Conventional Bottom Hole (Reset) Tester: Tim Phillips Unit No: 76 Reference Elevations: 2164.00 ft (KB) 2159.00 ft (CF) KB to GR/CF: 5.00 ft																															
Serial #: 8789 Inside Press@RunDepth: psig @ 3574.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.10 End Date: 2014.04.10 Last Calib.: 2014.04.10 Start Time: 16:22:02 End Time: 20:36:45 Time On Btm: Time Off Btm:																																	
TEST COMMENT: Packer failure																																	
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 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																										
	Jasper Co. P. O. Box 1120 Hays KS 67601 ATTN: Jeff Lawler	8 7s 20w Rooks Roy # 1 Job Ticket: 57535 DST#: 8 Test Start: 2014.04.10 @ 20:58:00																																									
GENERAL INFORMATION: Formation: LKC KL Deviated: No Whipstock ft (KB) Time Tool Opened: 22:29:45 Time Test Ended: 03:24:00 Test Type: Conventional Bottom Hole (Reset) Tester: Tim Phillips Unit No: 76 Reference Elevations: 2164.00 ft (KB) 2159.00 ft (CF) KB to GR/CF: 5.00 ft Interval: 3547.00 ft (KB) To 3580.00 ft (KB) (TVD) Total Depth: 3580.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good																																											
Serial #: 8789 Inside Press@RunDepth: 50.13 psig @ 3548.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.04.10 End Date: 2014.04.11 Last Calib.: 2014.04.11 Start Time: 20:58:02 End Time: 03:23:15 Time On Btm: 2014.04.10 @ 22:29:00 Time Off Btm: 2014.04.11 @ 01:48:00																																											
TEST COMMENT: IFF- Blow built to 3.75 in ISI- Dead no blow back FF- Blow built to 4 in FSI- Dead no blow back																																											
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