

OPERATOR

Company: SANDLIN OIL CORPORATION
 Address: 621 17TH STE.2055
 DENVER, CO 80293-2001

Contact Geologist: GARY SANDLIN
 Contact Phone Nbr: 303-292-3313
 Well Name: STAAB-KARLIN, et al # 2
 Location: NE NE NE SE Sec.15-12s-18w
 Pool:
 State: KANSAS

API: 15-051-26,657-00-00
 Field: BEMIS-SHUTTS
 Country: USA

Scale 1:240 Imperial

Well Name: STAAB-KARLIN, et al # 2
 Surface Location: NE NE NE SE Sec.15-12s-18w
 Bottom Location:
 API: 15-051-26,657-00-00
 License Number: 6677
 Spud Date: 2/9/2014 Time: 6:00 AM
 Region: ELLIS COUNTY
 Drilling Completed: 2/13/2014 Time: 9:45 PM
 Surface Coordinates: 2615' FSL & 170' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2145.00ft
 K.B. Elevation: 2155.00ft
 Logged Interval: 3000.00ft To: 3760.00ft
 Total Depth: 3760.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.2978412 Latitude: 39.0086772
 N/S Co-ord: 2615' FSL
 E/W Co-ord: 170' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: VAL ENERGY, INC.
 Rig #: 6
 Rig Type: MUD ROTARY
 Spud Date: 2/9/2014 Time: 6:00 AM
 TD Date: 2/13/2014 Time: 9:45 PM
 Rig Release: 2/15/2014 Time: 9:00 AM

ELEVATIONS

K.B. Elevation: 2155.00ft Ground Elevation: 2145.00ft
 K.B. to Ground: 10.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE STRUCTURE AND POSITIVE RESULTS OF DRILL STEM TEST # 1

OPEN HOLE LOGGING BY: NABORS COMPLETION & PRODUCTION SERVICES CO: DUAL INDUCTION LOG, COMPENSATED DENSITY/NEUTRON LOG, MICRO LOG

DRILL STEM TESTING BY TRILOBITE TESTING INC: ONE (1) STRADDLE TEST

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

STAAB-KARLIN et al # 2
NE NE NE SE
SEC.15-12S-18W
2145'GL 2155'KB


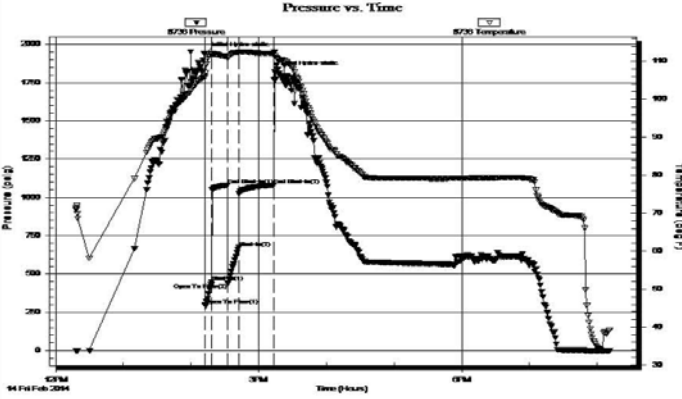
STAAB-KARLIN #1
SE SW SE NE
SEC15-12S-18W

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>	<u>COMPARISON</u>
Anhydrite	1420 +735	1417 +738	+ 731
B-Anhydrite	1451 +704	1452 +703	+ 698
Topeka	3123 -968	3122 -967	- 966
Heebner Shale	3355-1200	3353-1198	-1198
Toronto	3378-1223	3374-1219	-1219
LKC	3399-1244	3399-1244	-1243
BKC	3645-1490	3645-1490	-1486
Simpson Shale	3660-1505	3662-1507	
Arbuckle	3670-1515	3642-1626	-1644
RTD	3760-1605	3759-1604	-1592

SUMMARY OF DAILY ACTIVITY

- 2-09-14 RU, Spud 6:00 AM, set 8 5/8" surface casing to 214.85' w/ 150 sxs
Common 2%Gel 3%CC, plug down 1:15PM, slope ¼ degree
- 2-10-14 630'
- 2-11-14 2048', drilling
- 2-12-14 2932', drilling, displaced 2791'
- 2-13-14 3488', RTD 3760' @9:45PM, short trip 33 stands, CCH, TOWB, slope
¾ degree
- 2-14-14 3760', logs, straddle DST # 1 Arbuckle 3662' to 3694', TIWB
- 2-15-14 3760', LDDP, run production casing, RD

DST # 1 STRADDLE TEST 3662' TO 3694' ARBUCKLE BOTTOM PACKER HELD

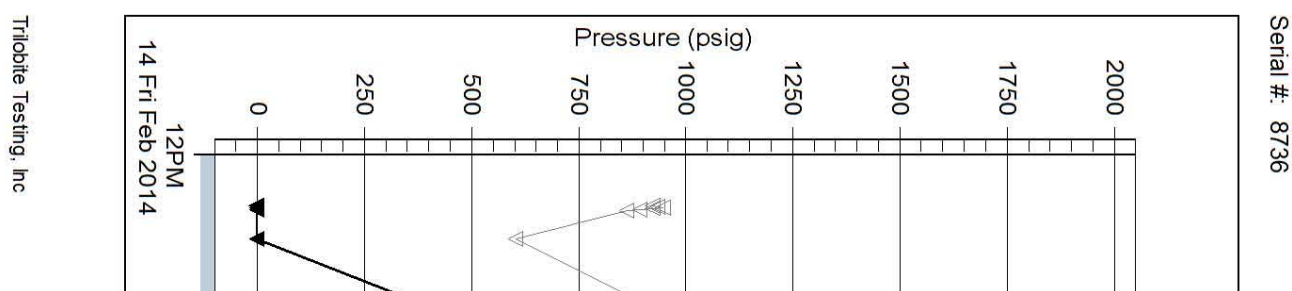
	TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																										
	Sandlin Oil Corp 621 17th St 2055 Denver Co 80293 ATTN: Herb Dienes	15-12S-18W Ellis Staab-Karlin #2 Job Ticket: 56185 DST#: 1 Test Start: 2014.02.14 @ 12:18:00																																										
GENERAL INFORMATION: Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 14:12:30 Time Test Ended: 20:11:00 Test Type: Conventional Straddle (Initial) Tester: Tim Phillips Unit No: 59 Reference Elevations: 2155.00 ft (KB) 2150.00 ft (CF) Interval: 3662.00 ft (KB) To 3694.00 ft (KB) (TVD) Total Depth: 3760.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft																																												
Serial #: 8736 Press@RunDepth: 670.95 psig @ ft (KB) Capacity: 8000.00 psig Start Date: 2014.02.14 End Date: 2014.02.14 Last Calib.: 2014.02.14 Start Time: 12:18:05 End Time: 20:10:59 Time On Btm: 2014.02.14 @ 14:12:00 Time Off Btm: 2014.02.14 @ 15:14:00																																												
TEST COMMENT: IFP-5- BOB in 30 sec ISI-15-Blow back built to 2.5 in FF-10-BOB in 15 sec FSI-30-Blow back built to 4.5 in																																												
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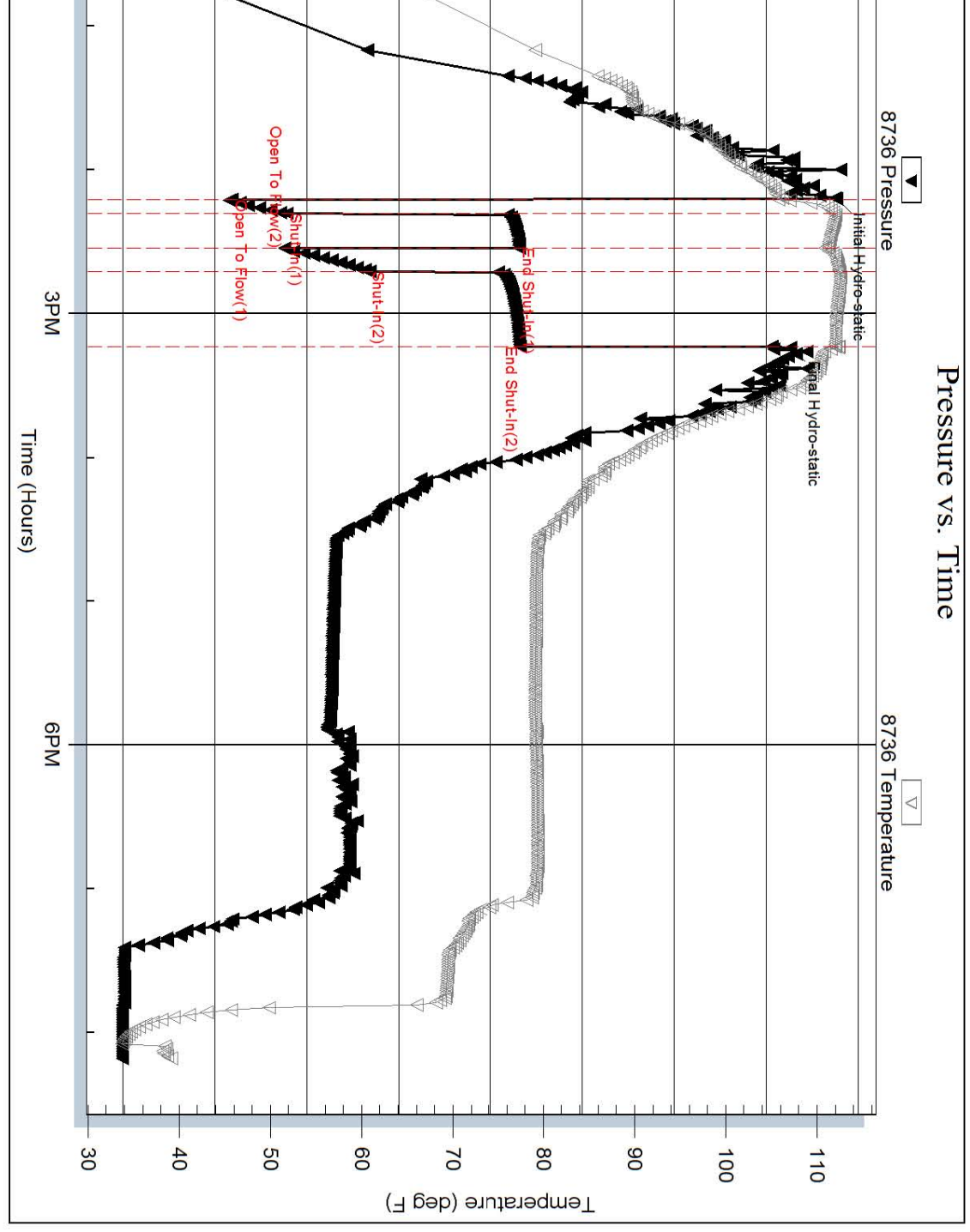
Trilobite Testing, Inc

Ref. No: 56185

Printed: 2014.02.14 @ 21:59:34

DST # 1 STRADDLE TEST EXPANDED CHART





Ref. No: 56185

Printed: 2014.02.14 @ 21:59:36

ROCK TYPES

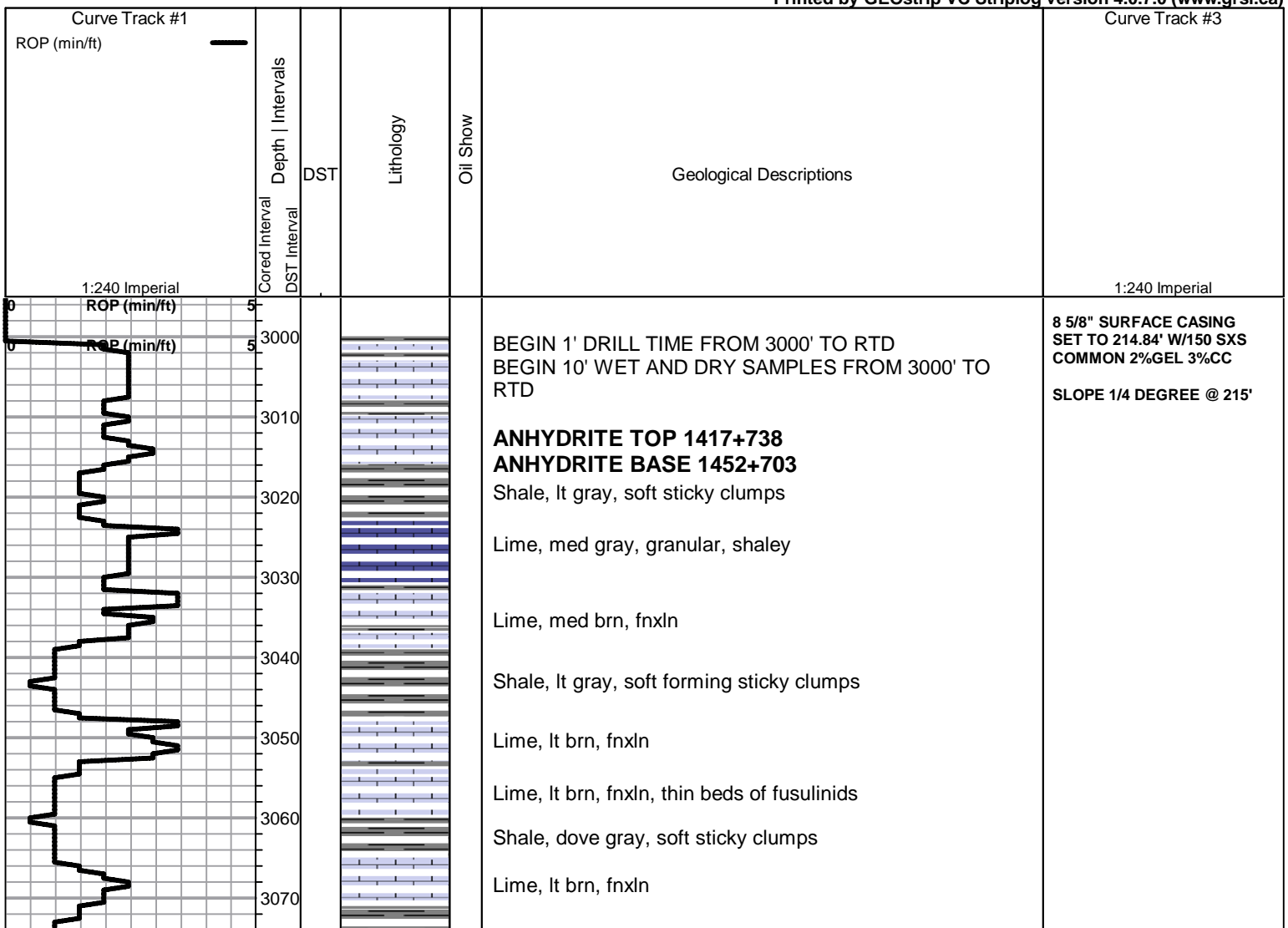
Clystgy	Lmst fw<7	shale, grn	shale, red
Clystcol	Lmst fw7>	shale, gry	
Dolprim	Lscongl	Carbon Sh	

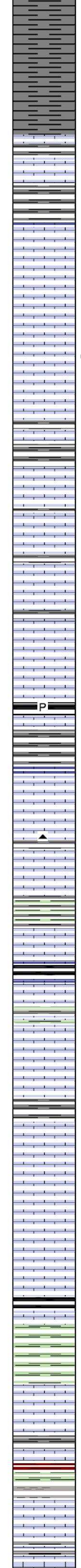
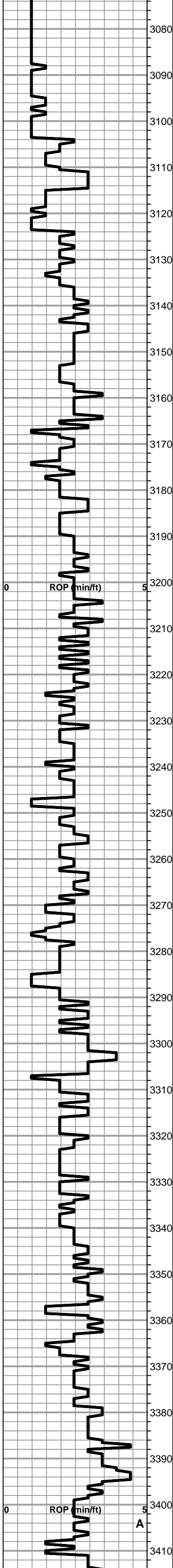
ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- △ Chert White

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





Shale, lt-med gray soft blocky to soft sticky clumps

Lime, lt brn, fnxln, slightly fossiliferous-fusulinids

Shale, lt-med gray, soft forming sticky clumps
TOPEKA ELog 3122-967
 Lime, lt-med brn, fnxln-granular in part, speckled with gray fossil remnants

Lime, lt-med brn-med gray, fnxln

Lime, lt gray-offwhite, fnxln-granular in part, 1 chip with trace of fine oil specks, no odor, NFO

Lime, lt brn-lt grayish brn, fnxln, slightly fossiliferous

Shale, lt-med gray, soft blocky

Lime, lt brn-lt grayish brn, fnxln

Lime, lt-med brn, fnxln, slightly fossiliferous-fusulinids

Lime, lt brn-lt gray, fn-vfxln-slightly micro xln in part

Lime, lt brn, mostly fnxln-slightly granular in part

Lime, lt-med brn, increasing granular with slight chalk matrix

Lime, lt-med brn, increasing bedded chalk

Lime, tan-crm, fnxln, bedded chalk

Lime, tan-lt brn, fnxln with bedded chalk
 Chert, gray, fresh, sharp

Lime, lt-med brn, fnxln, increasing chalky matrix and bedded chalk

Shale, lime green, soft forming sticky clumps

Lime, lt-med brn, fnxln-granular, bedded chalk, slightly fossiliferous

Shale, black carbonaceous, blocky

Lime, med brn, fnxln, slightly fossiliferous

Lime, crm-lt brn-lt gray, fnxln, some soft on crush, slight bedded chalk

Lime, crm-lt grayish brn, fn-vfxln, slight bedded chalk

Lime, tan-lt brn, granular with bedded chalk and scattered sticky clumps of chalk

Lime, tan-lt brn, fnxln, slight bedded chalk

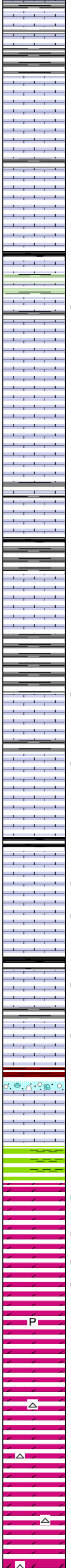
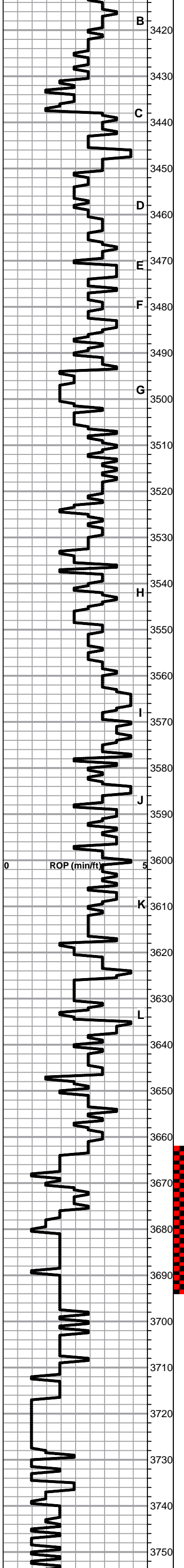
Lime, tan-lt brn, fnxln, bedded chalk

Lime, tan-lt brn, fnxln, bedded chalk
HEEBNER SHALE SPL 3355-1200 ELog 3353-1198
 Shale, black carbonaceous, fissile, blocky
 Lime, lt-med brn, fn-vfxln

Shale, lime green, soft forming sticky clumps
TORONTO ELog 3374-1219
 Lime, tan-crm, fnxln, bedded chalk, NS

Lime, lt brn, fn-vfxln
LKC ELog 3399-1244
 Lime, tan-lt brn, fnxln-granular, chalky matrix with bedded chalk in part, NS

Lime, lt-med brn, fnxln-vfxln in part



Lime, lt-med brn, fnxln

Shale, lt gray forming soft mud clumps

Lime, lt-med brn, fnxln, slight bedded chalk, NS

Lime, tan-lt brn, fnxln, slight bedded chalk

Lime, tan, fnxln, chalky, NS

Lime, tan, fnxln, bedded chalk

Shale, black carbonaceous

Lime, tan-lt brn, mostly fnxln with fine pinpoint porosity with trace of lt stain, NFO, No Odor

Lime, crm-tan, fnxln, bedded chalk, NS

Lime, tan, fnxln, bedded chalk, NS

Lime, tan-lt brn, fn-vfxln, bedded chalk

Lime, tan-lt brn, fn-vfxln, bedded chalk

Lime, lt-med brn, fnxln

Shale, med gray, firm blocky with black carbonaceous in part

Lime, tan-lt brn, fn-vfxln, bedded chalk

Lime, tan, fnxln, lot of bedded chalk

Shale, lt gray, soft blocky with sticky clumps in part

Lime, tan-lt brn, fnxln, bedded chalk, one chip with fine inter xln scattered fine pinpoint porosity, few free floating oil globules in tray, no odor

Lime, tan-lt grayish brn, fn-vfxln, hard on crush, bedded chalk in part, one piece oomoldic with trace of stain, NFO, No Odor.

Lime, crm-tan-slightly off white, fnxln with scattered oomoldic. appears poorly developed

Shale, gray-black carbonaceous

Lime, tan-lt brn, mostly fnxln, few specks of free oil, very lt odor, fine interxln with scattered pinpoint porosity. Not well developed.

Lime, tan-lt brn, fn-micro xln

Lime, tan with with chalk, NFO, No Odor, good wet cut on crush in chalk clumps

Lime, crm-tan, fnxln, more inter xln and vuggy porosity with scattered staining, MSFO with lt odor

BKC ELog 3645-1490

Shale, red soft mud

Lime, crm, fnxln with specks of glauconite and reworked

SIMPSON SHALE ELog 3662-1507

Shale, blue green, soft sticky to firm dark, blue green, waxy

ARBUCKLE ELog 3670-1515

Dolomite, tan-med brn, mostly fnxln, spotty staining, lt odor

Dolomite, tan-lt brn, fnxln, lt odor and scattered staining in porous chips, scattered vugs and inter xln porosity

Dolomite, tan-lt brn, fnxln, med xln sucrosic in part, lt odor

Dolomite, tan-lt brn, pyritic in part, fnxln

Dolomite, tan-lt brn, fn-vfxln, hard on crush

Dolomite, tan-lt brn, fnxln

Chert, bone white, fresh, sharp

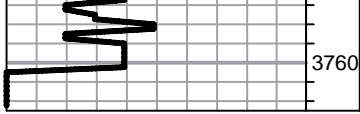
Dolomite, tan-lt brn, fnxln-granular in part

Chert, milky white, fresh, sharp

Dolomite, tan-lt brn, fn-vfxln, hard on crush

Dolomite tan-lt brn, fn-vfxln

DST # 1 STRADDLE TEST OF ARBUCKLE. SEE HEADER FOR TEST SUMMARY



RTD 3760-1605 LTD 3759-1504

SLOPE 3/4 DEGREE @3760'