



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1231788
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: _____



1231788

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
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Jason Oil Company, LLC
Well Name	Steinert B 3
Doc ID	1231788

Tops

Name	Top	Datum
anhydrite top	922	+943
anhydrite base	960	+905
grand haven	2490	-625
dover lime	2525	-660
tarkio	2567	-702
Topeka	2823	-958
heebner	3048	-1183
toronto	3067	-1202
lkc	3106	-1241
arbuckle	3380	-1515

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 752

Date	9-18-14	Sec.	21	Twp.	15	Range	15	County	Russell	State	KS	On Location	4:45 AM	Finish	8:15 AM
Lease								Location		Gorham S to River 1 S					

Contractor	Royal	Well No.	3	Owner	to Stickey RJ 3/4 E Wick										
Type Job	Long Stems	T.D.		3940	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	7 7/8	Depth			Charge To	Jason Oil									
Csg.	S 1/2	Depth			Street										
Tbg. Size		Depth			City	State									
Tool		Depth			The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	17.07	Shoe Joint	17.07ft	Cement Amount Ordered	180 cown										
Meas Line	15.5	Displace	81.5 BBL		10% Salt + 5% Gilsom +										

EQUIPMENT

Pumptrk	20	No.	Cementer	MIT
			Helper	
Bulktrk	1	No.	Driver	Nick
			Driver	
Bulktrk	pu	No.	Driver	Ryan
			Driver	

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30 S 1/2

Mouse Hole 15 S 1/2

Centralizers #2, 4, 6

Baskets #2

D/V or Port Collar

Dropped Ball Centralizer

1 hour Pump mud plus

plug Retard mouse hole

Mix 135 S 1/2 down hole

Displaced with water

Lift 700 - PSI

Land 1500 - PSI

Common
Poz. Mix
Gel.
Calcium
Hulls
Salt
Flowseal
Kol-Seal
Mud CLR 48 500g
CFL-117 or CD110 CAF 38
Sand
Handling
Mileage 5 1/2
Guide Shoe
Centralizer 3 Turbos
Baskets 1
AFU Inserts
Float Shoe 1
Latch Down 1
Rubber Plug
Pumptrk Charge
Mileage

FLOAT EQUIPMENT

X _____

[Signature]

Tax
Discount
Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 347

Date	9-12-14	Sec.	21	Twp.	15	Range	15	County	Russell	State	KS	On Location		Finish	12:30 PM																
Lease	Steinert B			Well No.	3			Location	Gorham 9 to Sticky BD			Owner	34 E Ninto																		
Contractor	Royal			1			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.																								
Type Job	Surface						Charge To NGH Oil Operations																								
Hole Size	12 1/4			T.D.	925			Street																							
Csg.	4 5/8			Depth	923			City																							
Tbg. Size				Depth				State																							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.																							
Cement Left in Csg.	27			Shoe Joint	27			Cement Amount Ordered	375			390 CC																			
Meas Line				Displace	57.5 BBL			290 gal																							
EQUIPMENT																															
Pumptrk	20	No.		Cementer/Helper	Matt			Common																							
Bulktrk	4	No.		Driver	Nick			Poz. Mix																							
Bulktrk	pu	No.		Driver	Chad			Gel.																							
JOB SERVICES & REMARKS																															
Remarks:				Hulls																											
Rat Hole				Salt																											
Mouse Hole				Flowseal																											
Centralizers				Kol-Seal																											
Baskets				Mud CLR 48																											
D/V or Port Collar				CFL-117 or CD110 CAF 38																											
<p style="font-size: 2em; opacity: 0.5;">Quality Oilwell Cementing</p> <p style="font-size: 3em; opacity: 0.5;">Cementing</p>																															
																Sand															
																Handling															
																Mileage 89/8															
																FLOAT EQUIPMENT															
																Guide Shoe															
																Centralizer 2															
																Baskets 1															
																AFU Inserts															
																Float Shoe															
Latch Down																															
Baffle plate																															
Bubble plug																															
Pumptrk Charge																															
Mileage																															
													Tax																		
													Discount																		
													Total Charge																		
<p>X Signature <i>Steph...</i></p>																															



DIAMOND TESTING, LLC

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STNRT3DST1

Company NGH Oil Operations Lease & Well No. Steinert "B" No. 3
 Elevation 1865 KB Formation Toronto-Lansing/Kansas City "C" Effective Pay _____ Ft. Ticket No. M707
 Date 9-16-14 Sec. 21 Twp. 15S Range 15W County Russell State Kansas
 Test Approved By Steve Reed Diamond Representative Mike Cochran

Formation Test No. 1 Interval Tested from 3,069 ft. to 3,134 ft. Total Depth 3,134 ft.
 Packer Depth 3,064 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 3,069 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,058 ft. Recorder Number 0063 Cap. 5,000 psi.
 Bottom Recorder Depth (Outside) 3,071 ft. Recorder Number E1150 Cap. 5,000 psi.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor Royal Drilling, Inc. - Rig 1 Drill Collar Length _____ ft I.D. _____ in.
 Mud Type Chemical Viscosity 55 Weight Pipe Length _____ ft I.D. _____ in.
 Weight 8.7 Water Loss 8.4 cc. Drill Pipe Length 3,044 ft I.D. 3 1/2 in.
 Chlorides 3,000 P.P.M. Test Tool Length 25 ft Tool Size 3 1/2-IF in.
 Bars: Make Sterling Serial Number Not Run Anchor Length 33' perf. w/32' drill pipe Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong, surface blow increasing. Off bottom of bucket in 1 1/2 mins. No blow back during shut-in.
 2nd Open: Strong, surface blow increasing. Off bottom of bucket in 1 1/2 mins. Fair, 4 in. blow back during shut-in.

Recovered 360 ft. of gas in pipe
 Recovered 267 ft. of gas & heavy oil cut mud = 3.799410 bbls. (Grind out: 4%-gas; 41%-oil; 55%-mud)
 Recovered 267 ft. of TOTAL FLUID = 3.799410 bbls.
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 100%-oil w/some gassy bubbles (Gravity: 37.3 @ 60°)

Time Set Packer(s) 2:45 A.M. Time Started off Bottom 4:45 A.M. Maximum Temperature 96°
 Initial Hydrostatic Pressure.....(A) 1481 P.S.I.
 Initial Flow Period.....Minutes 15 (B) 60 P.S.I. to (C) 106 P.S.I.
 Initial Closed In Period.....Minutes 45 (D) 397 P.S.I.
 Initial Flow Period.....Minutes 15 (E) 143 P.S.I. to (F) 187 P.S.I.
 Initial Closed In Period.....Minutes 45 (G) 375 P.S.I.
 Initial Hydrostatic Pressure.....(H) 1458 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	NGH OIL OPERATIONS	Job Number	M707
Well Name	STEINERT "B" #3	Representative	MIKE COCHRAN
Unique Well ID	DST #1 TORONTO-LKC "C" 3069-3134	Well Operator	NGH OIL OPERATIONS
Surface Location	SEC 21-15S-15W RUSSELL CO.KS.	Report Date	2014/09/16
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	STEVE REED
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST #1 TORONTO-LKC "C" 3069-3134		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/09/16	Start Test Time	00:50:00
Final Test Date	2014/09/16	Final Test Time	07:10:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
 360' GIP
 267' GHOCM 4% GAS, 41% OIL, 55% MUD
 267' TOTAL FLUID

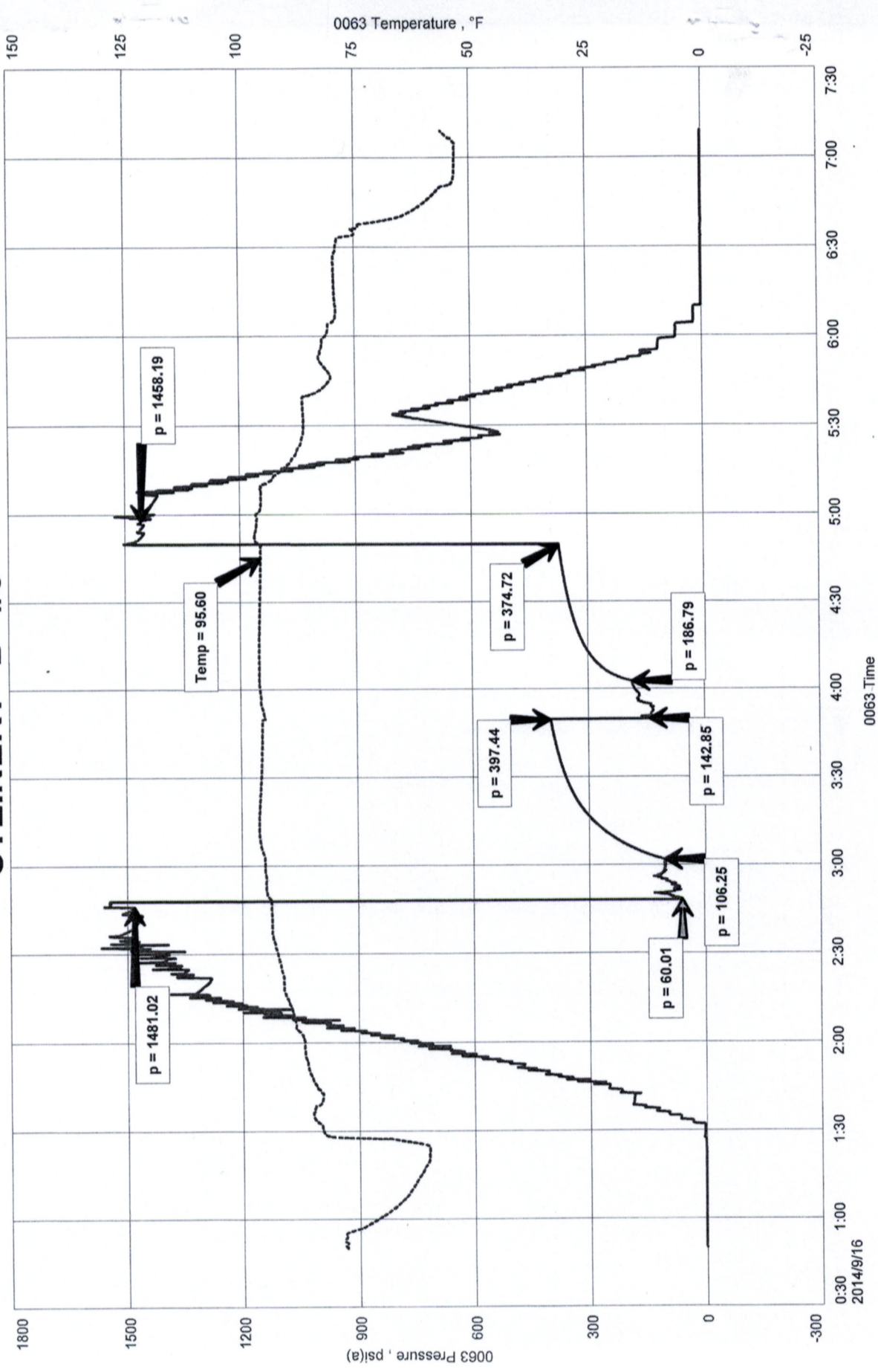
GRAVITY: 37.3 @ 60 DEG

TOOL SAMPLE: 100% OIL W/ SOME GASSY BUBBLES

NGH OIL OPERATIONS
DST #1 TORONTO-LKC "C" 3069-3134
Start Test Date: 2014/09/16
Final Test Date: 2014/09/16

STEINERT "B" #3
Formation: DST #1 TORONTO-LKC "C" 3069-3134
Pool: WILDCAT
Job Number: M707

STEINERT "B" #3



OPERATOR

Company: JASON OIL COMPANY, LLC / NGH OIL OPERATIONS
 Address: 3718-83RD STREET
 PO BOX 701
 RUSSELL, KS 67665-0701
 Contact Geologist: JIM SCHOENBERGER
 Contact Phone Nbr: 785-483-4204
 Well Name: STEINERT B #3
 Location: NE SW NE SW S21 T15S R15W
 API: 15-167-24001-00-00
 Pool:
 State: KANSAS
 Field: STEINERT
 Country: USA

Scale 1:240 Imperial

Well Name: STEINERT B #3
 Surface Location: NE SW NE SW S21 T15S R15W
 Bottom Location:
 API: 15-167-24001-00-00
 License Number: 33813
 Spud Date: 9/11/2014 Time: 2:30 PM
 Region: RUSSELL COUNTY
 Drilling Completed: 9/17/2014 Time: 6:22 PM
 Surface Coordinates: 1760 FSL & 1820 FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1858.00ft
 K.B. Elevation: 1865.00ft
 Logged Interval: 2450.00ft To: 3440.00ft
 Total Depth: 3440.00ft
 Formation: LANSING / KANSAS CITY
 Drilling Fluid Type: CHEMICAL / FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.9973716
 Latitude: 38.7304167
 N/S Co-ord: 1760 FSL
 E/W Co-ord: 1820 FWL

LOGGED BY

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

Phone Nbr: (785) 639-1337
 Logged By: Geologist

Name: STEVE REED

CONTRACTOR

Contractor: ROYAL DRILLING, INC
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 9/11/2014 Time: 2:30 PM
 TD Date: 9/17/2014 Time: 6:22 PM
 Rig Release: 9/18/2014 Time: 10:00 AM

ELEVATIONS

K.B. Elevation: 1865.00ft Ground Elevation: 1858.00ft
 K.B. to Ground: 7.00ft

NOTES

BASED ON FAVORABLE STRUCTURAL POSITION IN THE LANSING/KANSAS CITY COMPARED TO SURROUNDING WELLS AND THE POSITIVE RESULTS OF DST #1, THE DECISION WAS MADE TO SET 5 1/2" PRODUCTION CASING TO FURTHER TEST THE PRODUCTIVITY OF THE WELL

OPEN HOLE LOGGING PROVIDED BY: GEMINI WIRELINE
 DUAL INDUCTION LOG, COMPENSATED DENSITY NEUTRON LOG, AND MICRO RESISTIVITY LOGS
 WERE COMPLETED

DRILL STEM TESTING PROVIDED BY: DIAMOND TESTING
 TWO (2) CONVENTIONAL TESTS WERE PERFORMED

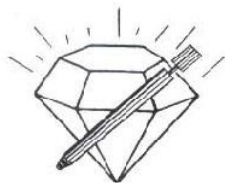
FORMATION TOPS COMPARISON AND DAILY ACTIVITY SUMMARY

	WELL NAME		COMPARISON WELL	COMPARISON WELL
	STEINERT B #3		STEINERT #4	STEINERT #2
	API: 15-167-24001		API: 15-167-22151	API: 15-167-20060
FORMATION	SAMPLE TOPS	LOG TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)
ANHYDRITE TOP	922' (+943')	922' (+943')	+944'	+940'
ANHYDRITE BASE	960' (+905')	950' (+915')	+913'	NA
GRAND HAVEN	2490' (-625')	2492' (-627')	NA	NA
DOVER LIME	2525' (-660')	2522' (-657')	NA	NA
STOTLER/TARKIO LM	2567' (-702')	2564' (-699')	NA	NA
TOPEKA	2823' (-958')	2820' (-955')	-959'	-962'
HEEBNER	3048' (-1183')	3046' (-1181')	-1184'	-1186'
TORONTO	3067' (-1202')	3062' (-1197')	-1203'	-1205'
DOUGLAS SHALE	3081' (-1216')	3079' (-1214')	-1219'	-1221'
LKC	3106' (-1241')	3104' (-1239')	-1245'	-1246'
BKC	3334' (-1469')	3331' (-1466')	-1470'	-1472'
ARBUCKLE	3380' (-1515')	3376' (-1511')	-1494'	-1513'
RTD	3440' (-1575')	3439' (-1574')	-1519'	-1562'

SUMMARY OF DAILY ACTIVITY

- 9-11-14 R.U., drill rat and mouse hole, drilling surface
- 9-12-14 850', drilling, 8 5/8" surface casing set at 925' w/325 sxs common, 2% gel, 3%cc, WOC, drilling
- 9-13-14 1290', drilling
- 9-14-14 2312', drilling
- 9-15-14 2921', drilling, CFS @ 3112', CFS @ 3134', short trip, CTCH, TOWB, survey 1°, strap 1.05 short to board, DST #1 3069' to 3134'
- 9-16-14 3134', TIHWB, drilling, CFS @ 3258', CFS @ 3300, CFS @ 3320, mini trip (6 stands), CTCH, DST #2 3232' to 3320'
- 9-17-14 3320', TOHWT, TIHWB, circulate 30 minutes, drilling, CFS @ 3261, CFS @ 3268, TD of 3440 reached @ 6:22pm, CTCH, TOWB for logs, Survey 1°, logging, prepare to set 5 1/2" production casing
- 9-18-14 release rig

DST #1 SUMMARY



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: STNRT3DST1

TIME ON: 0050
 TIME OFF: 0710

Company JASON OIL COMPANY, LLC Lease & Well No. STEINERT B #3
 Contractor ROYAL DRILLING, INC. RIG #1 Charge to NGH OIL OPERATIONS
 Elevation 1865 KB Formation TORONTO-LKC "C" Effective Pay _____ Ft. Ticket No. M707
 Date 9/16/2014 Sec. 21 Twp. _____ 15 S Range _____ 15 W County RUSSELL State KANSAS
 Test Approved By STEVE REED Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3069 ft. to 3134 ft. Total Depth 3134 ft.
 Packer Depth 3064 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 3069 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3058 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3071 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 55 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 8.7 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3,000 P.P.M. Drill Pipe Length 3044 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 65 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (32' DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SSB, BOB 1 1/2 MIN (NO BB)
 2nd Open: SSB, BOB 1 1/2 MIN (4" BB)

Recovered 360 ft. of GIP GRAVITY: 37.3 @ 60°
 Recovered 267 ft. of GHOCM 4% GAS, 41% OIL, 55% MUD
 Recovered 267 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance
Remarks: _____	Total

TOOL SAMPLE: 100% OIL W/ SOME GASSY BUBBLES

Time Set Packer(s) 2:45 A.M. A.M. P.M. Time Started Off Bottom 4:45 A.M. A.M. P.M. Maximum Temperature 96°F
 Initial Hydrostatic Pressure..... (A) 1481 P.S.I.
 Initial Flow Period..... Minutes 15 (B) 60 P.S.I. to (C) 106 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 397 P.S.I.
 Final Flow Period..... Minutes 15 (E) 143 P.S.I. to (F) 187 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 375 P.S.I.
 Final Hydrostatic Pressure..... (H) 1458 P.S.I.

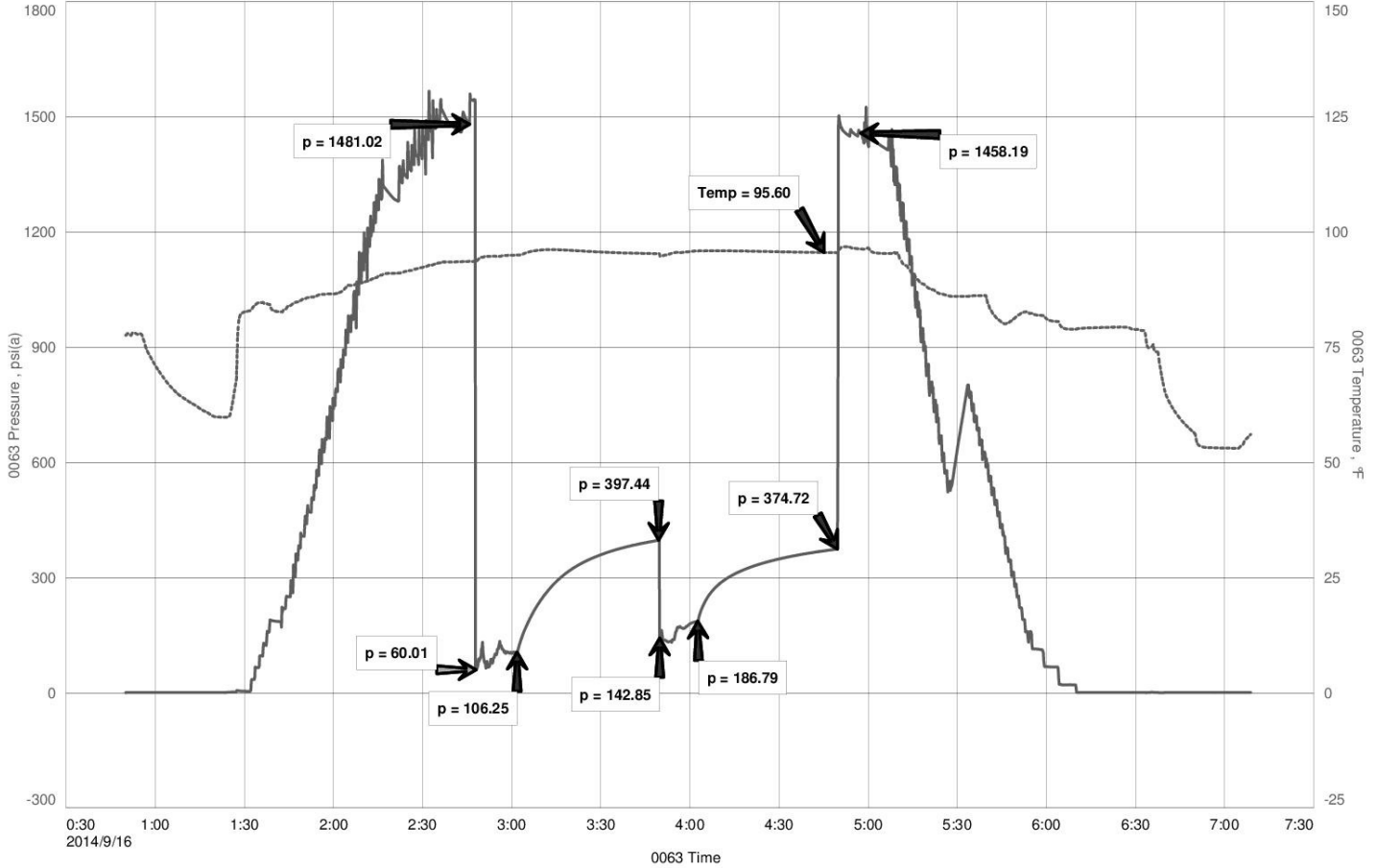
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

DST #1 PRESSURE VS TIME CHART

JASON OIL COMPANY, LLC
 DST#1 3069-3134 TORONTO-LKC "C"
 Start Test Date: 2014/09/16
 Final Test Date: 2014/09/16

STEINERT B #3
 Formation: DST#1 3069-3134 TORONTO-LKC "C"
 Pool: WILDCAT
 Job Number: M707

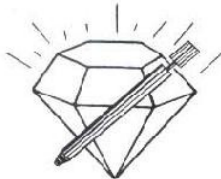
STEINERT B #3



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DST #2 SUMMARY



DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: STNRT3DST2

TIME ON: 0300

TIME OFF: 0905

Company <u>JASON OIL COMPANY, LLC</u>		Lease & Well No. <u>STEINERT B #3</u>	
Contractor <u>ROYAL DRILLING, INC. RIG #1</u>		Charge to <u>NGH OIL OPERATIONS</u>	
Elevation <u>1865 KB</u>	Formation <u>KC "H-K"</u>	Effective Pay _____	Ft. Ticket No. <u>M708</u>
Date <u>9/17/2014</u>	Sec. <u>21</u>	Twp. <u>15 S</u>	Range <u>15 W</u> County <u>RUSSELL</u> State <u>KANSAS</u>
Test Approved By <u>STEVE REED</u>		Diamond Representative <u>MIKE COCHRAN</u>	
Formation Test No. <u>2</u>	Interval Tested from <u>3232 ft. to</u>	<u>3320 ft.</u>	Total Depth <u>3320 ft.</u>
Packer Depth <u>3227</u> ft.	Size <u>6 3/4</u> in.	Packer depth <u>NA</u> ft.	Size <u>6 3/4</u> in.
Packer Depth <u>3232</u> ft.	Size <u>6 3/4</u> in.	Packer depth <u>NA</u> ft.	Size <u>6 3/4</u> in.
Depth of Selective Zone Set _____			

Top Recorder Depth (Inside) 3221 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 3234 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Mud Type CHEM Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.
 Weight 8.9 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 5,000 P.P.M. Drill Pipe Length 3207 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number NA Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 88 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (62' DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB, INC. TO 3/4" IN 10 MIN. DIMINISHING TO A WSB @ SHUT IN (NO BB)
 2nd Open: NO BLOW, FLUSH TOOL, NO HELP (NO BB)

Recovered <u>4</u> ft. of <u>VSOSM ~100% MUD W/ A FEW SPOTS OF OIL</u>	
Recovered <u>4</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>1% GAS, 2% OIL, 97% MUD</u>	Total

Time Set Packer(s) 4:45 A.M. A.M. P.M. Time Started Off Bottom 7:25 A.M. A.M. P.M. Maximum Temperature 97°F
 Initial Hydrostatic Pressure..... (A) 1583 P.S.I.
 Initial Flow Period..... Minutes 45 (B) 10 P.S.I. to (C) 12 P.S.I.
 Initial Closed In Period..... Minutes 45 (D) 29 P.S.I.
 Final Flow Period..... Minutes 25 (E) 12 P.S.I. to (F) 15 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 24 P.S.I.
 Final Hydrostatic Pressure..... (H) 1564 P.S.I.

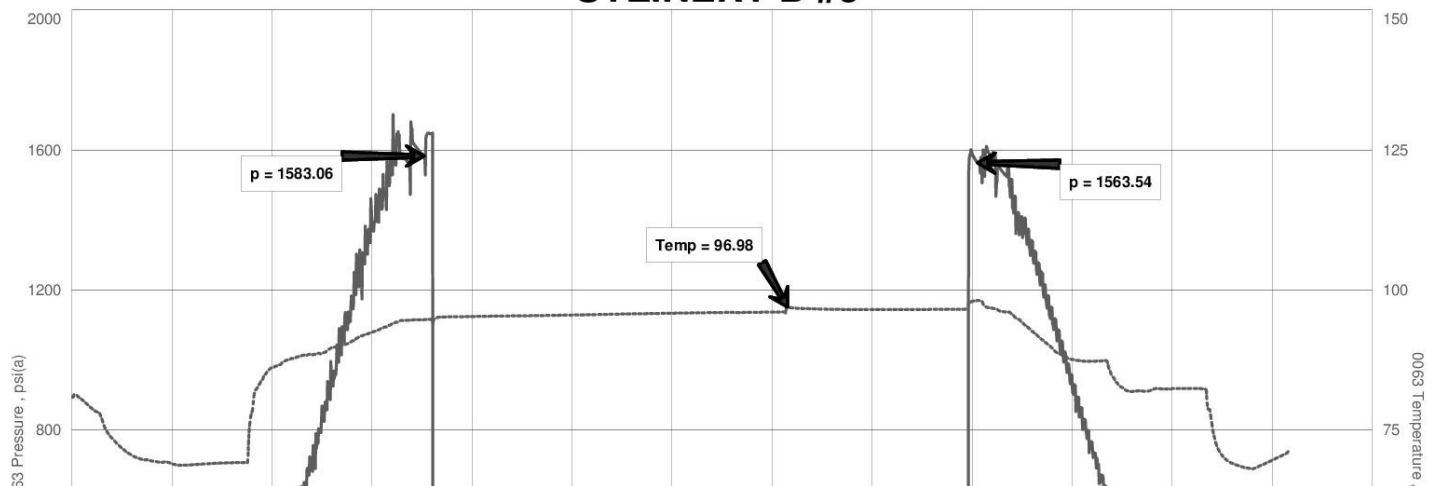
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

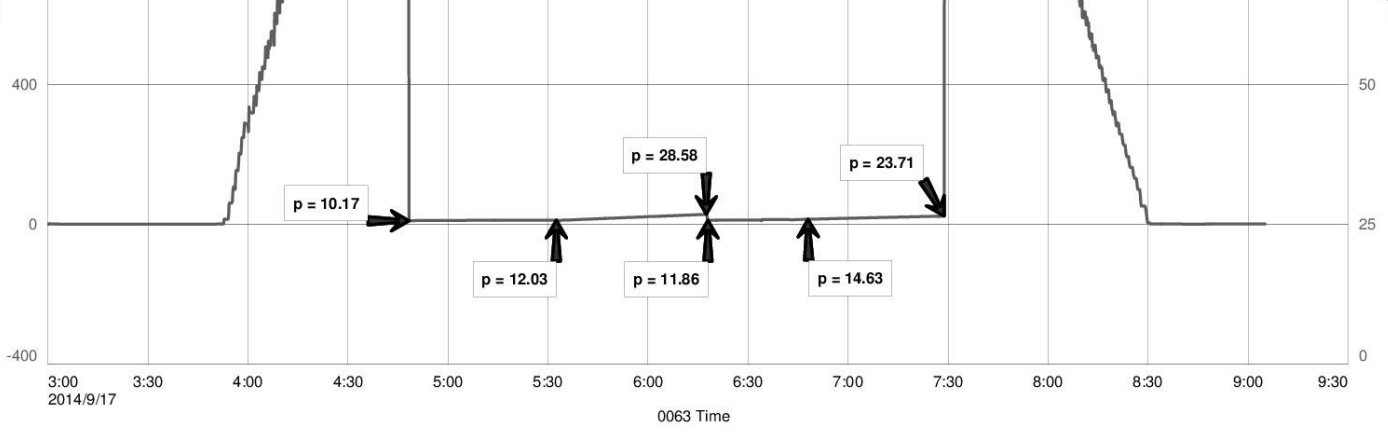
DST #2 PRESSURE VS TIME CHART

JASON OIL COMPANY, LLC
 DST#2 3232-3320 KC "H-K"
 Start Test Date: 2014/09/17
 Final Test Date: 2014/09/17

STEINERT B #3
 Formation: DST#2 3232-3320 KC "H-K"
 Pool: WILDCAT
 Job Number: M708

STEINERT B #3





C:\Users\Roger.Friedly\Documents\MIKEDST\STEINERT B #3\STNRT3DST2\STNRT3DST2CHT.FKT 17-Sep-14 Ver



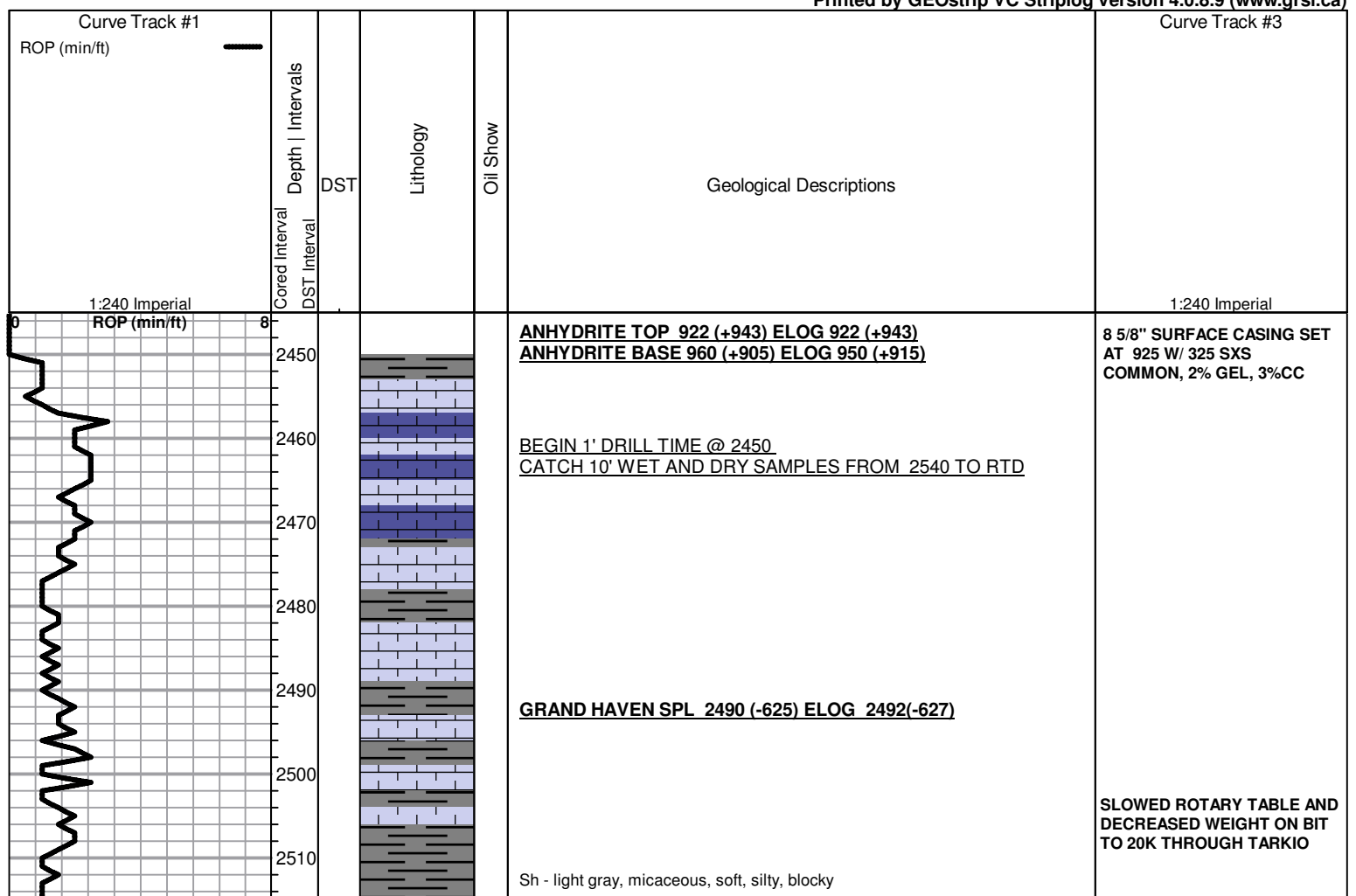
ROCK TYPES

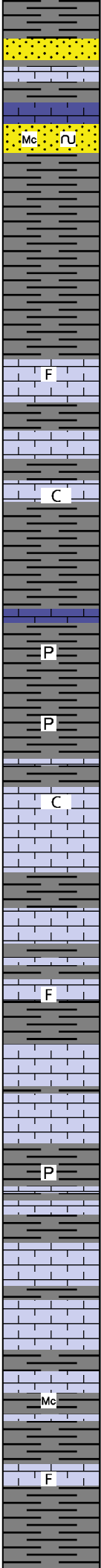
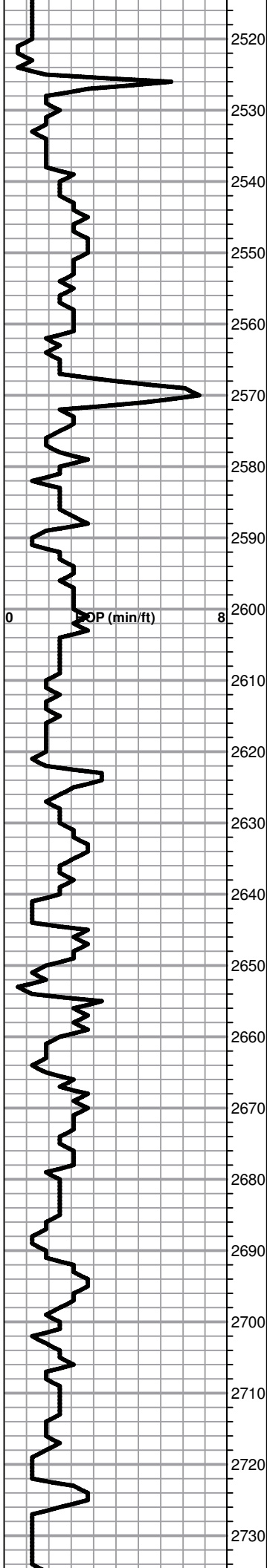
Congl	Dolsec	shale, grn	shale, red
Chtcongl	Lmst fw<7	shale, gry	Ss
Dolprim	Lmst fw>7	Carbon Sh	

ACCESSORIES

MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	F Fossils < 20%	~ Chert	C Chalky
∩ Glauconite	○ Oolite	▬ carb shale	L Lithogr
P Pyrite	⊕ Oomoldic		
△ Chert White	⊕ Fossilinid		
Mc Mica			
∕ Euhed rhombs of dol or i			

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DOVER LM SPL 2525 (-660) ELOG 2522 (-657)

SS - light gray, micaceous, glauconite specks, fine grained, well sorted, well rounded, friable, no stain, no shows

Sh - light-medium gray, soft, extremely sticky

Sh - medium gray, soft, blocky, some forming sticky clumps

STOTLER/TARKIO LM SPL 2567 (-702) ELOG 2564 (-699)

Lm - cream, slightly fossiliferous, fnxn, hard, brittle

Sh - light gray, soft, sticky

Lm - tan, fnxn, dense, hard, brittle, white sticky chalk in part

Sh - light-medium gray, soft, blocky, silty, gritty

Sh - light-medium gray, soft, blocky, forming sticky clumps, pyrite clusters

Sh - light gray, soft, blocky, pyrite

Lm - cream, fnxn, hard, brittle, slightly chalky

Lm - tan-medium brown, fnxn, hard, brittle

Lm - tan, fnxn, dense, hard

Lm - light gray-brown, fnxn, slightly fossiliferous, dense, hard, brittle

Lm - tan-cream, fnxn, hard, brittle

Lm - tan-light brown, fnxn, dense, hard

Sh - light-medium gray, firm, blocky, pyrite specks

Lm - tan-light gray, fnxn, brittle

Lm - light gray, slightly fossiliferous, fnxn, brittle

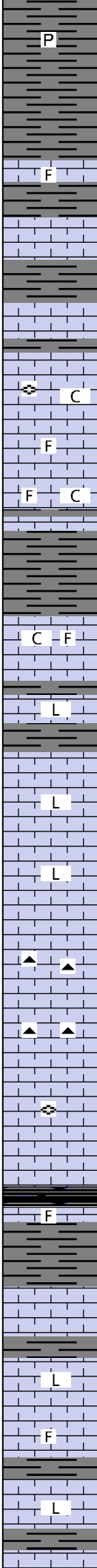
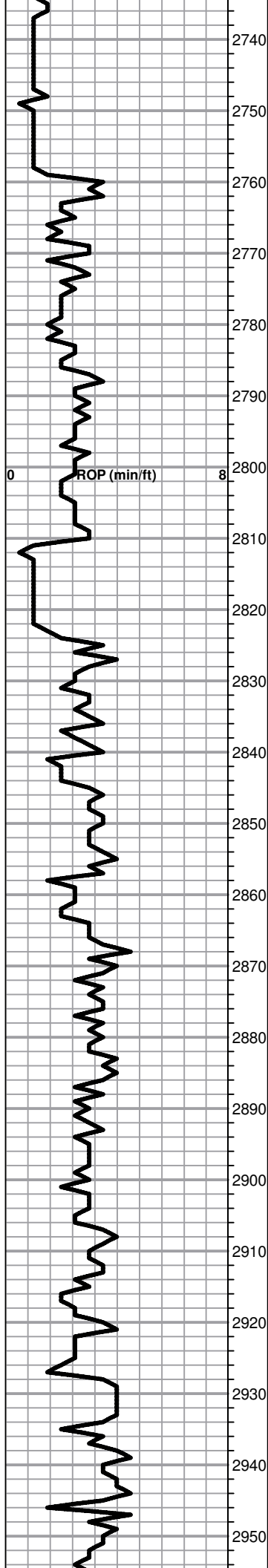
Sh - light gray, soft, sticky

Sh - medium gray, soft to firm, blocky, black micaceous specks

Sh - medium gray, soft, blocky

Lm - cream-light brown, fnxn, black fossil clasts, hard, brittle

MUD WT 8.6
VIS 59
LCM 2#



Sh - medium gray, soft, blocky, silty, pyrite

Lm - cream-light gray, vf-fnxln, slightly fossiliferous, brittle

Sh - light-medium gray, firm, blocky

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

Lm - cream, fnxn, brittle, chalky in part, fusulinids

Lm - cream-tan, fnxn, hard, brittle, slightly fossiliferous

Lm - tan, slightly fossiliferous, slightly chalky, brittle

Sh - light-medium gray, soft, blocky

TOPEKA SPL 2823 (-958) ELOG 2820 (-955)

Lm - cream-tan, slightly fossiliferous, slightly chalky, hard, brittle

Lm - tan-light gray, vfxln to lithographic in some, dense, hard, brittle

Lm - tan-cream, fnxn to lithographic, dense, very hard

Lm - tan, lithographic, dense, very hard

Lm - cream-tan, vf-fnxln, mottled, dense, hard, black chert

Lm - cream-light brown, vf-fnxln, dense, brittle, bedded chalk in part, black chert

Lm - light brown-gray, fnxn, brittle, hard, fusulinids

Lm - cream, fnxn, slightly fossiliferous, bedded chalk

Sh - black, carbonaceous, waxy

Lm - tan, vfxln, slightly fossiliferous, hard, brittle

Sh - light-medium gray, soft, blocky

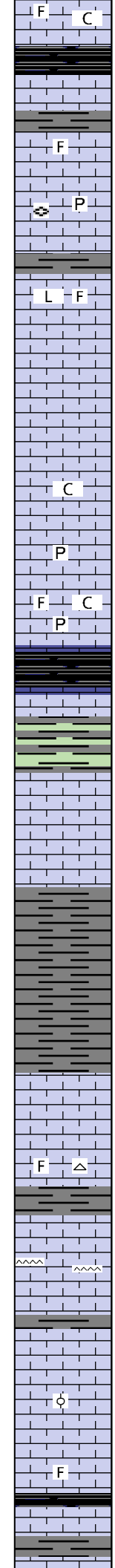
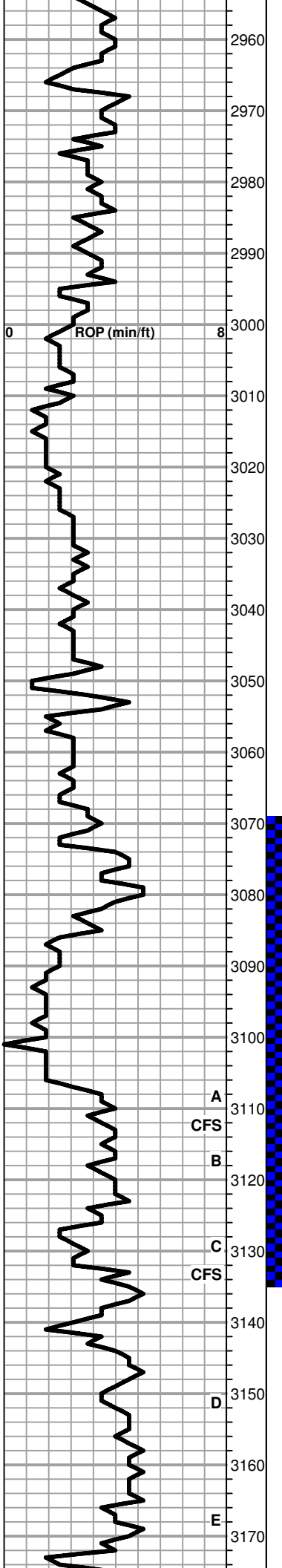
Lm - cream, lithographic, dense, hard, brittle

Lm - cream-tan, fnxn, slightly fossiliferous, hard

Lm - tan, fnxn to lithographic in part, brittle, slight bedded chalk

MUD WT 8.4
VIS 59
LCM 1#

MUD WT 8.7
VIS 52
LCM 1#



Lm - tan, fnxn, slightly fossiliferous, slightly chalky, brittle

Sh - black, carbonaceous, waxy

Lm - cream-tan, medxn, slightly fossiliferous, bedded chalk in part

Lm - tan-light brown, fnxn, bedded chalk in part, fusulinids, pyrite

Lm - light-medium brown, fnxn to lithographic in some, slightly fossiliferous, bedded chalk

Lm - cream-light gray, vfxn, dense, hard, brittle

Lm - cream, fine pinpoint porosity, slight scattered stain, SFO upon crush, no odor

Lm - cream-light brown, fnxn, brittle

Lm - cream-tan, fnxn to granular in part, slightly chalky

Lm - tan, fnxn, brittle, bedded chalk in part, pyrite

Lm - cream-tan, fnxn, fossiliferous, brittle, slightly chalky, pyritized ammonite fossil

HEEBNER SPL 3048 (-1183) ELOG 3046 (-1181)

Sh - black, carbonaceous, waxy, soft, bronze specks

Sh - greenish gray, soft, blocky

TORONTO SPL 3067 (-1202) ELOG 3062 (-1197)

Lm - offwhite, bright and clean, fnxn to granular in some, few chips with scattered pinpoint porosity, light brown stain, NSFO, no odor, good streaming wet cut under UV light.

Lm - cream-offwhite, slightly chalky, scattered gilsonitic stain

DOUGLAS SH SPL 3081 (-1216) ELOG 3079 (-1214)

Sh - light-medium gray / maroon, soft, blocky

Sh - light-medium gray to greenish gray, soft, blocky

LKC SPL 3106 (-1241) ELOG 3104 (-1239)

Lm - cream, mostly fnxn, dense, few chips with scattered pinpoint porosity, SFO upon crush, good odor

Lm - cream, fnxn, hard, brittle, bedded chalk in part, white fossiliferous chert

Sh - medium gray, soft, blocky

Lm - cream, fnxn with scattered pinpoint/vuggy porosity, light brown stain, few specks of free oil, good streaming wet cut, faint odor, cherty

Sh - light gray, soft, blocky

Lm - cream-tan, slightly oolitic, scattered fine pinpoint porosity, scattered light brown stain, specks of free oil upon crush, limited total porosity

Lm - cream, slightly fossiliferous, fnxn, dense, hard, brittle, no shows

Sh - black, carbonaceous, fissile

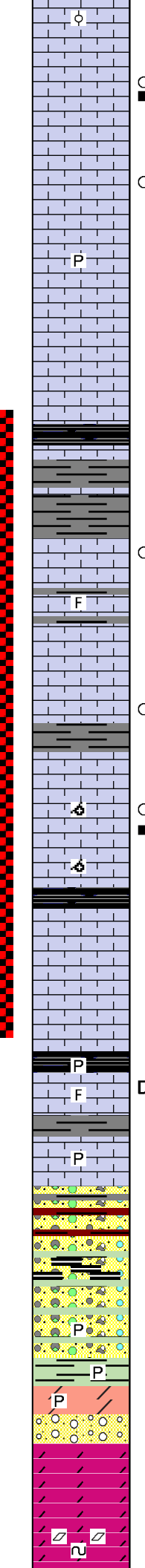
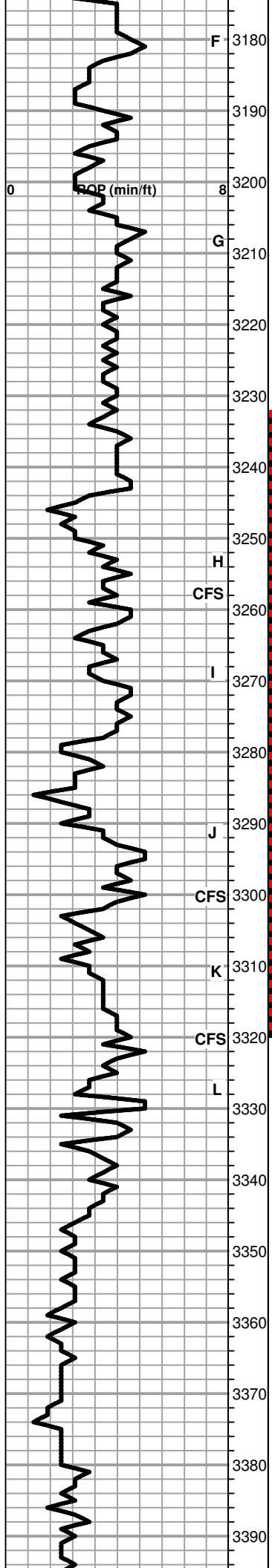
Lm - cream-tan, fnxn, slight scattered pinpoint porosity with staining, NSFO, no odor

MUD WT 8.8
VIS 53
LCM 1#

DST #1 3069 TO 3134 SEE
HEADER FOR TEST
SUMMARY

MUD WT 8.7
VIS 55
LCM .75#

MUD WT 8.9
VIS 51
LCM 1#



Lm - cream, oolitic, poorly developed, well cemented, dense, hard, no shows

Lm - cream-tan, oolites and various fossil fragments, well cemented, fine interxn porosity, light golden brown stain, good streaming wet cut under UV light with dilute HCL, SFO upon crush, limited total porosity

Lm - tan, oolitic, fine interxn porosity, light scattered stain, oil specks upon crush, faint odor, slightly chaly

Lm - cream, vfxln, hard, brittle, bedded chalk in part, pyrite

Lm - cream, fnxln, hard, brittle, bedded chalk

Lm - cream-tan, fnxln, brittle, slightly chalky, few pieces with scattered pinpoint porosity, slight stain, NSFO, no odor

Sh - black, carbonaceous, waxy

Sh - medium gray, soft, blocky

Lm - cream-tan, fossiliferous, fine interxn porosity, scattered light brown stain, SFO upon crush, brittle, pyrite

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

Lm - offwhite-tan, vfxln, dense, very hard

Lm - offwhite, slight scattered pinpoint porosity with dark oil stain, few specks of thick free oil, limited total porosity

Lm - cream-tan, slightly oomoldic with scattered pinpoint porosity, scattered light golden brown stain, specks of free oil upon crush, good streaming wet cut under UV light, limited total porosity

Lm - cream-tan, slightly oomoldic, very fine interxn porosity, dense, very hard, slightly chalky

Sh - black, carbonaceous, waxy, firm

Lm - tan, fossiliferous, fine interxn porosity, slightly vuggy, limited staining, NSFO, no odor

Lm - tan, vf-fnxln, dense, very hard

Sh - black, carbonaceous, soft, fissile, pyrite

Lm - tan, fossiliferous, fine interxn porosity, slight scattered gilsonitic stain

BKC SPL 3334 (-1469) ELOG 3331 (-1466)

Lm - offwhite, fnxln to granular, brittle, no shows, pyrite

Conglomerate - various colored Lm's fnxln to granular, Cherts - pink, white, orange, yellow, Sh - maroon, gray, green, soft, blocky

Conglomerate A/A with clear opaque quartzite pieces with interbedded black carbonaceous shale

Conglomerate A/A pyrite clusters with quartz grain inclusions

Sh - lime green, firm, waxy, pyrite inclusions

Dolo - bright white, vfxln, with pyrite inclusions

ARBUCKLE SPL 3380 (-1515) ELOG 3376 (-1511)

Dolo - tan, fnxln, brittle, no odor, no shows

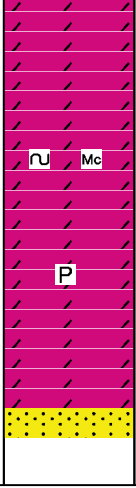
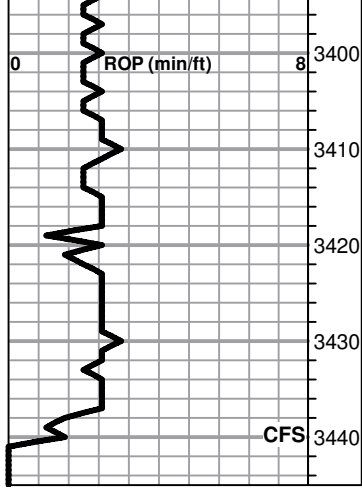
Dolo - bone white, well developed rhombic xtals, medxn, dense, hard, brittle, glauconite specks

LCM 1#

DST #2 3232 TO 3320 SEE HEADER FOR TEST SUMMARY

MUD WT 8.9
VIS 55
LCM .5#

MUD WT 9.1
VIS 50
LCM 1#



① Dolo - buff, fn-medxln, spotted black oil stain, show of free tar like oil upon crush, no odor

Dolo - offwhite, fnxln, quartz grain inclusions, black micaceous specks, glauconite, no shows, no odor

Dolo - pinkish white, fnxln, opaque quartz grain inclusions, well cemented, hard, pyrite

Dolo - cream, sandy, well cemented, clean and barren, no odor, no shows

SS - clear quartz fine grained, angular, well cemented, well sorted, no shows
RTD 3440 (-1575) LTD 3439 (-1574)