Scale 1:240 Imperial

Well Name:	VANLOENEN UNIT #1		
Surface Location:	SW SE NE SE Sec. 35 - 4S - 21W		
Bottom Location:			
API:	15-137207029-00-00		
License Number:	34916		
Spud Date:	11/25/2014	Time:	2:00 PM
Region:	NORTON COUNTY KANSAS		
Drilling Completed:	11/30/2014	Time:	4:12 AM
Surface Coordinates:	1340' FSL & 660' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1996.00ft		
K.B. Elevation:	2001.00ft		
Logged Interval:	2850.00ft	To:	3490.00ft
Total Depth:	3490.00ft		
Formation:	LANSING - KANSAS CITY		
Drilling Fluid Type:	FRESH WATER / CHEMICAL GEL		

OPERATOR

Company:	FOURWINDS OIL CORPORATION		
Address:	P.O. BOX 1063 HAYS, KS 67601		
Contact Geologist:	DANIEL WINDHOLZ		
Contact Phone Nbr:	(785) 259-8403		
Well Name:	VANLOENEN UNIT #1		
Location:	SW SE NE SE Sec. 35 - 4S - 21W		
API:	15-137207029-00-00		
Pool:		Field:	WILDCAT
State:	KANSAS	Country:	USA

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.6489994
Latitude:	39.6578568
N/S Co-ord:	1340' FSL
E/W Co-ord:	660' FEL

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:	11/25/2014	Time:	2:00 PM
TD Date:	11/30/2014	Time:	4:12 AM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation: 2001.00ft Ground Elevation: 1996.00ft
K.B. to Ground: 5.00ft

NOTES

WELL COMPARISON SHEET

					•						SWDW				¤				¤			
					BLACK DIAMOND OIL, INC.						BLACK DIAMOND				BLACK DIAMOND				HINKLE OIL COMPANY			
					STATES AG 1-36						SATES AG 2-36				MORRIS UNIT				WILTROUT #1			
	VANLOENEN UNIT #1				S2 NE SE NW 36-4-21						NW SW SW NE 36-4-21				S2 SW SW SE 2-5-21				NW NW NW 35-4-21			
	KB	2001	GL	1996	KB	2077					KB	2043			KB	1992			KB	2063		
	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	1595	406	1594	407	1674	403	+	3	+	4	1636	407	-	1	+ 0	1569	423	-	17	- 16	1690	373	+	33	+	34
BASE	1627	374	1625	376	1700	377	-	3	-	1	1668	375	-	1	+ 1	1605	387	-	13	- 11						
TOPEKA	2974	-973	2978	-977	3052	-975	+	2	-	2	3017	-974	+	1	- 3	2963	-971	-	2	- 6						
HEEBNER SHALE	3180	-1179	3179	-1178	3259	-1182	+	3	+	4	3233	-1190	+	11	+ 12	3163	-1171	-	8	- 7	3260	-1197	+	18	+	19
TORONTO	3207	-1206	3206	-1205	3287	-1210	+	4	+	5	3258	-1215	+	9	+ 10	3189	-1197	-	9	- 8						
LKC	3227	-1226	3221	-1220	3303	-1226	+	0	+	6	3276	-1233	+	7	+ 13	3205	-1213	-	13	- 7	3287	-1224	-	2	+	4
BKC	3419	-1418	3419	-1418	3492	-1415	-	3	-	3	3464	-1421	+	3	+ 3	3396	-1404	-	14	- 14						
CONGLOMERATE																										
ARBUCKLE			3471	-1470	3553	-1476			+	6						3451	-1459			- 11	3565	-1502			+	32
TOTAL DEPTH	3490	-1489	3490	-1489	3595	-1518	+	29	+	29	3488	-1445	-	44	- 44	3510	-1518	+	29	+ 29	3627	-1564	+	75	+	75

DST #1 LKC E 3278' - 3290'

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Fourwinds Petro Corp

PO Box 1063
Hays KS 67601

ATTN: Jeff Lawler

35 4 21 Norton KS

Vanloenen Unit 1

Job Ticket: 62605 **DST#: 1**

Test Start: 2014.11.29 @ 04:00:00

GENERAL INFORMATION:

Formation: **LKC "E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:00:00
Time Test Ended: 10:18:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Robert Zodrow
Unit No: 49

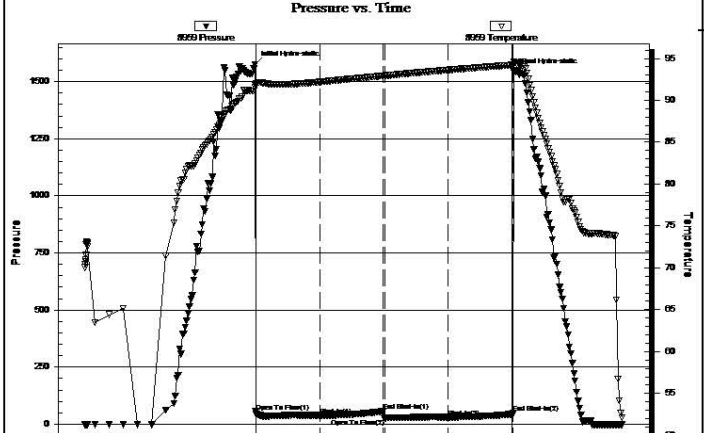
Interval: 3278.00 ft (KB) To 3290.00 ft (KB) (TVD)
Total Depth: 3290.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2001.00 ft (KB)
1999.00 ft (CF)
KB to GR/CF: 2.00 ft

Serial #: 8959 **Outside**
Press@RunDepth: 31.17 psig @ 3279.00 ft (KB)
Start Date: 2014.11.29 End Date: 2014.11.29
Start Time: 04:00:05 End Time: 10:17:59

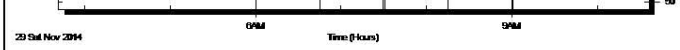
Capacity: 8000.00 psig
Last Calib.: 2014.11.29
Time On Btm: 2014.11.29 @ 05:59:30
Time Off Btm: 2014.11.29 @ 09:01:30

TEST COMMENT: 45-IF- Blow built to 1/4" died back to surface
45-ISI- No return
45-FF- No blow
45-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1574.58	91.59	Initial Hydro-static
1	55.82	91.74	Open To Flow (1)
46	39.26	92.20	Shut-In(1)
90	56.12	92.93	End Shut-In(1)
91	25.81	92.94	Open To Flow (2)
136	31.17	93.62	Shut-In(2)
182	48.48	94.23	End Shut-In(2)
182	1540.26	94.63	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w / oil spots 100%M	0.02

Gas Rates

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

DST #2 LKC C - E 3235' - 3290'

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Fourw inds Petro Corp

PO Box 1063
Hays KS 67601

ATTN: Jeff Law ler

35 4 21 Norton KS

Vanloenen Unit 1

Job Ticket: 62606 **DST#: 2**

Test Start: 2014.11.29 @ 10:54:00

GENERAL INFORMATION:

Formation: **LKC "C--E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:20:00
Time Test Ended: 16:45:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Robert Zodrow
Unit No: 49

Interval: 3235.00 ft (KB) To 3290.00 ft (KB) (TVD)
Total Depth: 3290.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

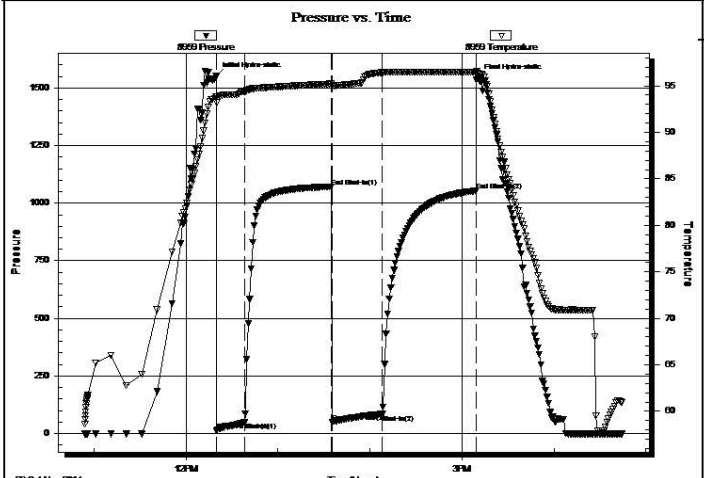
Reference Elevations: 2001.00 ft (KB)
1999.00 ft (CF)
KB to GR/CF: 2.00 ft

Serial #: 8959 **Outside**

Press@RunDepth: 83.59 psig @ 3236.00 ft (KB)
Start Date: 2014.11.29 End Date: 2014.11.29
Start Time: 10:54:05 End Time: 16:44:59

Capacity: 8000.00 psig
Last Calib.: 2014.11.29
Time On Btm: 2014.11.29 @ 12:19:30
Time Off Btm: 2014.11.29 @ 15:10:30

TEST COMMENT: 18-IF- Blow built to 4"
60-ISI- No return
30-FF- Blow built to 4"
60-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.44	93.82	Initial Hydro-static
1	13.49	93.18	Open To Flow (1)
19	47.61	94.35	Shut-In(1)
75	1072.07	95.20	End Shut-In(1)
76	50.47	94.99	Open To Flow (2)
109	83.59	96.41	Shut-In(2)
170	1053.66	96.48	End Shut-In(2)
171	1543.46	96.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW / oil spots 25%M 75%W	0.59

* Recovery from multiple tests

Gas Rates

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

DST #3 LKC I - J 3348' - 3386'

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Fourw inds Petro Corp

PO Box 1063
Hays KS 67601

ATTN: Jeff Law ler

35 4 21 Norton KS

Vanloenen Unit 1

Job Ticket: 62607 **DST#: 3**

Test Start: 2014.11.30 @ 02:55:00

GENERAL INFORMATION:

Formation: **LKC " I--J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:47:30
Time Test Ended: 08:49:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Robert Zodrow
Unit No: 49

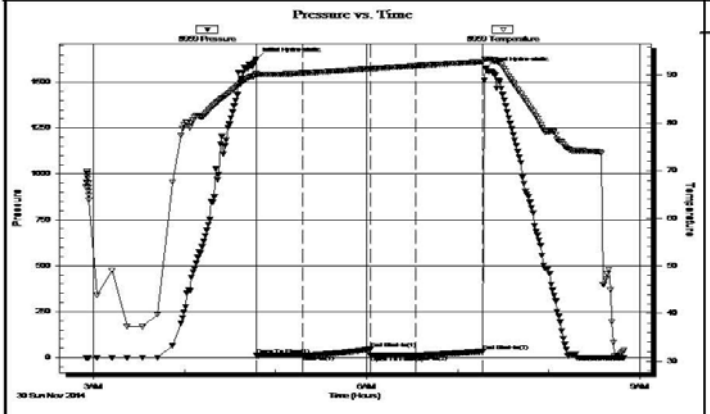
Interval: 3348.00 ft (KB) To 3386.00 ft (KB) (TVD)
Total Depth: 3386.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2001.00 ft (KB)
1999.00 ft (CF)
KB to GR/CF: 2.00 ft

Serial #: 8959 **Outside**
Press@RunDepth: 12.22 psig @ 3349.00 ft (KB)
Start Date: 2014.11.30 End Date: 2014.11.30
Start Time: 02:55:05 End Time: 08:49:29

Capacity: 8000.00 psig
Last Calib.: 2014.11.30
Time On Btm: 2014.11.30 @ 04:47:00
Time Off Btm: 2014.11.30 @ 07:18:00

TEST COMMENT: 30-IF- Blow built to 1/4" died in 30 mins
45-ISI- No return
30-FF- No blow
45-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.60	90.40	Initial Hydro-static
1	11.04	90.17	Open To Flow (1)
31	11.70	90.45	Shut-In(1)
75	44.96	91.40	End Shut-In(1)
76	10.92	91.39	Open To Flow (2)
105	12.22	92.00	Shut-In(2)
150	33.71	92.86	End Shut-In(2)
151	1576.19	93.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	MW/oil spots	0.01

* Recovery from multiple tests

Gas Rates

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

DST #4 TORONTO (STRADDLE) 3178' - 3230'

DRILL STEM TEST REPORT

Fourw inds Petro Corp

PO Box 1063
Hays KS 67601

ATTN: Jeff Law ler

35 4 21 Norton KS

Vanloenen Unit 1

Job Ticket: 62608 **DST#: 4**

Test Start: 2014.12.01 @ 01:14:00

GENERAL INFORMATION:

Formation: **Tronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:12:00
Time Test Ended: 07:33:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Robert Zodrow
Unit No: 49

Interval: 3178.00 ft (KB) To 3230.00 ft (KB) (TVD)
Total Depth: 3490.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

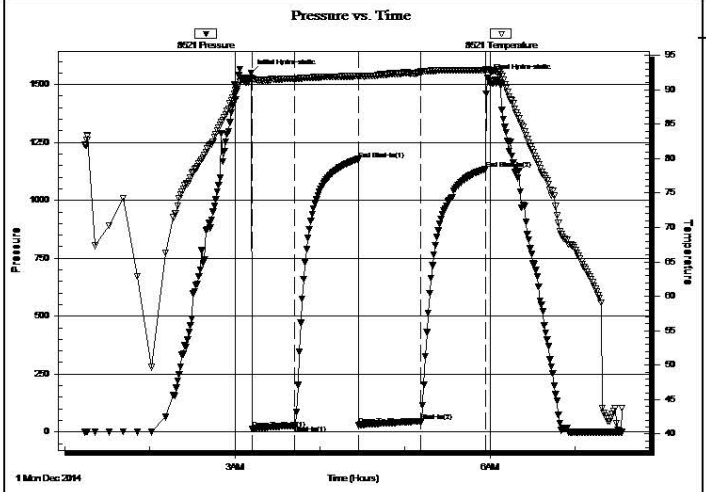
Reference Elevations: 2001.00 ft (KB)
1999.00 ft (CF)
KB to GR/CF: 2.00 ft

Serial #: 8521 **Inside**

Press@RunDepth: 45.89 psig @ 3179.00 ft (KB)
Start Date: 2014.12.01 End Date: 2014.12.01
Start Time: 01:14:05 End Time: 07:33:29

Capacity: 8000.00 psig
Last Calib.: 2014.12.01
Time On Btm: 2014.12.01 @ 03:11:30
Time Off Btm: 2014.12.01 @ 05:58:30

TEST COMMENT: 30-IF- Blow built to 1 3/4"
45-ISI- No return
45-FF- Blow built to 3/4"
45-FSI- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.34	91.73	Initial Hydro-static
1	13.32	91.34	Open To Flow (1)
31	27.71	91.60	Shut-In(1)
76	1177.56	91.98	End Shut-In(1)
76	30.92	91.90	Open To Flow (2)
120	45.89	92.59	Shut-In(2)
166	1134.98	92.85	End Shut-In(2)
167	1529.24	92.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud 100%M	0.30

* Recovery from multiple tests

Gas Rates

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

ROCK TYPES

Cht
Lmst fw7>
shale, gry
Carbon Sh
Shblck
shale, red

ACCESSORIES

STRINGER
Dolomite

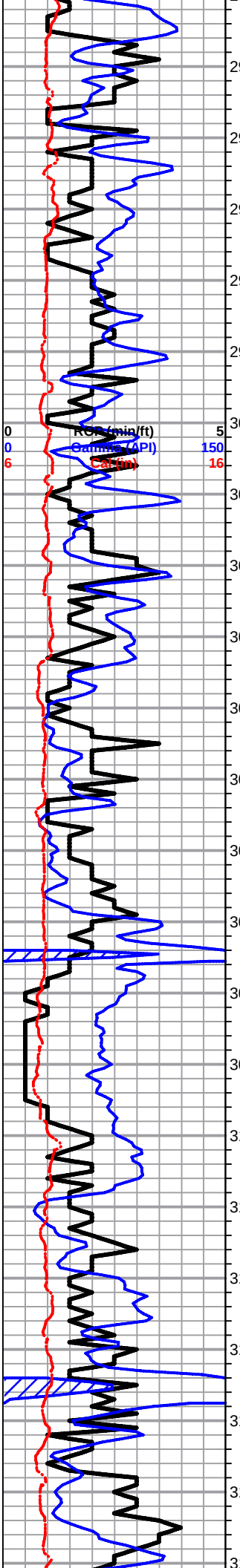
OTHER SYMBOLS

MISC
Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

DST
DST Int
DST alt

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

Curve Track #1 ROP (min/ft) Gamma (API) Cal (in) 1:240 Imperial	Depth | Intervals Cored Interval DST Interval	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3 1:240 Imperial
0 ROP (min/ft) 5 0 Gamma (API) 150 6 Cal (in) 16	2860 2870 2880 2890 2900 2910 2920 2930 2940				**1' DRILL TIME THROUGH THE ANHYDRITE FROM 1600' - 1660'** **1' DRILL TIME FROM 2880' - RTD** **10' WET/DRY SAMPLES FROM 2930' - RTD** **GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 2930' - RTD** **DRILLER'S ANHYDRITE TOP 1594' (+407) E-LOG 1595' (+406)** **DRILLER'S ANHYDRITE BASE 1625' (+376) E-LOG 1627' (+374)** **8 5/8" SURFACE PIPE SET @ 220' SURVEY 1 dgr.** Lm- Cream Buff, FXLN, mix of massive oolitic, poorly dev. & sl chalky in part, chalky loosely cemented & fsl w/ fusulinids, & fn grn mud supported matrix, all w/ poor vis. porosity & sl chalky Lm- Gray Buff, Fn Grn, loosely cemented siltstone & high-energy mud supported maxtrix w/ fsl, poor vis. porosity	



Sh- Maroon Lt & Drk Gray, gritty & earthy, gummy clumps & silty pcs

Lm- Gray, VFXLN Vf Grn, dense tight mix, most well cemented, few pcs of loosely cemented siltstone, no vis. porosity

Sh- Gray, gummy clumps & wash

Lm- Buff Gray, VF-FXLN, dense, massive, well cemented high-energy trashy fsl mix w/ poor vis. porosity, some sctrd secondary recrystallization

Sh- Maroon Gray White, gritty & earthy, gummy clumps, sandy lime/shaleySs, silty & calcareous

TOPEKA 2978' (-977) E-LOG 2974' (-973) Lm- Cream Buff, FXLN, fsl, poorly dev., few lithographic w/o vis. porosity, some massive, some sl chalky in part, barren

Lm- Cream Buff, VF-FXLN, dense, sl trashy high-energy fsl mix., few poorly dev. oolitic pcs w/ min. effective porosity & sctrd secondary recrystallization porosity, few pcs of sub-sucrosic dolomitic Ls w/ micro XLN porosity, clean & barren

Lm- Gray Buff, FXLN, trashy high-energy fsl mix., poorly dev. & tight w/ poor vis. porosity, some sandy Ls, loosely cemented

Sh- Black, fissile & dense, soft & silty

Lm- Cream Off White, VF-FXLN, fsl, most dense w/ micro XLN & XLN porosity, few w/ sctrd wk fn ppt porosity, vry clean, barren, much soft white chalk

Lm- Cream Off White, FXLN, oolitic, poorly dev., min. effective porosity, fn ppt inter oolite appearant porosity, sctrd secondary recrystallization & clear replacement cementation, vry clean & barren, some massive

Sh- Gray White, silty & calcareous, gummy white chalk

Lm- VFXLN CryptoXLN, dense tight well cemented mix of sl grainy & gritty Ls w/o vis. porosity & golden brown porcelain like cherty Ls w/o vis. porosity or matrix

Lm- Cream Off White, VFXLN, dense, well cemented, mostly tight w/ poor vis. porosity, some soft white chalk. vry clean, few pcs of massive poorly dev. oolitic w/ min. effective porosity, clear replacement cementation & sctrd secondary recrystallization

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

Lm- Cream Off White, FXLN, oolitic, poorly dev. w/ clear replacement cementation, poor to min. effective porosity, sctrd secondary recrystallization, some soft white chalk & golden brown cherty Ls w/o vis. porosity, several pcs of fresh bedded vitreous chert, some sandy gummy lime

Lm- Cream Gray, VF-FXLN, dense, high-energy fsl trashy mix, sctrd-dense XLN porosity, some loosely cemented sandy lime

Lm- Cream Off White & Mustard, VF-FXLN, poorly dev. & oolitic, most sl cherty Ls w/ sctrd XLN porosity, some loostly cemented & sl chalky

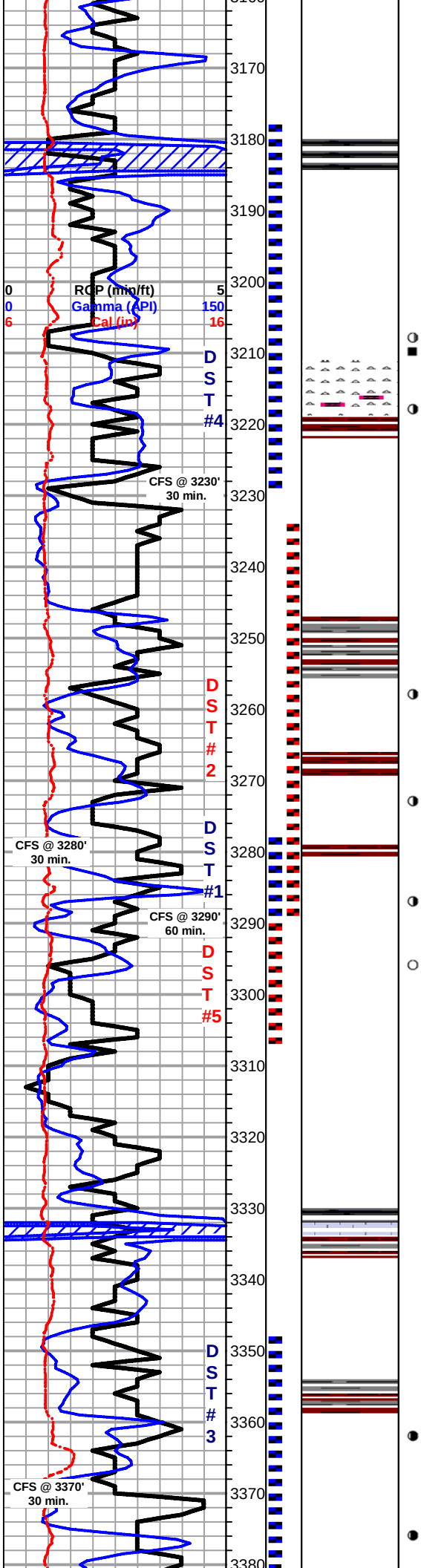
Sh- Maroon Gray Lm Green, gritty & earthy, silty & calcareous, soft sandy lime, gummy white chalk

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

Lm- Cream Buff, VF-FXLN, fsl mix, all poorly dev. w/ sctrd XLN porosity, some soft white chalk

Lm- Cream Tan, VF-FXLN, sl fsl, mostly tight w/ sctrd XLN porosity, some sctrd secondary recrystallization

Lm- Cream Buff, VFXLN, dense, well cemented, tight w/ min. vis. porosity, several



lithographic w/o vis. porosity, some soft white chalk

Lm- Cream Off White Buff, VF-FXLN, fsl w/ few loose crinoids & fusulinids, sctrd XLN porosity, mostly tight, few sl chalky in part

HEEBNER 3179' (-1178) E-LOG 3180' (-1179) Sh- Black, fissile & carbonaceous

Sh- Maroon Gray Lm Green, gritty & earthy some gummy wash, silty & dense, silty & calcareous

TORONTO 3206' (-1205) E-LOG 3207' (-1206) Lm/Chert- Mix of golden brown vitreous fresh bedded chert, massive dense fsl, poorly dev. & mostly tight w/ sctrd vry fn ppt porosity (? effective porosity), & fsl w/ fusulinids & few oolites, mod. dev w/ sctrd ppt inter fsl porosity, few sl chalky in part, WK SPTY STN, NSFO, WK ODR, DULL YLW FLOR. WK STRM FLOR.(approx. 10-12 pcs)

Chert- A/A w/ gritty sub-sucrosic dolomitic Ls w/ consistent XLN porosity, WK SCTRD STN, TR FO, NO ODR (approx. 3-4 pcs)

LKC 3221' (-1220) E-LOG 3227' (-1226) Lm- Cream Off White, VF-FXLN, some sl fsl, poorly dev. & mostly tight, porosity from no vis. to sctrd micro XLN & some XLN porosity, vry clean & barren

Lm- Cream Off White, FXLN, oolitic, poorly dev. w/ clear replacement cementation, no vis. porosity, sl cherty Ls

Lm- Cream Off White, VFXLN, dense, well cemented, tight w/ no vis. to sctrd micro XLN porosity, vry clean, some soft white chalk

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

Lm- White Off White, Med XLN, mod. well dev. & oolitic w/ mostly consistent ppt inter oolite porosity, some recrystallization w/in porosity, SCTRD DRK STN, TR GSY FO UPON CRUSH, WK ODR (several pcs)

Lm- Cream Off White, VF-FXLN Vf Grn, dense, well cemented, most tight w/ sctrd XLN porosity & soft chalk, vry clean & barren

Lm- Cream Off White, Crs XLN, pearl shaped oolie cluster fn ppt to sub-vuggy inter oolite porosity, SCTRD LT STN, NSFO, NO ODR (approx. 6 pcs), few (4-6 pcs) of fresh bedded chert w/ DRK EDGE STN OF FO, SEMI-TARRY, much VF-FXLN, sl fsl, mostly tight & vry clean & barren

Lm- Tan Cream, F-Med XLN, fsl & oolitic, mod. well dev. w/ sctrd to dense ppt inter oolite & XLN porosity, SCTRD LT-DRK STN, SL TR FO, WK ODR (several pcs), mix w/ dense well cemented & tight VF-FXLN, vry clean & barren

Lm- White Cream, VFXLN Vf Grn, massive, well cemented, dense, poor vis. porosity w/ micro pyrite inclusions, NO VIS. STN, WK ODR, NSFO, YLW HALO FLOR?? some chalky in part, vry clean & barren

Lm/Chert- White Off White, VF-FXLN, fsl & sl oolitic, poorly dev. w/ much clear replacement cementation & poor effective porosity, soft white chalk, much bone & milky white fresh bedded chert

Lm- Cream Off White, VF-FXLN, tight mix of sl fsl & oolitic, well cemented w/ sctrd micro XLN & XLN porosity, gritty dolomitic cherty Ls, all w/ poor vis. porosity, decr. in chert A/A

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

Lm- Cream Off White, VF-FXLN, sl fsl w/ few sctrd fusulinids, poorly dev., sctrd micro XLN & XLN porosity, few pcs w/ rare sctrd fn ppt porosity, vry clean & barren

Lm- Mint Green, Fn Grn, chalky loosely cemented & sl fsl w/ few fusulinids, poor porosity & soft

Lm- Cream Tan, VF-Med XLN, mix of mod. - well dev. oolitic w/ porosity from dense micro XLN to sctrd ppt inter oolite porosity, SCTRD TO SUB-SAT DRK STN, WK-FR SFO, WK ODR, HVY OILY SHEEN (many pcs), several pcs w/ consistent vry fn ppt porosity & STN A/A

Lm- Cream Off White, FXLN, fsl, sctrd dev., some w/ sctrd-consistent vry fn ppt porosity, some w/ sctrd XLN porosity, all w/ SCTRD DRK STN, TR FO, WK-MOD ODR (many pcs)

DST #4 TORONTO (STRADDLE)
3178' - 3230'
30-45-45-45

60' MUD

IFP: 13-27#
FFP: 30-45#
SIP: 1177-1134#

SEE PIC BELOW

3210.jpg

3217.jpg

DST #2 LKC C - E
3255' - 3290'
15-60-30-60

100' MCW w/ OIL SPOTS

IFP: 13-47#
FFP: 50-83#
SIP: 1072-1053#

3257.jpg

3274.jpg

3274_2.jpg

3285.jpg

3295.jpg

SHORT TRIP
SURVEY 1/4 dgr
STRAP -0.91'

DST #1 LKC E
3278' - 3290'
45-45-45-45

5' MUD w/ OIL SPOTS

IFP: 55-39#
FFP: 25-31#
SIP: 56-48#

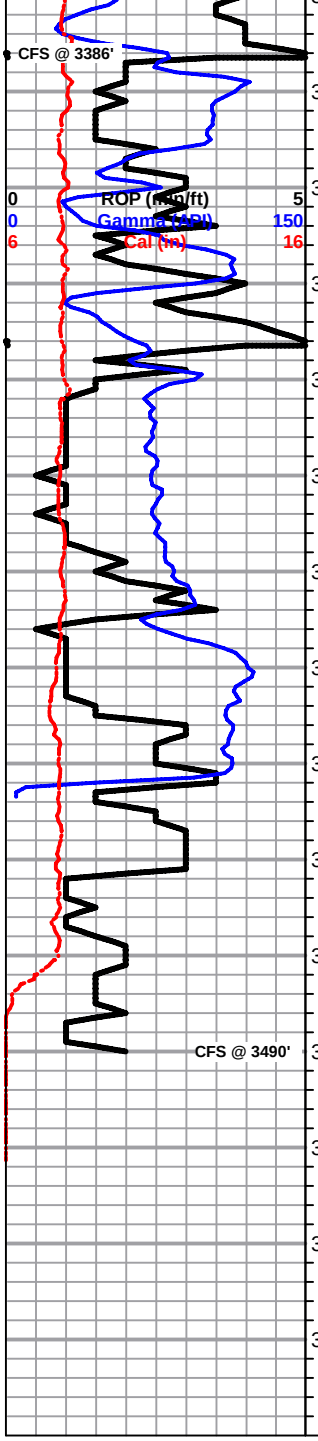
DST #3 LKC I - J
3348' - 3386'
30-45-30-45

2' MUD w/ OIL SPOTS

IFP: 11-12#
FFP:11-12#
SIP: 45-34#

3362.jpg

3374.jpg



Lm- A/A w/ incr. of FXLN w/ consistent vry fn - fn ppt porosity, STN A/A, HEAVIER OIL SHEEN

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

Lm- Cream Off White Tan, FXLN Vf Grn, fsl & oolitic, few pcs w/ mod. sctrd fn ppt inter oolite porosity, SCTRD DRK STN, NSFO, FR SULPHURIC ODR?? (few pcs), soft chalk & mud supported matrix, FEW CARRY STN A/A, few barren

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

3397.jpg

DST #5
STRADDLE
LKC F
3291' - 3308'

Lm- Cream Off White, VF-FXLN, fsl & oolitic, poorly dev. & mostly tight w/ poor vis. to sctrd micro XLN porosity, clean & barren

BKC 3419' (-1418) E-LOG 3419' (-1418) Sh- Maroon Gray Lm Green, gritty & earthy, some gummy wash, silty & semi-waxy, silty & soft

Lm- Cream Off White, VFXLN, dense, sl fsl, poorly dev. & mostly tight w/ micro XLN & XLN porosity

Conglomerate- Sh/Lm- Mostly maroon/lt purple mix of VFXLN, dense & well cemented w/o vis. porosity, grainy & well cemented w/o vis. porosity, unconsolidated & loosely cemented siltstone & various shales & sandy lime

Conglomerate- A/A w/ incr. in sandy lime & sl sandy Ls, also w/ VF-FXLN, unconsolidated Ls w/ no vis. to XLN porosity, few pcs of chalky Ls w/ med grn, qtz inclusions

ARBUCKLE 3471' (-1470) E-LOG Dolomite- Cream Off White, F-Med XLN, dense, well cemented, sucrosic euhedral rhombs w/ sctrd-consistent innerXLN ppt porosity, clean & barren

Dolomite- MedXLN A/A w/ some VFXLN, dense, vry well cemented w/ min. vis. porosity, vry clean & barren

Dolomite- Cream Buff, F-Med XLN, sucrosic w/ euhedral rhombs & sctrd ppt inter XLN & micro XLN porosity, barren

RTD 3490' (-1489) LTD 3490' (-1489) @ 16:12 11/30/2014

DST 4_BTMPKR.jpg

3210.jpg

3210' X 30

3217.jpg

3217' x 62.5

3257.jpg

3257' x 30

3274.jpg

3274' x 30

3274_2.jpg

3274' x 30

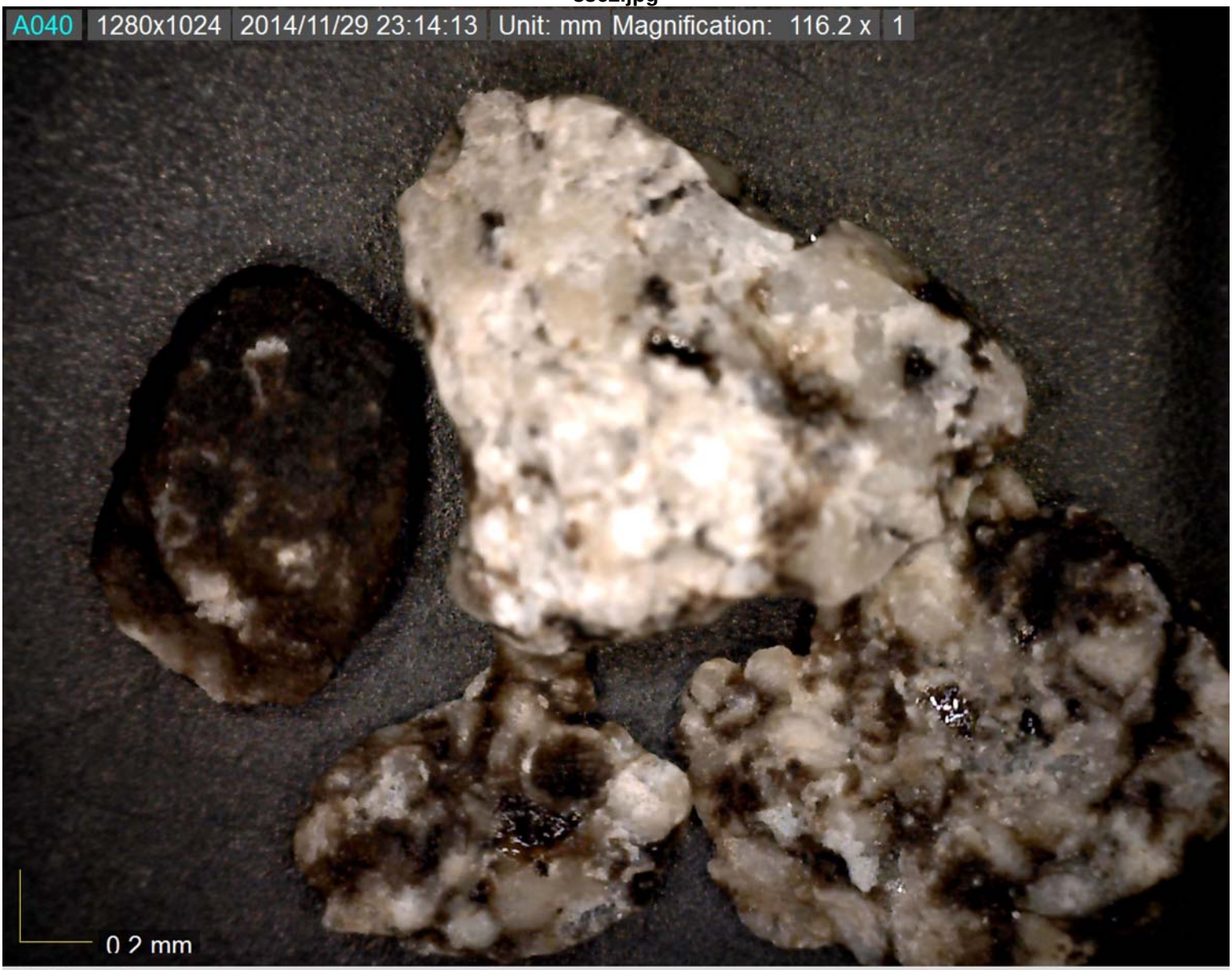
3285.jpg

3285' x 30

3295.jpg

3295' X 30

3362.jpg



3362' X 30

3374.jpg

3374' X 30

3397.jpg

DST 4_BTMPKR.jpg