Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1262954

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 8925
Name: Liberty Oper & Compl, Inc
Address 1: 100 SW 9TH
Address 2:
City: PLAINVILLE State: KS Zip: 67663 + 2229
Contact Person: ROGER COMEAU
Phone: (785) 434-4686
CONTRACTOR: License # 34743
Name: White Knight Drilling LLC
Wellsite Geologist: HERB DEINES
Purchaser:

Designate Type of Completion:

☐ New Well ☑ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

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

Operator: E.K. CAREY DRLG CO
Well Name: ELLIS #1
Original Comp. Date: 12/31/1950 Original Total Depth: 3457

☑ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

8/29/2015	8/30/2015	8/31/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-163-00367-00-01
Spot Description:
_ - SE - SW - SE Sec. 36 Twp. 7 S. R. 19 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
1350 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Rooks
Lease Name: Lindsey Well #: 1
Field Name:
Producing Formation: ARBUCKLE
Elevation: Ground: 1922 Kelly Bushing: 1927
Total Vertical Depth: 3566 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 145 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: 09/30/2015
☑ **Confidential Release Date:** 09/29/2017
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 09/30/2015

[redacted] 1262954

Operator Name: Liberty Oper & Compl, Inc Lease Name: Lindsey Well #: 1

Sec. 36 Twp. 7 S. R. 19 ☐ East ☑ West County: Rooks

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 (Attach Additional Sheets)	☐ Yes	☑ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geolgist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
ANHYDRITE	1363	+564
TOPEKA	2858	-931
HEEBNER SHALE	3063	-1136
LKC	3102	1175-
BKC	3323	-1396
ARBUCKLE	3407	-1480
GRANITE WASH	3498	1571

CASING RECORD ☐ New ☐ 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
Conductor	15	13	26	145	COMMON	115	none
Production	7.875	5.5	14	0	0	0	0

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Liberty Oper & Compl, Inc
Well Name	Lindsey 1
Doc ID	1262954

All Electric Logs Run

DUAL INDUCTION LOG
COMPENSATED DENSITY NEUTRON LOG
MICRO RESISTIVITY LOG
BOREHOLE COMPENSATED SONIC LOG

Form	ACO1 - Well Completion
Operator	Liberty Oper & Compl, Inc
Well Name	Lindsey 1
Doc ID	1262954

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	15	13	26	145	COMMON	115	none
Production	7.875	5.5	14	0	0	0	0

OPERATOR

Company:	LIBERTY OPERATIONS _COMPLETIONS INC.		
Address:	100 SW 9TH PLAINVILLE, KANSAS 67663-2229		
Contact Geologist:	ROGER COMEAU		
Contact Phone Nbr:	785-434-4686		
Well Name:	LINDSEY # 1		
Location:	SE SW SE		
API:	15-163-00367-00-01		
Pool:		Field:	WEBSTER VIEW
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	LINDSEY # 1		
Surface Location:	SE SW SE		
Bottom Location:			
API:	15-163-00367-00-01		
License Number:	8925		
Spud Date:	8/29/2015	Time:	2:00 AM
Region:	ROOKS COUNTY		
Drilling Completed:	8/30/2015	Time:	9:48 AM
Surface Coordinates:	330' FSL & 1350' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1922.00ft		
K.B. Elevation:	1927.00ft		
Logged Interval:	2700.00ft	To:	3566.00ft
Total Depth:	3510.00ft		
Formation:	ARBUCKLE		
Drilling Fluid Type:	CHEMICAL/FRESH WATER GEL		

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.3844706
Latitude:	39.3948965
N/S Co-ord:	330' FSL
E/W Co-ord:	1350' FEL

LOGGED BY

SOLUTIONS CONSULTING

Company:	SOLUTIONS CONSULTING, INC.		
Address:	108 W 35TH HAYS, KS 67601		
Phone Nbr:	(785) 639-1337		
Logged By:	GEOLOGIST	Name:	HERB DEINES

CONTRACTOR

Contractor:	WHITE KNIGHT DRILLING LLC		
Rig #:	1		
Rig Type:	MUD ROTARY		
Spud Date:	8/29/2015	Time:	2:00 AM
TD Date:	8/30/2015	Time:	9:48 AM
Rig Release:	8/31/2015	Time:	9:00 AM

ELEVATIONS

K.B. Elevation:	1927.00ft	Ground Elevation:	1922.00ft
K.B. to Ground:	5.00ft		

NOTES

THE LINDSEY # 1 WAS A REENTRY OF AN OLD DRY AND ABANDONED WELL DRILLED IN 1950. THE WELL WAS

REENTERED AND WASHED DOWN TO THE LKC WHERE AN OUT OF GAUGE HOLE WAS ENCOUNTERED WHICH REQUIRED SOME REAMING. THE CONDITION AND WEAR PATTERN ON THE BIT CONFIRMED SUSPICIONS. ONCE IT WAS DETERMINED THAT THE HOLE WAS CLEAN TO THE OLD ROTARY TOTAL DEPTH, THE OLD STARCH MUD WAS DISPLACED WITH A FRESH CHEMICAL MUD SYSTEM TO ALLOW GOOD LOGS TO BE RAN AND POSSIBLE TESTING. AFTER DISPLACEMENT SOME ARTESIAN FLOW WAS NOTED AT THE FLOW LINE WHICH WAS CONTROLLED BY INCREASING THE MUD WEIGHT. DECISION TO RUN CASING BASED ON FAVORABLE STRUCTURE, LOG ANALYSIS AND UNFAVORABLE HOLE CONDITIONS WHICH MADE FURTHER TESTING RISKY.

OPEN HOLE LOGGING BY GEMINI WIRELINE: DUAL INDUCTION LOG, COMPENSATED DENSITY NEUTRON LOG, MICRO RESISTIVITY LOG AND BOREHOLE COMPENSATED SONIC LOG

NO DRILL STEM TESTS WERE RAN ON THE WELL.

	LINDSEY # 1	**HILGERS B-1**	**FARR # 2**
	SE SW SE	**NW NW NE**	**SW NW NE NE**
	SEC.36-7S-19W	**SEC.1-8-19W**	**SEC.1-8-19W**
	1922'GL 1927'KB	**KB 1940'**	**KB 1930'**
FORMATION	LOG TOPS	LOG TOPS	LOG TOPS
Anhydrite	**1363 +564**	**+ 565**	**+ 575**
B-Anhydrite	**1398 +529**	**+ 530**	**+ 538**
Topeka	**2858- 931**	**- 936**	**- 936**
Heebner Sh.	**3063-1136**	**-1142**	**-1144**
LKC	**3102-1175**	**-1182**	**-1180**
BKC	**3323-1396**	**-1406**	**-1406**
Arbuckle	**3407-1480**	**-1470**	**-1486**
RTD	**3566-1639**	**-1545**	**-1585**

SUMMARY OF DAILY ACTIVITY

8-28-15	**Move and rig up mud rotary rig**
8-29-15	**Spud 2:00 AM, drill cement plug, wash down to OTD with old starch mud in hole**
8-30-15	**3510', displaced old mud system with chemical mud system, RTD 3566' @9:48AM, mini short trip, CCH, TOWB, slope survey 1 degree @ 3566', logs-DIL-CDNL-MEL-BCS, TIWB, CCH, LDDP**
8-31-15	**3566', run production casing and cement bottom and top stages, RD**

ROCK TYPES

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

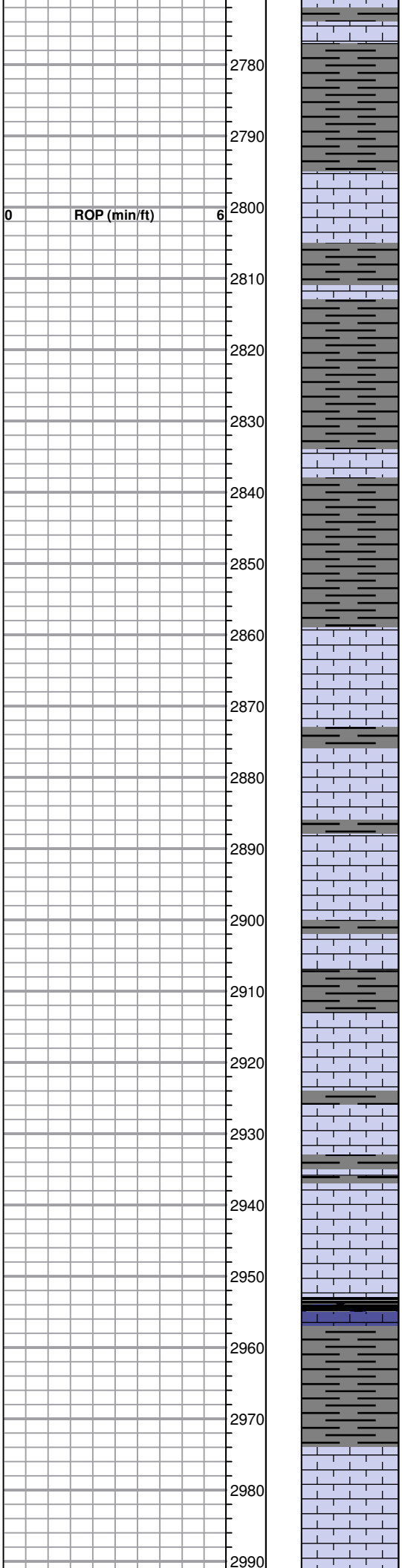
ACCESSORIES

MINERAL

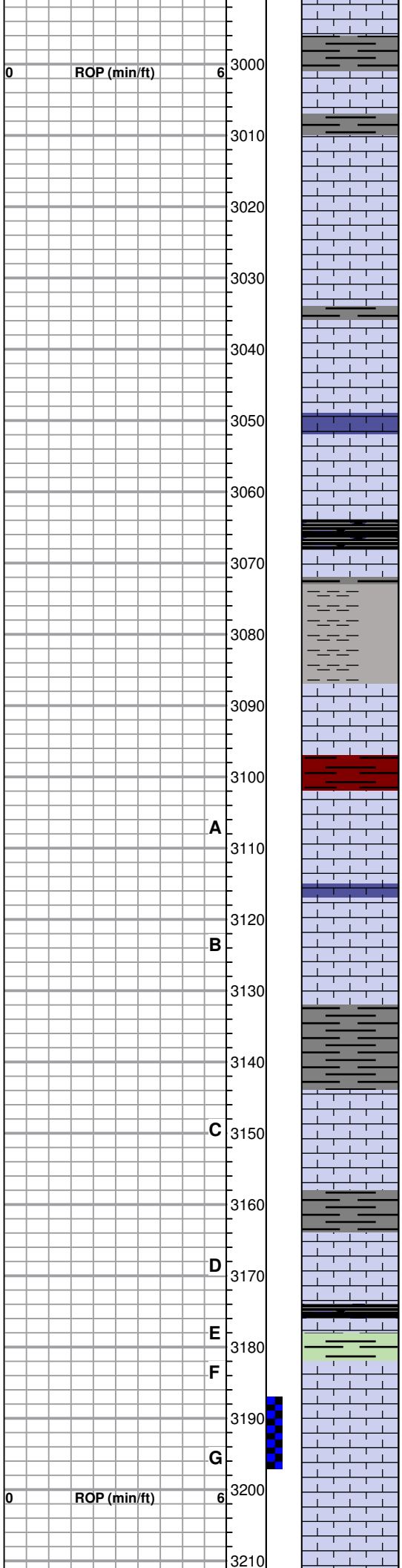
- Sandy

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

Curve Track #1 ROP (min/ft) 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) 6	2700 2710 2720 2730 2740 2750 2760 2770				SAMPLES CAUGHT FROM 3517' TO RTD **ANHYDRITE TOP 1363+564** **ANHYDRITE BASE 1398+529**	**13" SURFACE CASING SET TO 145' CWC W/ 115 SXS,** **OWWO OF D&A DRILLED BY E.K. CAREY, etal NAMED THE ELLIS # 1. SPUDDED 12/17/50 AND PLUGGED 12/31/50 LOGGED BY SCLUMBERGER WELL SURVEYING CORPORATION. RAN ELECTRICAL OPEN HOLE LOG**



TOPEKA 2858-931



HEEBNER SHALE 3064-1137

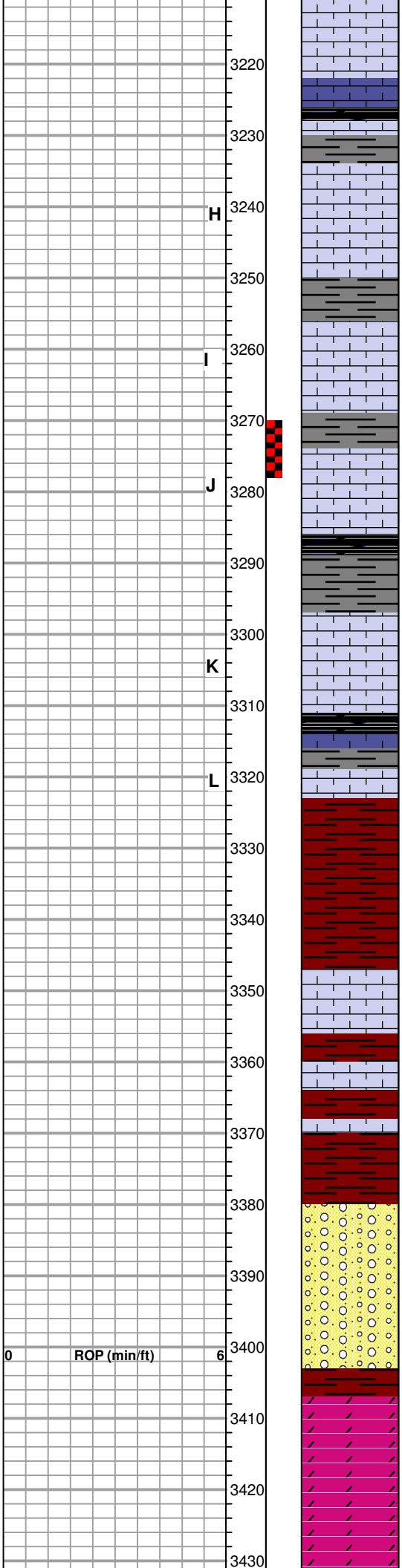
TORONTO 3086-1159

LKC 3102-1175

LOG INTERVAL 3104 TO 3106 SHOULD BE PERFORATED AND TESTED.

LOG INTERVAL 3143 TO 3145 SHOULD BE PERFORATED AND TESTED PRIOR TO ABANDONMENT OF WELL

DST # 1 3187' TO 3195'
OPEN 30 MINUTES
WEAK BLOW 20 MINUTES
RECOVERED 36' SALT WATER
B.H.P. 950#



BKC 3323-1396

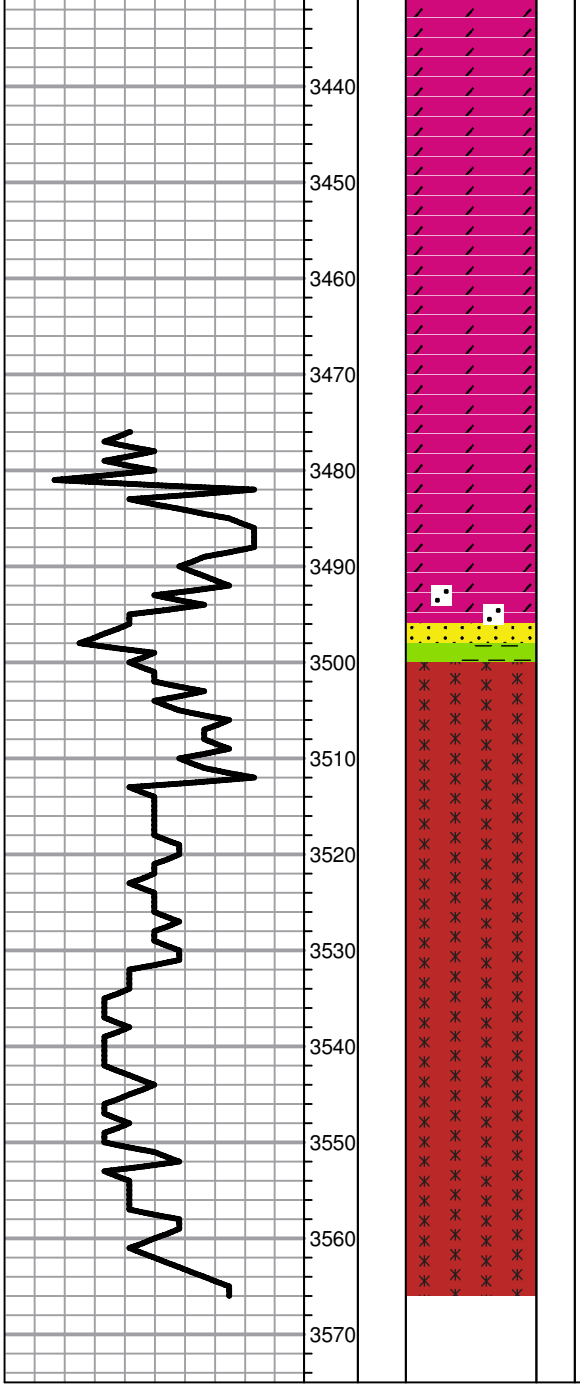
ARBUCKLE 3407-1480

LOG INTERVAL 3235 TO 3238 SHOULD BE PERFORATED AND TESTED PRIOR TO ABANDONMENT OF WELL

DST # 2 3270' TO 3278'
OPEN 30 MINUTES
WEAK BLOW FOR 2 MINUTES
RECOVERED 5' DRILLING MUD
B.H.P. 976#

LOG INTERVAL 3274 TO 3280 SHOULD BE PERFORATED AND TESTED PRIOR TO ABANDONMENT OF WELL. EVEN THOUGH THE ZONE WAS TESTED, THE BHP PRESSURE OF 975# WAS GOOD. MICROLOG SHOWS SOME PERMEABILITY ALBEIT THINLY DEVELOPED

LOG INTERVAL 3436 TO 3443 SHOULD BE PERFORATED AND TESTED. THIS ZONE



APPEARS TO CORRESPOND TO THE SAME ZONE IN THE SECOND BREAK IN THE FARR # 2 OWWO BUT APPEARS TO BE HIGHER IN STRUCTURE.

OLD ROTARY TOTAL DEPTH 3457-1530

GRANITE WASH 3498-1571

Quartz, black mica and red to orange feldspars
Some offwhite to pearl dolomite, fnxln-coarse granular with rhombic development in part. Few chips with lt saturated staining, no odor or SFO due to how low samples were started. Few chips of coarse sandstone, lightly cemented with dolomite, No stain, No Odor, NFO

3517' STOPPED AND DISPLACED OLD STARCH MUD WITH FRESH CHEMICAL MUD. STARTED WET AND DRY SAMPLES AFTER DISPLACEMENT

Quartz, black mica and red to orange feldspars as above

5 1/2' PRODUCTION CASING SET TO RTD-1'. DV SET IN ANHYDRITE AND CEMENTED TO SURFACE WITH 450 SXS CEMENT WHICH DID CIRCULATE TO SURFACE

Quartz, black mica and red to orange feldspars as above

RTD 3566-1639

SLOPE 1 DEGREE @3566'