



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1228117  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1228117

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# ALLIED OIL & GAS SERVICES, LLC 055516

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>10.9.14</u>	SEC. <u>26</u>	TWP. <u>10</u>	RANGE <u>16</u>	CALLED OUT	ON LOCATION	JOB START <u>200</u>	JOB FINISH <u>300</u>
LEASE <u>master</u>	WELL # <u>1</u>	LOCATION <u>Trenton 25 1 n id</u>			COUNTY <u>Wood</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Boyer Drilling #2

TYPE OF JOB Surface

HOLE SIZE 13 7/8 T.D.

CASING SIZE 8 7/8 DEPTH 350.77

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 20.40

OWNER

CEMENT AMOUNT ORDERED 20052 cu

+ 21 gal + 3.0 cc

COMMON 20052 @ 17.9 63552.00

POZMIX @

GEL 376 lb @ .50 \$ 188.00

CHLORIDE 564 lb @ 1.10 \$ 620.40

ASC @

EQUIPMENT

PUMP TRUCK # 417 CEMENTER Andy Spencer

HELPER Darryl

BULK TRUCK # 377 DRIVER Tyler W.

BULK TRUCK # DRIVER

HANDLING 2004 Fl3 @ 2.45 \$ 496.00

MILEAGE 282 7.00 \$ 1974.00

TOTAL \$5657.00

REMARKS:

connected to surface

see comments on back

SERVICE

DEPTH OF JOB 350.77

PUMP TRUCK CHARGE \$ 1512.25

EXTRA FOOTAGE @

MILEAGE Heavy 67 @ 7.7 \$ 132.00

MANIFOLD light 30 @ 4.4 \$ 462.00

TOTAL \$ 2,106.25

CHARGE TO: Smolin Oil Company

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment





# SANDLIN OIL CORPORATION

Scale 1:240 Imperial

Well Name: HACKMEISTER-MASTERS UNIT #1  
 Surface Location: SE NE NE NE S26 T10S R16W  
 Bottom Location:  
 API: 15-163-24262-00-00  
 License Number: 6677  
 Spud Date: 10/8/2014 Time: 3:00 PM  
 Region: ROOKS COUNTY  
 Drilling Completed: 10/14/2014 Time: 12:36 AM  
 Surface Coordinates: 490 FNL & 50 FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2036.00ft  
 K.B. Elevation: 2043.00ft  
 Logged Interval: 2900.00ft To: 3700.00ft  
 Total Depth: 3700.00ft  
 Formation: TOPEKA, LANSING KANSAS CITY  
 Drilling Fluid Type: CHEMICAL / FRESH WATER GEL

### OPERATOR

Company: SANDLIN OIL CORPORATION  
 Address: 621 17TH STREET STE 2055  
 DENVER, COLORADO  
 80293-2001  
 Contact Geologist: GARY SANDLIN  
 Contact Phone Nbr: 303-292-3313  
 Well Name: HACKMEISTER-MASTERS UNIT #1  
 Location: SE NE NE NE S26 T10S R16W  
 API: 15-163-24262-00-00  
 Pool:  
 State: KANSAS Field: WILDCAT  
 Country: USA

### SURFACE CO-ORDINATES

Well Type: Vertical  
 Longitude: -99.0663520  
 Latitude: 39.1607016  
 N/S Co-ord: 490 FNL  
 E/W Co-ord: 50 FEL

### LOGGED BY



Company: SOLUTIONS CONSULTING, INC.  
 Address: 108 WEST 35TH  
 HAYS, KANSAS 67601  
 Phone Nbr: 785-650-4540 / 785-639-1337  
 Logged By: Geologist Name: STEVE REED

### CONTRACTOR

Contractor: ROYAL DRILLING, INC  
 Rig #: 2  
 Rig Type: MUD ROTARY  
 Spud Date: 10/8/2014 Time: 3:00 PM  
 TD Date: 10/14/2014 Time: 12:36 AM  
 Rig Release: 10/15/2014 Time: 6:00 AM

### ELEVATIONS

K.B. Elevation: 2043.00ft Ground Elevation: 2036.00ft

**NOTES**

BASED ON LOW STRUCTURAL POSITION, LACK OF SIGNIFICANT SHOWS, AND LOG ANALYSIS THE DECISION WAS MADE TO PLUG AND ABANDON WELL

OPEN HOLE LOGGING PROVIDED BY: NABORS COMPLETION AND PRODUCTION SERVICES  
DUAL INDUCTION LOG, COMPENSATED NEUTRON-DENSITY LOG, MICRORESISTIVITY LOG,  
AND SONIC LOGS WERE PERFORMED

NO DST'S


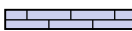








**FORMATION TOPS COMPARISON AND DAILY ACTIVITY SUMMARY**

	WELL NAME		COMPARISON WELL	COMPARISON WELL
	HACKMEISTER-MASTERS UNIT #1		LINQUIST #1	DOTY #1
	API: 15-163-24262		API: 15-163-21050	API: 15-163-00011
FORMATION	SAMPLE TOPS	LOG TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)
<b>ANHYDRITE</b>	NO CALL	1253' (+790')	+772'	+809'
<b>TOPEKA</b>	3003' (-960')	2996' (-953')	-951'	-952'
<b>HEEBNER</b>	3238' (-1195')	3235' (-1192')	-1187'	-1190'
<b>TORONTO</b>	3261' (-1218')	3254' (-1211')	-1216'	-1212'
<b>LKC</b>	3285' (-1242')	3280' (-1237')	-1235'	-1236'
<b>BKC</b>	3531' (-1488')	3529' (-1486')	-1484'	-1506'
<b>ARBUCKLE</b>	NOT REACHED		-1596'	NA
<b>RTD</b>	3700' (-1657')	3698' (-1655')	-1668'	-1639'

**SUMMARY OF DAILY ACTIVITY**

- 10-8-14** R.U., spud @ 3:00pm, 8 5/8" surface casing set at 350' w/200 sxs common, 2% gel, 3% cc, plug down @ 2:45am, survey 3/4°
- 10-9-14** 350', WOC, drilling, bit trip @ 1369'
- 10-10-14** 1369', drilling
- 10-11-14** 2365', drilling
- 10-12-14** 2950', drilling, CFS @ 3015'
- 10-13-14** 3400', drilling, CFS@ 3532, TD of 3700' reached @ 12:36am, short trip (25 stands, CTCH, TOWB for logs, survey 1°
- 10-14-14** 3700', logging, prepare for plugging
- 10-15-14** release rig

### ROCK TYPES

 Congl	 Lmst fw7>	 Carbon Sh	 Ss
 Chtcongl	 shale, grn	 shale, red	
 Lmst fw<7	 shale, gry	 Shcol	

### ACCESSORIES

#### MINERAL

- ▲ Chert, dark
- ∩ Glauconite

#### FOSSIL

- F Fossils < 20%
- ⊕ Oolite
- ⊕ Oomoldic
- ⊕ Fossilinid

#### STRINGER

- ~ Chert
- red shale

#### TEXTURE

- C Chalky
- L Lithogr

### OTHER SYMBOLS

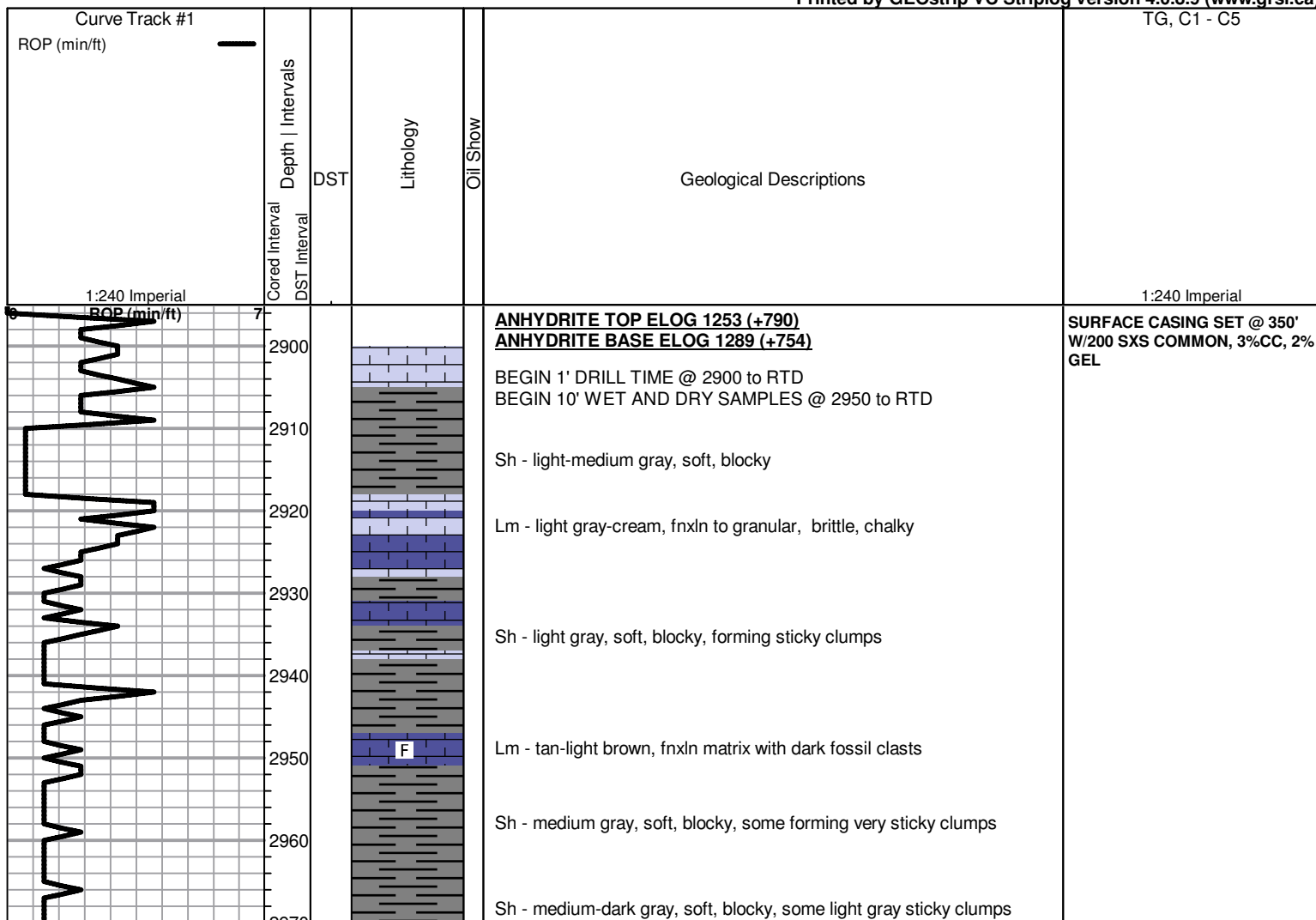
#### Oil Show

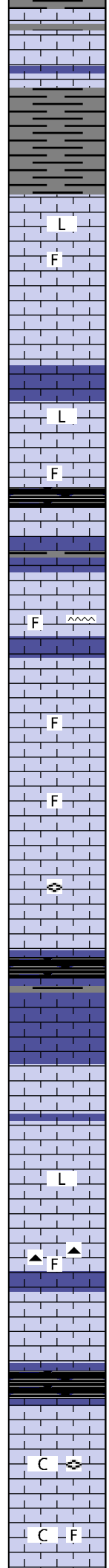
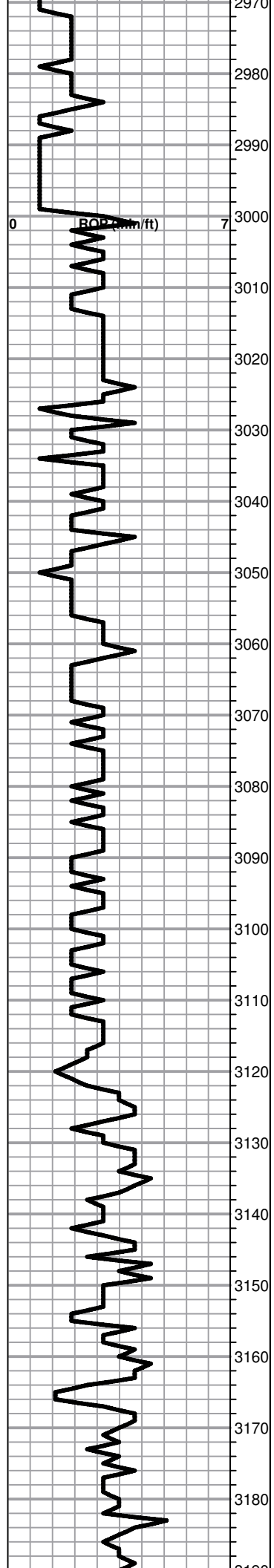
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- \* Gas

#### DST

- DST Int
- DST alt
- Core
- tail pipe
- DST
- DST
- DST

Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)





Lm - dark gray-brown, clastic lime with various sized fragments, brittle

Sh - light-medium gray, soft, blocky, some sticky

**TOPEKA SPL 3003 (-960) ELOG 2996 (-953)**

Lm - cream-tan, fnxln to lithographic in some, dense, very hard

Lm - cream-tan, fnxln, slightly fossiliferous, dense, hard, bedded chalk in part

Lm - tan-light gray, fnxln, dense, hard

Lm - tan-light gray, fnxln to lithographic, dense, hard

Lm - light brown-gray, fnxln, slightly fossiliferous, brittle

Lm - tan-light brown, fnxln, some with dark fossil clasts, dense, brittle

Lm - cream, slightly fossiliferous, granular to fnxln, dense, hard, cherty

Lm - cream-tan, slightly fossiliferous, medxln, brittle, bedded chalk in part

Lm - tan, slightly fossiliferous, medxln, bedded chalk, black chert

Lm - tan, fnxln to granular, bedded chalk, fusilinids

Sh - black, carbonaceous, waxy, soft, fissile

Lm - cream, fnxln to lithographic in part, dense, very hard

Lm - cream-tan, clean and bright, vfxln to lithographic, dense, very hard

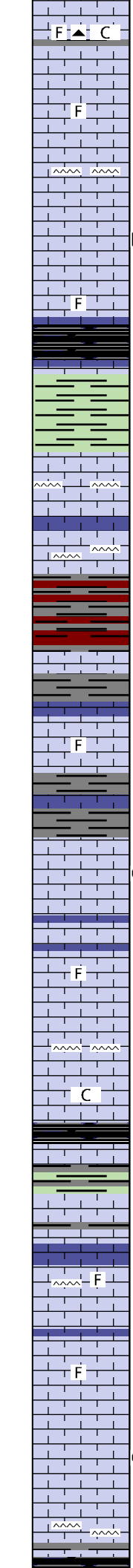
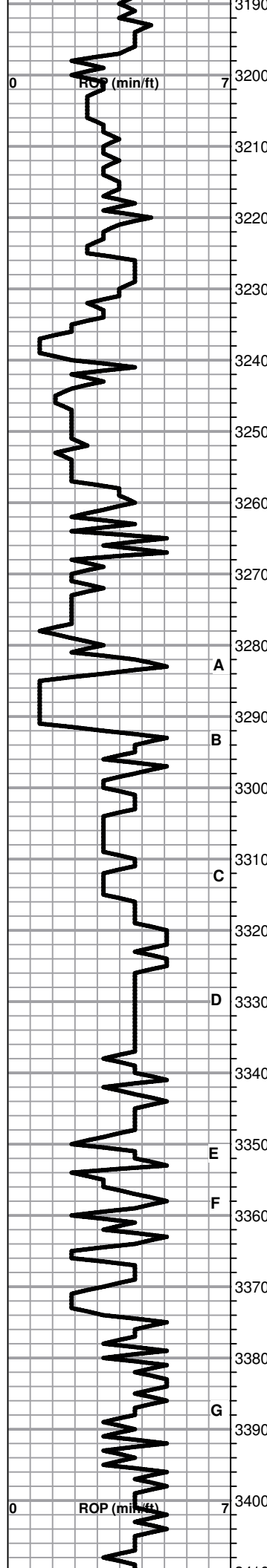
Lm - cream-light gray, slightly fossiliferous, vfxln, dense, hard, dark gray chert

Sh - black, carbonaceous, firm, waxy, fissile, bronze specks throughout

Lm - cream-tan, fxn to granular, brittle, chalky, fusilinids

Lm - tan, fossiliferous, fnxln to granular in some, brittle, chalky, no shows





Lm - cream-tan, fnxln, brittle, slightly chalky, black fossiliferous chert

F

Lm - tan, slightly fossiliferous, bedded chalk

Lm - tan-light gray, fnxln, brittle, bedded chalk, cherty

D

Lm - cream-tan, granular, scattered dark brown gilsonitic stain, NSFO, no odor

F

Lm - tan, fnxln, slightly fossiliferous, dense, brittle

**HEEBNER SPL 3238 (-1195) ELOG 3235 (-1192)**

Sh - black, carbonaceous, waxy, fissile

Sh - greenish gray, soft, blocky, forming sticky clumps

**TORONTO SPL 3261 (-1218) ELOG 3254 (-1211)**

Lm - offwhite, vfxln, dense, hard, cherty

Lm - cream-offwhite, granular to fnxln, brittle, cherty, no shows

Sh - maroon/gray, soft, blocky, forming sticky clumps in part

**LKC SPL 3285 (-1242) ELOG 3280 (-1237)**

Lm - cream, fnxln, dense, very hard

Sh - light gray, soft, blocky

B

F

Lm - tan, slightly fossiliferous, fnxln, dense, hard

Sh - medium gray, soft, blocky, some sticky

C

Lm - cream-tan, mostly fnxln, hard, a few chips with fine pinpoint porosity and slight scattered light brown stain, good streaming wet cut under UV light, faint odor, overall very limited total porosity

D

F

Lm - cream-tan, slightly fossiliferous, vfxln, poorly developed, very hard, tight, no shows

Lm - cream, vfxln, no visible porosity, dense, very hard, cherty

C

Lm - cream-offwhite, clean and bright, no visible porosity, hard, brittle, slightly chalky

Sh - black, carbonaceous, soft, waxy

Lm - cream, vfxln, dense, hard

Sh - light greenish gray, soft, blocky

F

Lm - cream-offwhite, dense, hard, vfxln, slightly fossiliferous, slight bedded chalk, cherty

F

Lm - cream-light gray, slightly fossiliferous in some, mostly fnxln, dense, hard, brittle, bedded chalk

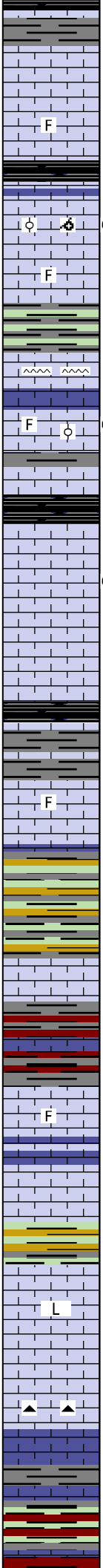
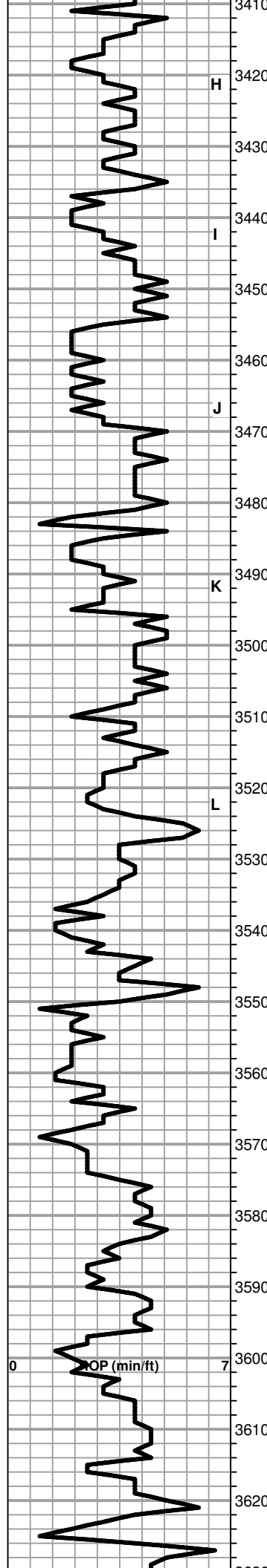
G

Lm - cream,fnxln, hard, couple chips with slight scattered pinpoint porosity and light stain, NSFO, no odor

Lm - cream, fnxln, bright and clean, bedded chalk, cherty

Sh - black carbonaceous firm fissile

MUD WT 8.9  
VIS 52



Sh - black, carbonaceous, firm, fissile

Lm - tan-light gray, fnxln, hard, brittle, slight bedded chalk

Sh - dark gray / black, carbonaceous, fissile

Lm - cream, oolitic / oomoldic, slight scattered interxln porosity with scattered vugs, rare light golden brown stain, NSFO, no odor, limited total porosity

Lm - cream-light gray, fnxln, slightly fossiliferous, dense, hard

Sh - light greenish gray, firm, blocky

Lm - cream-tan, fnxln, very hard, cherty

Lm - cream, fossiliferous, slightly oolitic, slight scattered fine interxln porosity with slight scattered stain, a few specks of free oil upon crush, limited total porosity

Sh - black, carbonaceous, firm, fissile

Lm - cream, fnxln with slight scattered fine interxln porosity, slight scattered golden brown stain, NSFO, no odor

Sh - black, carbonaceous, waxy, soft

Sh - light gray, soft, blocky, forming sticky clumps in part

Lm - light gray-cream, fossiliferous, fnxln to granular, dense, brittle, slight bedded chalk in part

**BKC SPL 3532 (-1488) ELOG 3529 (-1486)**

Sh - light gray / green / brown, firm, blocky

Lm - offwhite, granular, well cemented, hard, brittle

Sh - maroon / light gray, soft, very sticky

Lm - light gray-cream, fossiliferous, dense, well cemented, very hard, no visible porosity

Sh - light green / gray / brown, firm, blocky

Lm - tan-light gray, fnxln to lithographic, dense, very hard

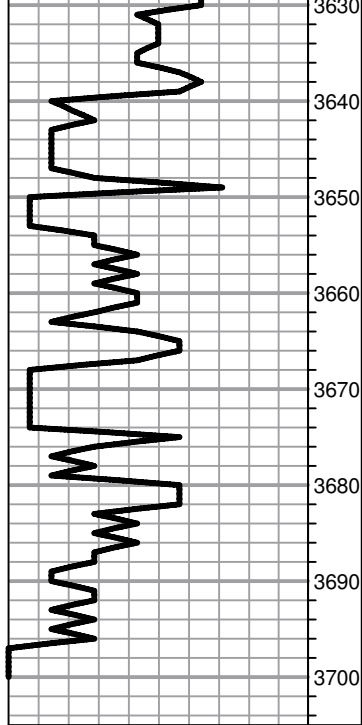
Lm - cream, fnxln to granular, brittle, bedded chalk, orange chert

Sh - light green / brown, soft, blocky, some sticky maroon clumps

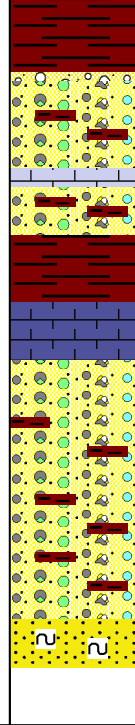
MUD WT 9.0  
VIS 65

MUD WT 9.0  
VIS 62

MUD WT 9.0  
VIS 58



3630  
3640  
3650  
3660  
3670  
3680  
3690  
3700



Sh - maroon / orange, very soft, extremely sticky clumps, forming red wash

Conglomerate - Lm's various colors and textures,  
Sh's green, maroon, orange, brown, gray  
Cherts, orange, white, yellow, brown, black opaque

Sh - maroon, soft, very sticky

Conglomerate - A/A with extreme red wash and maroon sticky clumps

Conglomerate - A/A

SS - bright green, glauconitic, well cemented hard clusters, no shows

**RTD 3700 (-1657) LTD 3698 (-1655)**