

# JASPAR COMPANY INC.

Scale 1:240 Imperial

Well Name: FISCHLI #1  
Surface Location: SW NW NE SW Sec. 5 - 7S - 20W  
Bottom Location:  
API: 15-163-24149-00-00  
License Number: 34903  
Spud Date: 10/31/2013 Time: 3:15 AM  
Region: ROOKS COUNTY, KS  
Drilling Completed: 11/6/2013 Time: 12:39 AM  
Surface Coordinates: 2110' FSL & 1560' FWL  
Bottom Hole Coordinates:  
Ground Elevation: 2208.00ft  
K.B. Elevation: 2213.00ft  
Logged Interval: 3000.00ft To: 3802.00ft  
Total Depth: 3797.00ft  
Formation: TORONTO, LANSING - KANSAS CITY  
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

## OPERATOR

Company: JASPAR COMPANY, INC.  
Address: 1681 LIMESTONE ROAD SOUTH  
P.O. BOX 1120  
HAYS, KS  
Contact Geologist: SHANE VEHIGE  
Contact Phone Nbr: (785) 623-6982  
Well Name: FISCHLI #1  
Location: SW NW NE SW Sec. 5 - 7S - 20W API: 15-163-24149-00-00  
Pool: UNNAMED  
State: KANSAS Country: USA

## SURFACE CO-ORDINATES

Well Type: Vertical  
Longitude: -99.5783957 Latitude: 39.4723674  
N/S Co-ord: 2110' FSL  
E/W Co-ord: 1560' FWL

## 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: WW DRILLING, LLC  
Pic #: 6

Rig #: 0  
 Rig Type: MUD ROTARY  
 Spud Date: 10/31/2013  
 TD Date: 11/6/2013  
 Rig Release: 11/6/2013

Time: 3:15 AM  
 Time: 12:39 AM  
 Time: 10:00 PM

### ELEVATIONS

K.B. Elevation: 2213.00ft  
 K.B. to Ground: 5.00ft

Ground Elevation: 2208.00ft

### NOTES

DUE TO ECONOMICAL RECOVERY ON DST #2, STRUCTURAL POSITION, AND LOG ANALYSIS DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING AND FURTHER EVALUATE WITH PERFORATION.


SAMPLES WERE SAVED AND WILL BE SENT TO AND AVAILABLE AT KANSAS GEOLOGICAL SURVEY SAMPLE REPOSITORY.

RESPECTFULLY SUBMITTED,  
 JEFF LAWLER

### WELL COMPARISON SHEET

FORMATION	FISCHLI #1				RITCHIE EXPLORATION				BOWMAN OIL COMPANY				BAIRD OIL COMPANY, LLC				BOWMAN OIL COMPANY			
	KB		GL		KB		W2 E2 SW 5-7-20		R.A. BENOIT #1		NW SW NE NW 5-7-20		ROY-FISCHLI UNIT #1-8		DEAN LESAGE #2		SE NE SW NE 8-7-20			
	2213		2208		2205		2230		2211		2214									
	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	DEPTH	DATUM	
ANHYDRITE TOP	1803	410	1799	414	1795	410	+ 0	+ 4	1815	415	- 5	- 1	1789	422	- 12	- 8	1786	428	- 18	- 14
BASE	1834	379	1831	382	1825	380	- 1	+ 2					1825	386	- 7	- 4	1818	396	- 17	- 14
TOPEKA	3201	-988	3200	-987	3196	-991	+ 3	+ 4	3206	-976	- 12	- 11	3183	-972	- 16	- 15	3187	-973	- 15	- 14
HEEDNER SHALE	3405	-1192	3399	-1186	3400	-1195	+ 3	+ 9	3410	-1180	- 12	- 6	3394	-1183	- 9	- 3	3383	-1169	- 23	- 17
TORONTO	3428	-1215	3422	-1209	3422	-1217	+ 2	+ 8					3414	-1203	- 12	- 6				
LKC	3441	-1228	3436	-1223	3436	-1231	+ 3	+ 8	3446	-1216	- 12	- 7	3431	-1220	- 8	- 3	3414	-1200	- 28	- 23
BKC	3635	-1422	3631	-1418	3630	-1425	+ 3	+ 7	3638	-1408	- 14	- 10	3622	-1411	- 11	- 7	3617	-1403	- 19	- 15
MARMATON	3658	-1445	3652	-1439																
ARBUCKLE	3722	-1509	3722	-1509	3722	-1517	+ 8	+ 8	3676	-1446	- 63	- 63	3663	-1452	- 57	- 57	3650	-1436	- 73	- 73
TOTAL DEPTH	3802	-1589	3797	-1584	3725	-1520	- 69	- 64	3710	-1480	- 109	- 104	3705	-1494	- 95	- 90	3672	-1458	- 131	- 126

### DST #1 TORONTO - LKC A 3398' - 3452'



**TRILOBITE TESTING, INC.**

### DRILL STEM TEST REPORT

Jasper Co. **5-7s-20w Rooks**

PO Box 1120  
Hays Ks. 67601

ATTN: Jeff Lawler

**Fischli #1**

Job Ticket: 54333 **DST#: 1**

Test Start: 2013.11.03 @ 23:15:01

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**GENERAL INFORMATION:**

Formation: **Tor-LKC"A"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:52:00  
 Time Test Ended: 06:07:30

Interval: **3398.00 ft (KB) To 3452.00 ft (KB) (TVD)**  
 Total Depth: 3452.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2213.00 ft (KB)  
 2208.00 ft (CF)  
 KB to GR/CF: 5.00 ft

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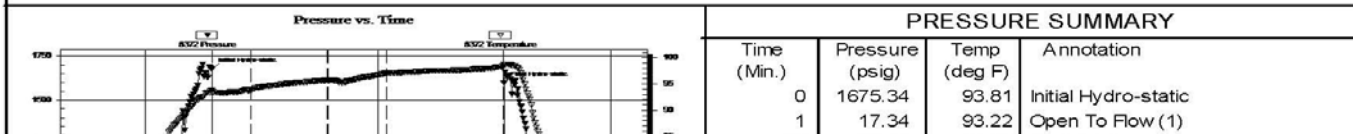
**Serial #: 8372 Inside**

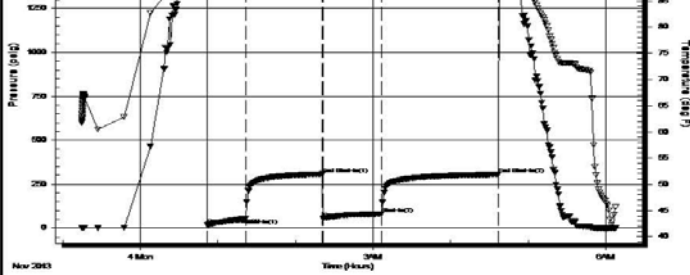
Press@RunDepth: 80.87 psig @ 3405.00 ft (KB)  
 Start Date: 2013.11.03 End Date: 2013.11.04  
 Start Time: 23:15:01 End Time: 06:07:30

Capacity: 8000.00 psig  
 Last Calib.: 2013.11.04  
 Time On Btm: 2013.11.04 @ 00:51:30  
 Time Off Btm: 2013.11.04 @ 04:37:30

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**TEST COMMENT:** IF:(30min) 1" blow in 5 min. 2" in 13 min. Built to 13 min.  
 ISI:(60min) No Return  
 FF:(45min) Surface blow in 7 min. 1" in 28 min. Built to 1.75"  
 FSI:(90min) No Return





30	53.46	93.80	Shut-In(1)
90	307.81	95.73	End Shut-In(1)
90	54.76	95.59	Open To Flow (2)
135	80.87	97.03	Shut-In(2)
226	305.77	98.36	End Shut-In(2)
226	1596.70	98.76	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
140.00	Mud w/ oil spks in tool	0.86

**Gas Rates**

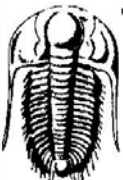
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 54333

Printed: 2013.11.04 @ 06:51:55

**DST #2 LKC C - D 3454' - 3500'**



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Jasper Co. **5-7s-20w Rooks**

PO Box 1120 **Fischli #1**  
Hays Ks. 67601

Job Ticket: 54334 **DST#: 2**

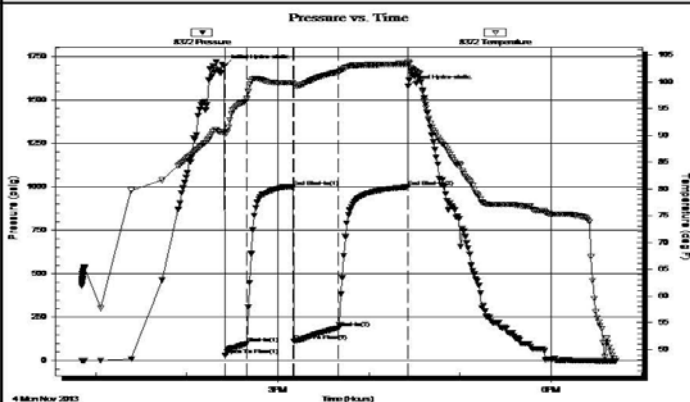
ATTN: Jeff Lawler **Test Start: 2013.11.04 @ 12:51:01**

**GENERAL INFORMATION:**

Formation: **LKC"C-D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:25:30  
 Time Test Ended: 18:43:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Andy Carreira  
 Unit No: 68  
 Interval: **3454.00 ft (KB) To 3500.00 ft (KB) (TVD)**  
 Total Depth: 3500.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Reference Elevations: 2213.00 ft (KB)  
 2208.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8372 Inside**  
 Press@RunDepth: 189.62 psig @ 3459.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.04 End Date: 2013.11.04 Last Calib.: 2013.11.04  
 Start Time: 12:51:01 End Time: 18:43:00 Time On Btm: 2013.11.04 @ 14:25:00  
 Time Off Btm: 2013.11.04 @ 16:26:00

**TEST COMMENT:** IF:(15min) BOB in 5 min.  
 ISl:(30min) Return blow 30 sec after bleed off. Built to BOB in 25 min.  
 FF:(30min) BOB immediately.  
 FSl:(45min) Return blow immediately after bleed off. Built to BOB in 12 min.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1695.66	90.70	Initial Hydro-static
1	31.89	90.27	Open To Flow (1)
15	98.85	96.84	Shut-In(1)
45	1000.64	99.82	End Shut-In(1)
46	112.98	99.44	Open To Flow (2)
75	189.62	101.86	Shut-In(2)
121	999.15	103.36	End Shut-In(2)
121	1579.50	103.75	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	HOCGM α=20% o=20% m=60%	0.59

**Gas Rates**

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

360.00	CGO g=15% o=85%	5.04


\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 54334

Printed: 2013.11.04 @ 23:02:47

### DST #3 LKC E - F 3501' - 3525'

 <b>TRILOBITE TESTING, INC.</b>	<b>DRILL STEM TEST REPORT</b>	
	Jasper Co. PO Box 1120 Hays Ks. 67601 ATTN: Jeff Lawler	<b>5-7s-20w Rooks</b> <b>Fischli #1</b> Job Ticket: 54335 <b>DST#: 3</b> Test Start: 2013.11.05 @ 01:21:01

**GENERAL INFORMATION:**

Formation: **LKC"EF"**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 03:15:30  
 Time Test Ended: 08:16:30

**Interval: 3501.00 ft (KB) To 3525.00 ft (KB) (TVD)**

Total Depth: 3525.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Andy Carreira  
 Unit No: 68

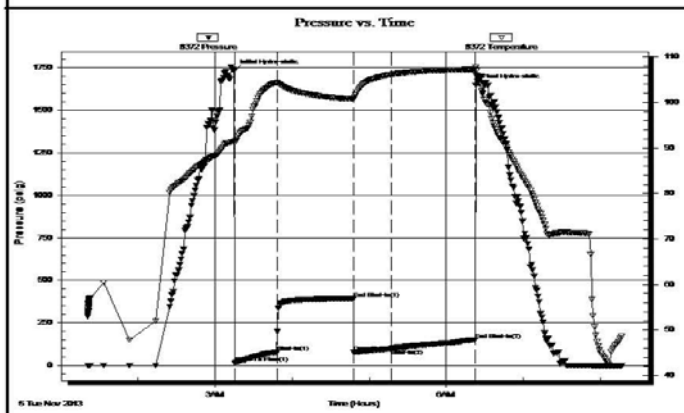
Reference Elevations: 2213.00 ft (KB)  
 2208.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8372      Inside**

Press@RunDepth: 98.46 psig @ 3502.00 ft (KB)  
 Start Date: 2013.11.05      End Date: 2013.11.05  
 Start Time: 01:21:01      End Time: 08:16:30

Capacity: 8000.00 psig  
 Last Calib.: 2013.11.05  
 Time On Btm: 2013.11.05 @ 03:15:00  
 Time Off Btm: 2013.11.05 @ 06:23:00

**TEST COMMENT:** IF:(30min) 2" blow in 5 min. 4" in 14 min. Built to 7"  
 ISl:(60min) No Return  
 FF:(30min) 2" blow in 14 min. Built to 4"  
 FSl:(60min) No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.80	91.46	Initial Hydro-static
1	15.80	91.07	Open To Flow (1)
33	78.98	104.23	Shut-In(1)
93	393.45	100.79	End Shut-In(1)
93	77.41	100.66	Open To Flow (2)
123	98.46	106.14	Shut-In(2)
188	151.19	107.24	End Shut-In(2)
188	1644.70	107.83	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
260.00	MW	2.54

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 54335

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

### ROCK TYPES

Cht	Lmst fw<7	shale, grn	Shblk
Congl	Lmst fw>7	shale, gry	shale, red
Dolprim	Dol Lime	Carbon Sh	Ss

### ACCESSORIES

#### MINERAL

• Sandy

#### FOSSIL

◇ Oolite

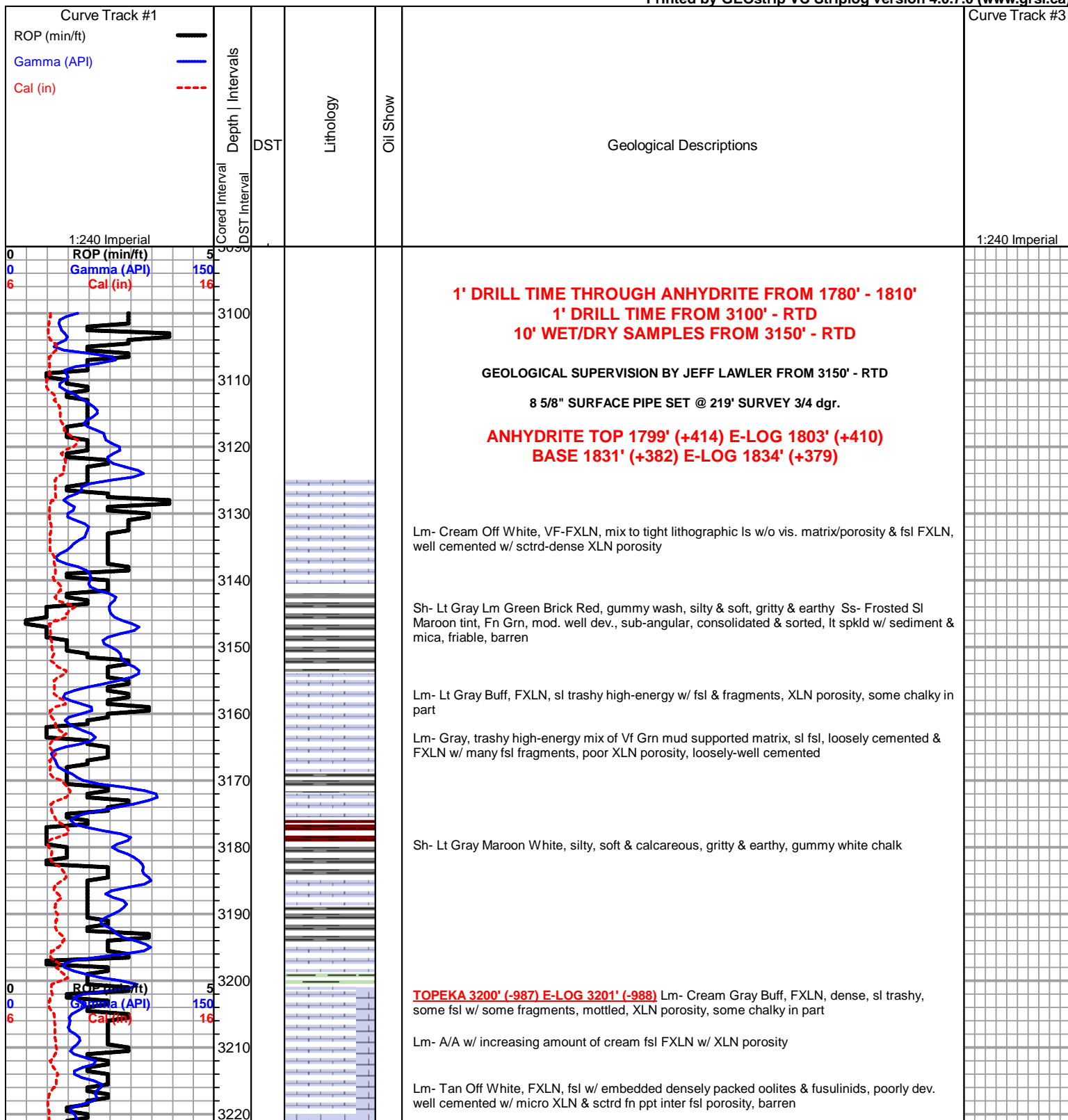
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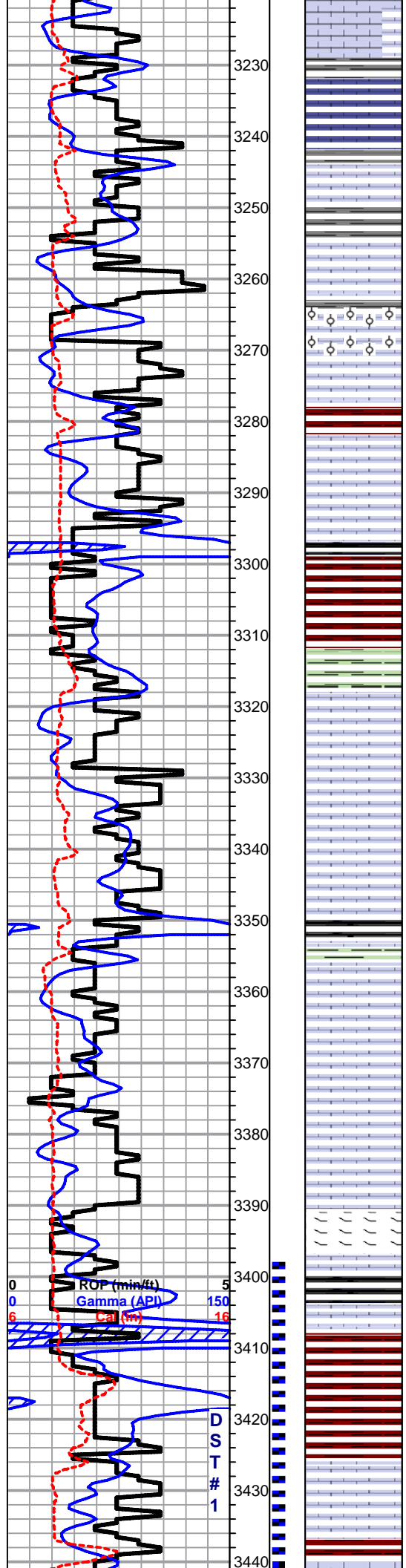
#### DST

■ DST Int

■ DST alt

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





Lm- Cream, Vf Grn, dense, sl fsl mud supported matrix, poor intergranular vis. porosity

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

Lm- Drk & Lt Gray, mix of vf grn mud supported matrix & vfxln, all high-energy, fsl & poor vis. porosity, trashy

Lm- Cream Tan, Vf Grn, siltstone, dense, loosely cemented, some chalky in part, no vis. porosity

Lm- Cream Off White, FXLN, dense, loosely cemented, fsl & poorly dev., chalky, micro XLN at best, barren, massive pyrite pcs

Lm- Cream Off White, FXLN, poorly dev. fsl & sl oolitic, loosely-well cemented, mostly consistant vry fn ppt interoolite porosity, clean & barren, pcs of smokey white fresh bedded fsl chert

Lm- Buf Tan, CryptoXLN, dense cherty ls w/o vis. porosity, some vitreous

Lm- Cream Buff, VF-FXLN, dense, most well cemented, some loosely cemented & sl chalky, fsl w/ micro XLN & XLN porosity, barren

Sh- Black Lm Green Maroon, soft, gritty, carbonaceous, lm green wash, gritty & earthy

Sh- Maroon Lm Green White, soft, sl sandy wash

Lm- Cream Tan Buff, FXLN, sl fsl, poorly dev. w/ XLN porosity, mottled, barren

Lm- Cream Off White, VF-FXLN, dense, loosely cemented & chalky, micro pyrite inclusions, poor vis. porosity, vry clean

Lm- Cream Tan, FXLN, mix of tight sl dolomitic ls & fsl FXLN ls, all poorly dev. w/ XLN porosity, well cemented, barren

Sh- Black Brown Lm Green, soft, fissile, carbonaceous, gritty & earthy, gummy lm green lime

Lm- Cream Tan, FXLN, dense, fsl & sl oolitic, poorly & inconsistently dev. w/ micro XLN to XLN porosity, mostly barren, few pcs w/ WK DRK SCTRDR STN ALONG EDGE PLANES, 2-3 PCS W/ HVY & SUB-TARRY STN, SL TR OF FO, NO ODR

Lm- Cream, FXLN, fsl & sl unconsolidated & spkld, poor vis. porosity, barren

Lm- Cream Tan, FXLN, fsl, dense, poorly dev. w/ XLN porosity & med-crs secondary recrystallization porosity, barren, ?? WK TR ODR ??, FEW PCS OF OREAD IN SAMPLE W/ STN A/A

Lm- Lt Gray, Vf Grn VF-FXLN, dense, sl chalky in part, some mud supported matrix, all w/ poor vis. porosity, barren

Lm- Tan, Tan, VF-FXLN, dense dolomitic ls, sub-sucrosic, consistant micro XLN porosity, throughout, NO VIS. STN, NSFO, WK ODR, WK LT YLW HALO FLOR.

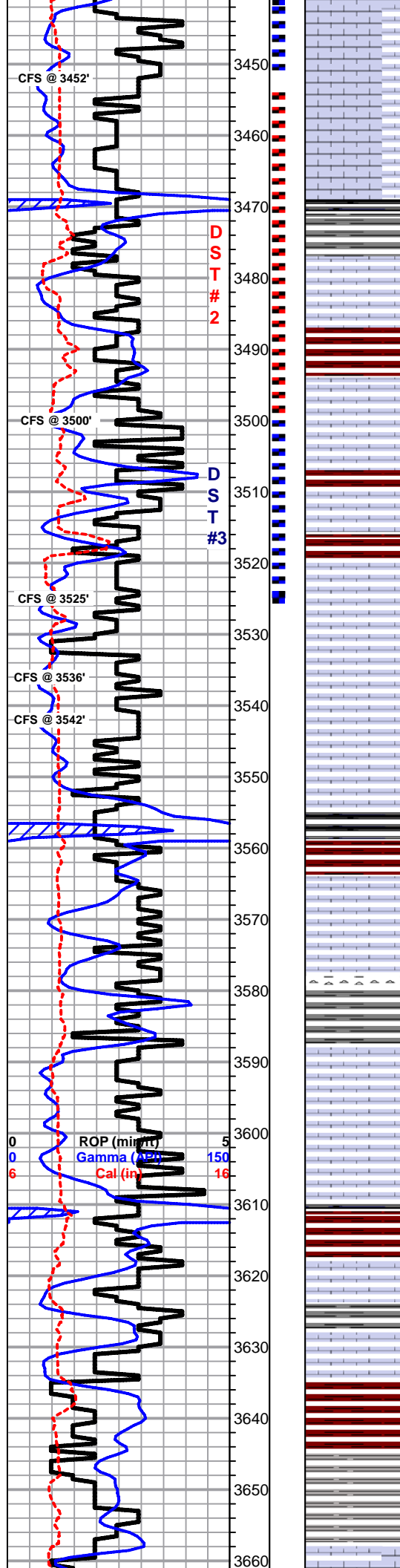
**HEEBNER 3399' (-1186) E-LOG 3405' (-1192)** Sh- Black Maroon, silty & soft, carbonaceous, gritty & earthy

Sh- Maroon, gritty & earthy, maroon wash

**TORONTO 3422' (-1209) E-LOG 3428' (-1215)** Lm- Cream Tan, VF-FXLN, mix of fsl ls w/ XLN porosity, & dense, vry well cemented, massive dolomitic sl cherty ls, poorly dev. w/ sctrdr dense vry fn ppt porosity, few sctrdr crs recrystallized inclusions, SCTRDR DRK STN, SFO UPON CRUSH, WK ODR

SHORT TRIP SURVEY 1/4 dgr.  
DST #1  
TORONTO - LKC A  
3398' - 3452'





**LKC 3436' (-1223) E-LOG 3441' (-1228)** Lm- Cream Off White, F-Med XLN, fsl & oolitic, mod. dev. w/ inter fsl XLN porosity & sctrd ppt porosity, some of lesser dev. pcs w/ recrystallization w/in porosity, SCTRD LT BRWN STN, SL FLAKEY, TR GSY FO, GD SULFURIC ODR

Lm- White Off White, VF-FXLN, dense, sl fsl, mostly tight, micro XLN & sctrd XLN porosity, some soft white chalk, vry clean & barren

Sh- Black Drk Gray Maroon Lm Green, fissile, carbonaceous, dense & blocky, silty & calcareous

Lm- Tan, VF-FXLN, well cemented, sub-sucrosic, mod well dev. w/ consistant porosity throughout, LT BRWN STN, FR SFO, GD ODR, mixed w/ white off white VF-FXLN, dense, fsl w/ XLN porosity & some soft white chalk

Sh- Maroon, gritty & earthy

Lm- Off White Cream, FXLN, vry well cemented, fsl & sl dev. w/ sctrd ppt & XLN porosity, WK SCTRD STN, NSFO, TR ODR

Lm- Tan, VFXLN, dense, vry well cemented, tight sl cherty ls w/ limited micro XLN porosity

Lm- White Off White, mix of VF-FXLN & Vf Grn, dense, sl fsl, mostly tight w/ micro XLN porosity, some mud supported matrix & dense soft white chalk, all vry clean

Lm- Cream Off White, FXLN, dense, well cemented, sctrd dev. w/ vry fn to fn ppt porosity, LT SCTRD STN, TR FO, WK ODR, some soft lt lm green mud supported matrix w/ poor vis. porosity

Lm/Chert- White Off White, VFXLN, dense, loosely cemented & chalky to poorly dev. & well cemented, sl fsl, micro XLN & XLN porosity, vry clean & barren, pcs of milky white sl fsl fresh bedded angular chert, some w/ sl dolomitic ls contact, all barren

Lm- White Off White, FXLN Fn Grn, poorly dev. sl fsl, mostly tight w/ sctrd XLN porosity, some soft white chalk, vry clean, barren

Lm- A/A

Sh- Black Maroon Lt Gray, dense & vry well compacted, fissile, carbonaceous, gritty & earthy, silty & sl calcareous

Lm- Cream Tan, VF-FXLN, sl fsl w/ fusulinids, poorly dev, mostly tight w/ micro XLN & XLN porosity, barren, few pcs w/ increased dev. porosity A/A w/ sctrd vry fn ppt inter fsl porosity, WK SPOTTY STN, NSFO, WK TR ODR

Lm/Chert- A/A & chalky, some cream/tan fsl fresh bedded chert

Sh- Dove Gray Maroon, vry soft, calcareous, some sl sandy lime, gritty & earthy

Lm- Cream Tan, mix of VF & FXLN, most fsl & loosely cemented to chalky in part, mod. dev. w/ sctrd-dense fenestral porosity, barren, & vry well cemeneted, fsl w/ fusulinids, mod. dev. w/ dense vry fn inner fsl porosity, DRK BRWN STN, SFO, FR ODR

Lm- Cream, VF-FXLN, sl fsl, sctrd dev. mostly tight w/ minimal vis. porosity, areas of dense micro XLN & vry fn ppt porosity, sl chalky in part, LT BRWN STN, SL FLAKEY, WK TR FO, FR ODR, FR OIL SCUM ON WET CUP

Sh- Maroon Black, gritty & earthy, some maroon wash, 2-3 pcs of lt black, silty & vry soft

Lm- Tan, FXLN, sl fsl, mod. dev. w/ XLN porosity, loosely cemented, LT BRWN STN, SL SFO, WK-FR ODR

Lm- White Off White, Vf Grn FXLN, mix of fsl & oolitic FXLN, mod. dev. w/ sctrd ppt interoolite porosity & dense mud supported matrix, loosely cemented, DRK BRWN STN, NSFO, FR-GD ODR, some oolitic FXLN w/ reworked appearance & vry dense micro XLN porosity, barren

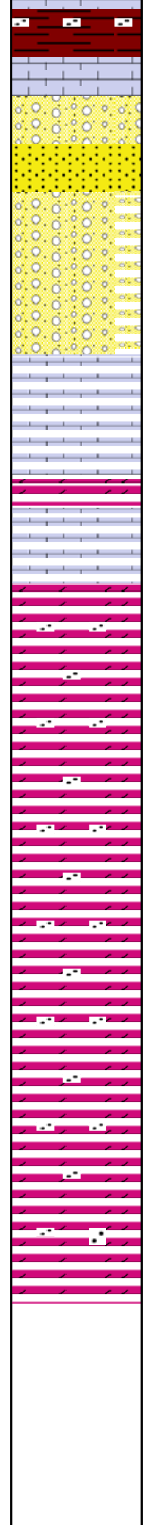
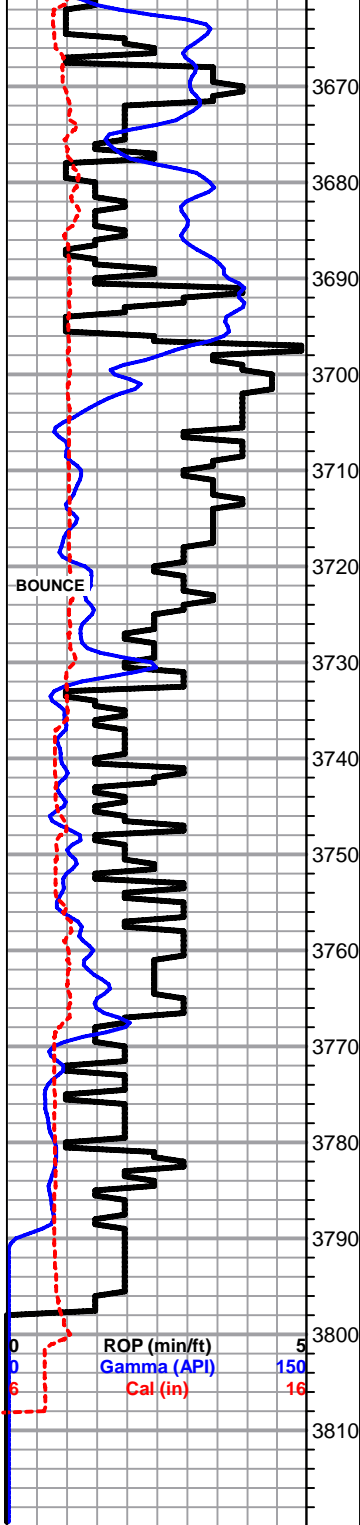
**BKC 3631' (-1418) E-LOG 3635' (-1422)** Sh- Maroon Lm Green, shaley maroon Ss & sandy lime, some wash, sl waxy & dense

Sh- A/A, w/ gray wash & silty gray shale

**MARMATON 3652' (-1439) E-LOG 3658' (-1445)** Lm- White, FXLN Vf Grn, dense, loosely cemented, sl fsl, XLN porosity, much soft white chalk, vry clean, barren

DST #2  
LKC C - D  
3454' - 3500'

DST #3  
LKC E - F  
3501' - 3525'



D  
Ss/Snd- Much gummy argillaceous red clumps & wash, Snd- Clear, Med Grn, well sorted & consolidated, mature & rounded to sub-rounded, loosely cementation, BLK DO STN, NSFO, NO ODR

● Conglomerate- Various dark colored shales Sand- A/A, some unconsolidated & shaley, DRK BRWN STN, GD SFO Dolomite- Cream Tan, some tinted w/ shale & conglomerate, FXLN, well dev. w/ good porosity mostly throughout, some sucrosic, SAT-BLEEDING STN, GD SFO, NO ODR, GD-VRY GD SCUM OF FREE OIL ON TOP OF WET CUP, some fresh bedded angular chert

Lm- White, VF-FXLN, dense, loosely-well cemented, micro XLN & XLN porosity, vry clean, barren

Dolomite- Cream Tan, VFXLN, dense, vry well cemented, poorly dev., mostly tight w/ micro XLN porosity, barren

Lm- White Off White, VFXLN, dense, vry well cemented, sl sandy ls, lt spkld w/ glauconite/chlorite, poor vis. porosity, some sl chalky & soft, vry clean, barren

**ARBUCKLE 3722' (-1509) E-LOG 3722' (-1509)** Dol- Cream Tan White, mix of VFXLN, dense, vry well cemented & poorly dev. w/ micro XLN porosity & loosely white dolomite w/ clean frmed qtz. inclusions & spkld w/ glauconite, all vry clean & barren

● Dolomite- Cream Off White, Med-Crse XLN, sandy dolomite A/A, mod-well dev w/ micro XLN & ppt porosity, spkld w/ glauconite, MOSTLY BARREN POROSITY, SEVERAL PCS W/ DRK SCTRD STN, NSFO, NO ODR

Dolomite- Tan Cream, VFXLN, dense, vry well cemented, mostly tight w/ micro XLN porosity, barren, much soft white chalk

○ Dolomite- White Off White, Med-Crs XLN, sandy, loosely cemented & friable, vry well dev., some w/ sub-euhedral rhombs, spkld w/ glauconite, much barren porosity, several pcs w/ SCTRD DRK STN, NSFO, NO ODR, soft white chalk A/A

Dolomite- Tan Lt Salmon tint, VF-FXLN, dense, poorly dev., mostly tight sl cherty dolomite w/ micro XLN & sctrd XLN porosity, barren

Dolomite- Cream Tan, VF-FXLN, sandy w/ decreasing qtz content, rounded to sub-rounded inclusions, most well cemented, some lt spkld w/ glauconite, poorly dev. barren

● Dolomite- Cream Semi-Frosted, Med-Crs Grn, increasing qtz content, minimal cementation, friable, mod-hvy spkld w/ glauconite & w/ pyrite inclusions, many barren cluster, some w/ BLK & LT BRWN STN, 1-2 PCS W/ SL SFO, NO ODR

○ Dolomite- Cream Off White, VF-FXLN, dense, poorly dev. some w/ qtz inclusions, poor XLN porosity, barren, few lt spkld w/ glauconite

**RTD 3797' (-1584) LTD 3802' (-1589) @ 12:39 11/6/2013**

10 STAND MINI  
TRIP  
CTCH  
SURVEY 3/4 dgr.  
TOH FOR LOG