

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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

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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Jason Oil Company, LLC
Well Name	HOEME 1
Doc ID	1352968

Tops

Name	Top	Datum
TOPEKA	3502	-704
HEBNER	3730	-932
TORANTO	3750	-952
LKC	3772	-974
BKC	4092	-1294
MARMATONS	4130	-1332
ALTAMONT	4148	-1351
PAWNEE	4230	-1432
MYRIC STAT	4260	-1462
CHROKKEE	4310	-1509
JOHNSON ZN	4350	-1552
MISSISSIPPI	4426	-1628



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 138

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-4-17	31	14	32	Logan	KS		12:00 AM
Location				Oakley 23 5 (old) rd 3w 4000 340 E into			

Lease	Home	Well No.	1	Owner	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.
Contractor	WW #10			Charge To	Jason Oil
Type Job	Surface	T.D.	259	Street	
Hole Size	12 1/4	Depth	259	City	State
Csg.	8 5/8	Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered	180 8/20 3/11 2/1 6/2
Tool		Depth			
Cement Left in Csg.	15'	Shoe Joint			

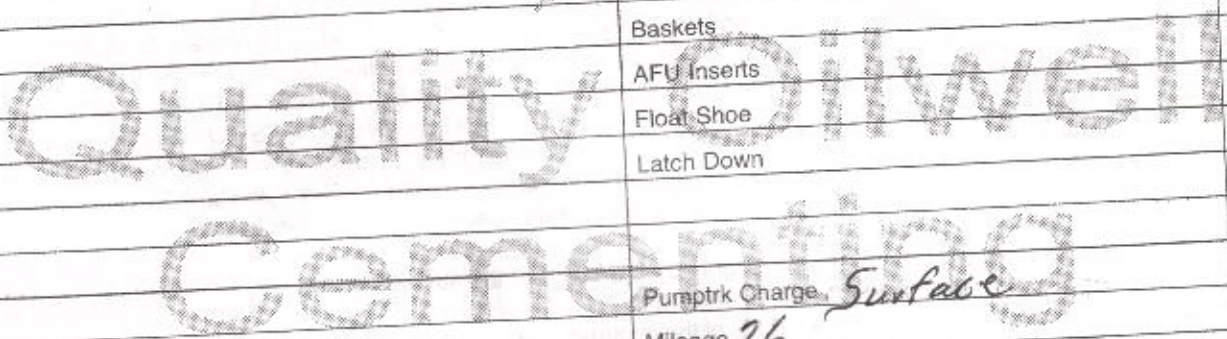
Meas Line	Displace	15 1/2 BCL	Common	145
<b>EQUIPMENT</b>			Poz. Mix	3.5
Pumptrk	20 No.	Cement Helper	Gel.	3
Bulktrk	No.	Driver	Calcium	7
Bulktrk	15 No.	Driver	Hulls	
		Driver	Salt	

<b>JOB SERVICES &amp; REMARKS</b>		Flowseal
Remarks:		Kol-Seal
Rat Hole		Mud CLR 48
Mouse Hole		CFL-117 or CD110 CAF 38
Centralizers		Sand
Baskets		Handling
D/V or Port Collar	8 5/8 on bottom. Est. Circulation.	Mileage
	Mix 180 skt Displace.	
	Cement Circulated!	

<b>FLOAT EQUIPMENT</b>	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	26
Tax	
Discount	
Total Charge	

X Signature *Paul W. [unclear]*





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

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

No. 144

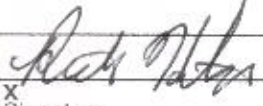
Date	4-9-17	Sec.	31	Twp.	14	Range	32	County	Logan	State	KS	On Location		Finish	10:00 AM
Location <i>Daxley 23.5 Gold Rd 3 1/2 W 1/2 N E into</i>															

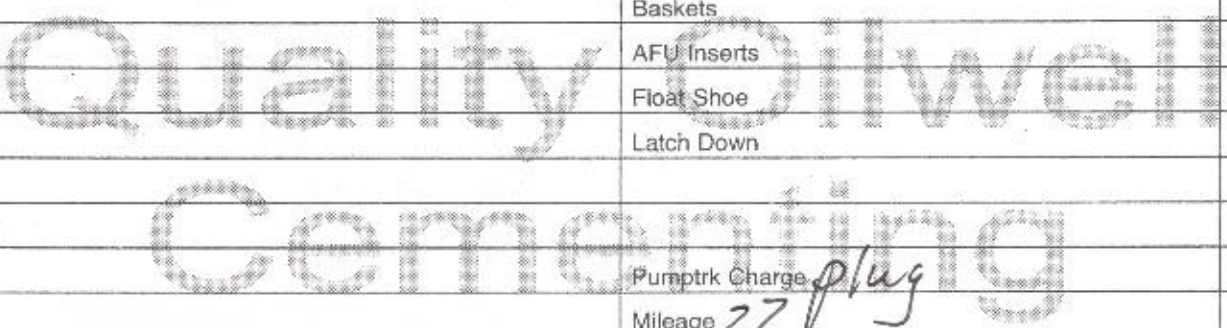
Lease	<i>Hoeme</i>		Well No.		Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	<i>Wyo #10</i>				Charge To	<i>Jason Oil</i>	
Type Job	<i>Rotary Plug</i>						
Hole Size	<i>7 7/8</i>	T.D.	<i>4500</i>				
Csg.		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.		Shoe Joint			Cement Amount Ordered	<i>240<sup>60</sup>/40 41-6ER 1/4 #10</i>	

Meas Line	Displace				Common	<i>144</i>	
<b>EQUIPMENT</b>							
Pumptrk	<i>20</i>	No.	Cementer	<i>Craig</i>	Poz. Mix	<i>96</i>	
			Helper		Gel.	<i>9</i>	
Bulktrk		No.	Driver	<i>Traws</i>	Calcium		
			Driver				
Bulktrk	<i>19</i>	No.	Driver	<i>David</i>			
			Driver				

<b>JOB SERVICES &amp; REMARKS</b>							
Remarks:					Hulls		
Rat Hole	<i>30SK</i>				Salt		
Mouse Hole					Flowseal	<i>60#</i>	
Centralizers					Kol-Seal		
Baskets					Mud CLR 48		
D/V or Port Collar					CFL-117 or CD110 CAF 38		
<i>1st</i>	<i>2245</i>		<i>50SK</i>		Sand		
<i>2nd</i>	<i>1145</i>		<i>100SK</i>		Handling	<i>249</i>	
<i>3rd</i>	<i>30</i>		<i>50SK</i>		Mileage		
<i>4th</i>	<i>40</i>		<i>10SK</i>				

<b>FLOAT EQUIPMENT</b>							
Guide Shoe					Centralizer	<i>8 5/8 D.J. Hole Plug</i>	
Centralizer					Baskets		
Baskets					AFU Inserts		
AFU Inserts					Float Shoe		
Float Shoe					Latch Down		
Latch Down					Pumptrk Charge	<i>plug</i>	
Pumptrk Charge					Mileage	<i>27</i>	
Mileage							

 X Signature	Tax	
	Discount	
	Total Charge	



**OPERATOR**

Company: JASON OIL COMPANY, LLC  
 Address: 3718 - 183RD STREET  
 RUSSELL, KS 67665

Contact Geologist: JIM SCHOENBERGER  
 Contact Phone Nbr: 785-483-4204  
 Well Name: HOEME #1  
 Location: N2 NE SE NW S31 T14S R32W  
 API: 15-109-21495  
 Pool:  
 State: KANSAS

Field: WILDCAT  
 Country: USA

**Scale 1:240 Imperial**

Well Name: HOEME #1  
 Surface Location: N2 NE SE NW S31 T14S R32W  
 Bottom Location:  
 API: 15-109-21495  
 License Number: 33813  
 Spud Date: 4/3/2017 Time: 8:00 PM  
 Region: LOGAN COUNTY  
 Drilling Completed: 4/8/2017 Time: 3:43 PM  
 Surface Coordinates: 1630 FNL & 2970 FEL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2795.00ft  
 K.B. Elevation: 5.00ft  
 Logged Interval: 3300.00ft To: 4500.00ft  
 Total Depth: 4500.00ft  
 Formation: LANSING-KANSAS CITY  
 Drilling Fluid Type: CHEMICAL / FRESH WATER GEL

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -100.921010  
 Latitude: 38.795834  
 N/S Co-ord: 1630 FNL  
 E/W Co-ord: 2970 FEL

**LOGGED BY**

Company: FOSSIL FUEL GEOLOGICAL SERVICES, LLC  
 Address: 1626 MOUNT PLEASANT ROAD  
 HAYS, KANSAS 67601

Phone Nbr: 785-650-4540  
 Logged By: Geologist Name: STEVE REED

**CONTRACTOR**

Contractor: WW DRILLING, INC  
 Rig #: 10  
 Rig Type: MUD ROTARY  
 Spud Date: 4/3/2017 Time: 8:00 PM  
 TD Date: 4/8/2017 Time: 3:43 PM  
 Rig Release: 4/10/2017 Time: 12:00 PM

**ELEVATIONS**

K.B. Elevation: 5.00ft Ground Elevation: 2795.00ft  
 K.B. to Ground: 5.00ft

**NOTES**

BASED ON LACK OF SIGNIFICANT SHOWS AND WELL LOG ANALYSIS THE DECISION WAS MADE TO PLUG AND ABANDON THE HOEME #1.

GEOLOGICAL SUPERVISION BY: STEVE REED



## FORMATION TOPS SUMMARY

		BLACK TEA OIL, LLC				LANDMARK RESOURCES				LANDMARK RESOURCES							
		HOEME #2				OTTLEY #1-31				FAIRLEIGH #1-6							
		SE SW SW 530 145 32W				NW SE SE 511 145 32W				NE NE SW NW 56 155 32W							
		Hoeme #1		2795		2796		2828		2773							
		LOG TOPS		SAMPLE TOPS		LOGS		LOG		SMPL.		LOGS		LOG		SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	
ANHYDRITE TOP	2226	574	2230	570	2217	581	-	7	2247	581	-	7	2198	575	-	5	
BASE	2246	554	2252	548	2238	560	0	12	2268	560	6	12	2220	553	1	5	
TOPEKA	3517	717	3522	722	3502	704	13	18	3530	702	15	20	3489	716	1	6	
HEBNER	3740	940	3742	942	3730	932	8	10	3756	928	12	14	3733	940	0	2	
TORONTO	3768	968	3762	962	3750	952	15	10	3776	948	20	14					
LKC	3787	987	3780	980	3772	974	13	6	3798	970	17	10	3755	982	5	2	
RKC	4106	1306	4102	1302	4092	1294	12	8	4116	1288	18	14					
MARMATON	4144	1344	4130	1339	4130	1332	12	7	4155	1327	17	12					
ALTAMONT	4162	1362	4157	1357	4149	1351	11	6	4175	1347	15	10					
PAWNEE	4244	1444	4240	1440	4230	1432	12	8	4256	1428	16	12	4213	1440	4	0	
HEBI SEPTI	4296	1496	4290	1490	4283	1483	15	7	4308	1480	18	10					
CHEROKEE	4326	1526	4315	1515	4307	1509	17	6	4336	1508	18	7	4293	1520	6	5	
MISSISSIPPIAN	4468	1668	4465	1665	4476	1628	40	37	4457	1629	39	38	4401	1628	40	37	
TOTAL DEPTH	4501	1701	4500	1700	4522	1784	88	84	4500	1681	70	19	4470	1697	4	3	

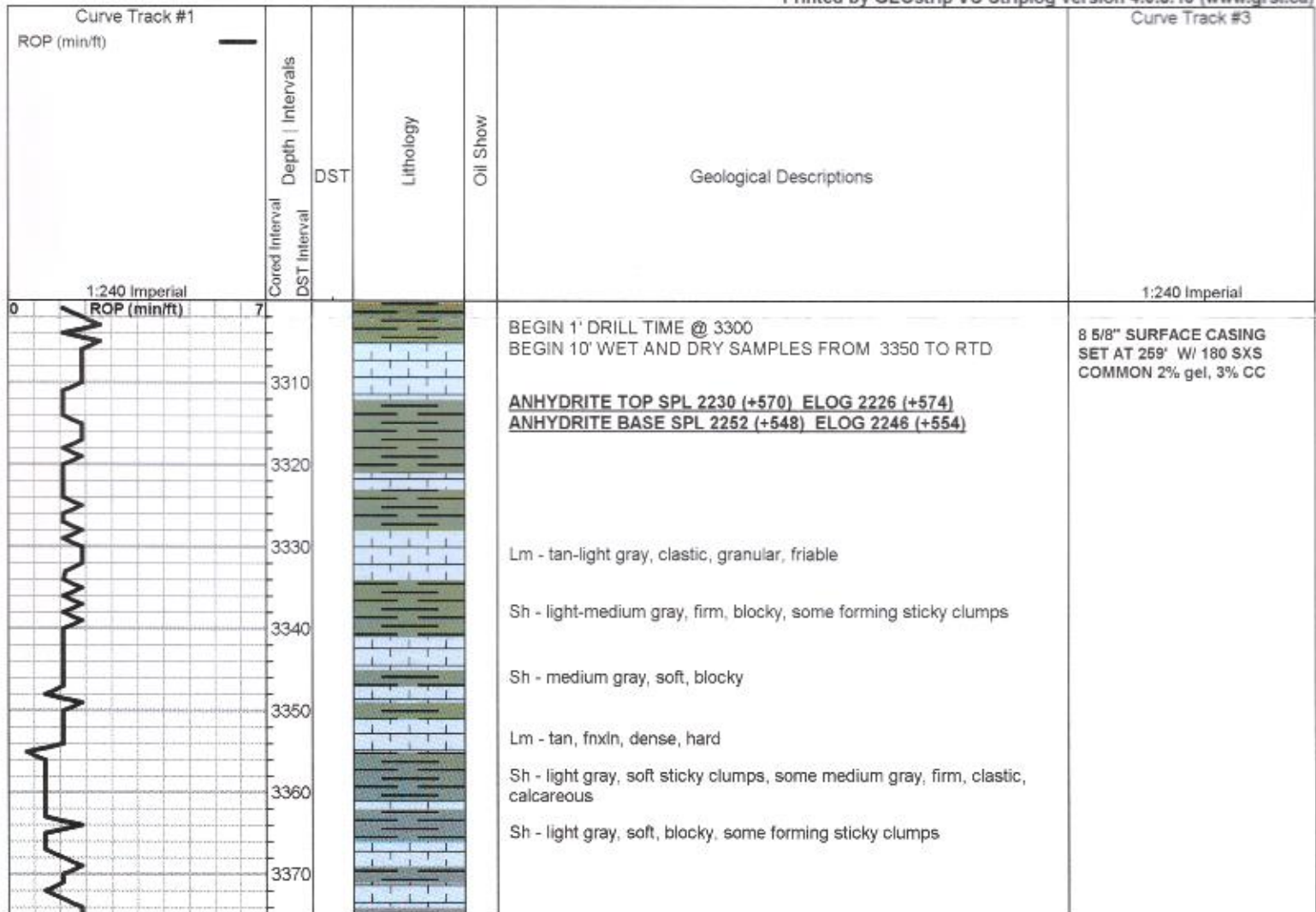
### ROCK TYPES

Lmst fw7>	shale, gry	shale, red
shale, grn	Carbon Sh	Ss

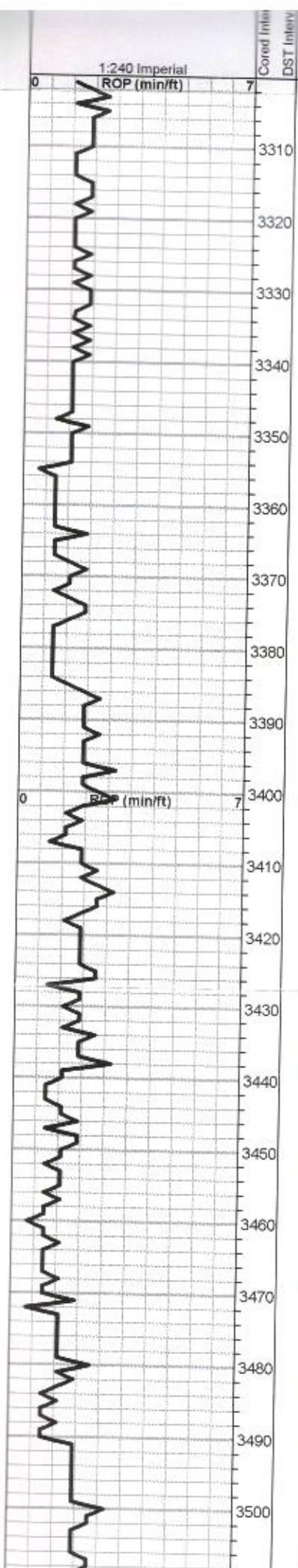
### ACCESSORIES

<b>MINERAL</b> P Pyrite	<b>FOSSIL</b> F Fossils < 20% O Oolite Fussulinid	<b>STRINGER</b> Chert	<b>TEXTURE</b> C Chalky L Lithog
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Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)







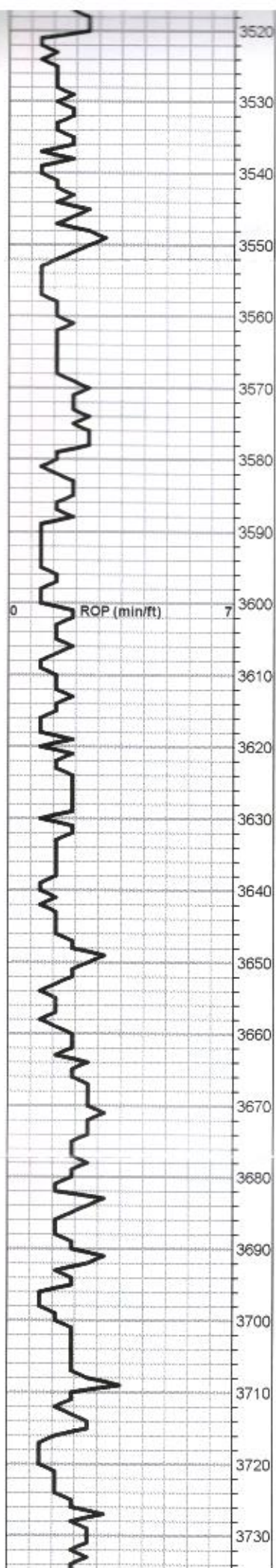
BEGIN 1' DRILL TIME @ 3300  
 BEGIN 10' WET AND DRY SAMPLES FROM 3350 TO RTD

**ANHYDRITE TOP SPL 2230 (+570) ELOG 2226 (+574)**  
**ANHYDRITE BASE SPL 2252 (+548) ELOG 2246 (+554)**

1:240 Imperial  
 8 5/8" SURFACE CASING  
 SET AT 259' W/ 180 SXS  
 COMMON 2% gel, 3% CC

- Lm - tan-light gray, clastic, granular, friable
- Sh - light-medium gray, firm, blocky, some forming sticky clumps
- Sh - medium gray, soft, blocky
- Lm - tan, fnxn, dense, hard
- Sh - light gray, soft sticky clumps, some medium gray, firm, clastic, calcareous
- Sh - light gray, soft, blocky, some forming sticky clumps
- Sh - medium to dark gray, firm, gritty, silty
- Lm - tan, clastic with fine interxn porosity, some medium gray fnxn
- Lm - tan, fossiliferous with fine interparticle porosity
- Lm - tan-light brown, fossiliferous, interxn porosity, dense, slight bedded chalk
- Sh - light gray, soft, calcareous, some forming sticky clumps
- Lm - medium brown, vfxn, dense, sharp, brittle
- Lm - tan with dark clastic particles, medxn to granular, bedded chalk in part
- Sh - medium gray, firm, gritty
- Lm - cream, granular, easily crushed, bedded chalk
- Lm - tan, fnxn, slightly fossiliferous, dense, brittle
- Sh - medium gray, firm, blocky
- Lm - medium brown, fnxn, dense, hard
- Sh - medium gray, firm, pyrite specks
- Lm - tan, medium brown, fine interxn porosity, clastic, well cemented, dense

MUD WT. 8.7  
 VIS 68  
 LCM 3#



Lm - cream, fnxn, dense, brittle, fusilinids

Lm - cream-tan, granular, well cemented, slightly fossiliferous, slightly chalky

Lm - tan, fn-medxn, hard, brittle, sharp

Lm - off white, granular, poorly cemented, friable, white sticky chalk clumps

Sh - dark green, soft, blocky

Sh - gray/green, soft, blocky

Lm - light brown-gray, fnxn, slightly fossiliferous, bedded chalk

Lm - tan, medxn, dense, bedded chalk in part

Lm - cream-tan, medxn, chalky in part, cherty

Sh - light gray, soft, blocky, gritty

Lm - tan, fnxn, dense, hard, brittle

Lm - tan, fn-medxn, slightly fossiliferous, bone white chert

Sh - black, carbonaceous, firm, waxy, bronze flecks

Lm - cream-tan, fnxn, brittle, cherty

Sh - medium gray, soft, blocky

Lm - cream, granular, clastic, easily crushed

Sh - light gray, soft, gritty

Lm - tan, fnxn, dense, hard, pyrite clusters

Sh - black, carbonaceous, waxy

Lm - tan, vfxn, slightly lithographic, hard, clean and barren

Sh - medium gray, soft, blocky

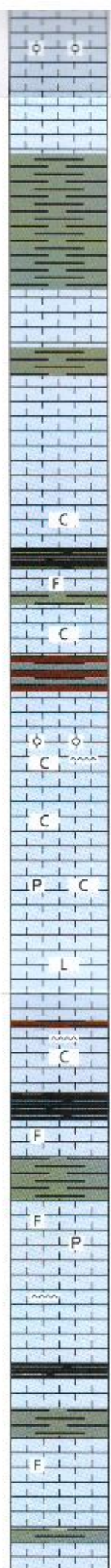
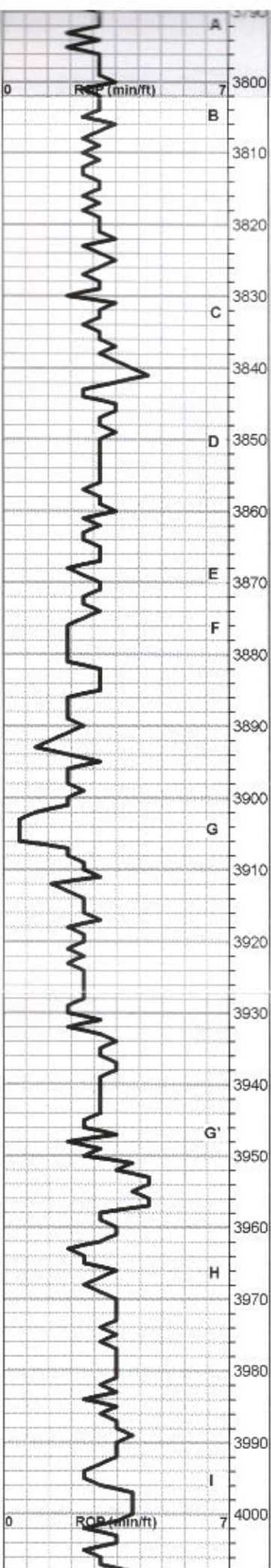
Lm - cream, fnxn, slightly fossiliferous, gray chert pieces

Lm - cream-tan, fnxn, slightly chalky

Lm - cream-light gray, slightly fossiliferous, fine interxn porosity, bedded chalk

Sh - dark gray, firm, blocky





Lm - cream, vfxln, dense, hard

○ Lm - cream, scattered oolites, poorly developed, scattered interxn porosity with light staining and rare vugs, faint odor, NSFO

Lm - cream, bright, vfxln, dense, hard, clean and barren, no devo

Sh - light-medium gray, soft, some sticky

Lm - tan-light brown, very hard, fn interxn porosity with some secondary recrystallization, clean and barren, poor development

Lm - cream, vfxln, brittle, clean and barren

○ Lm - cream, fnxln, scattered pinpoint porosity, scattered stain, no odor, NSFO

Lm - cream, fnxln, brittle, bedded chalk in part, poor development

Sh - dark gray, some black carbonaceous

Lm - tan, fnxln, slightly fossiliferous, hard, no shows

Lm - tan, vfxln, clean and barren, chalky

Sh - maroon-gray, soft, blocky

Lm - cream, fn-medxln, brittle, slightly oolitic, poor development, no shows, chalky, cherty

Lm - cream, subgranular, friable, bedded chalk

Lm - cream, fnxln, hard, bedded chalk in part, pyrite clusters

Lm - A/A, some lithographic

Lm - cream-tan, fnxln, bedded chalk, cherty

**MUNCIE CREEK SPL 3939 (-1139) ELOG 3942(-1142)**

Sh - black, carbonaceous, firm, waxy, some sticky

Lm - medium gray-brown, fnxln, dense, hard, slightly fossiliferous, slight chalk, slight chert

Sh - dark gray, soft, sticky

Lm - tan, fn-medxln, slightly fossiliferous, limited developement, no shows, pyrite clusters

Lm - cream, fnxln, dense, hard, white chert

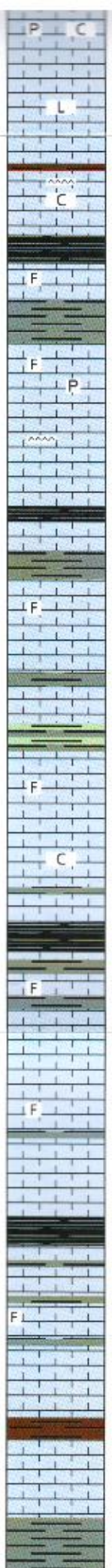
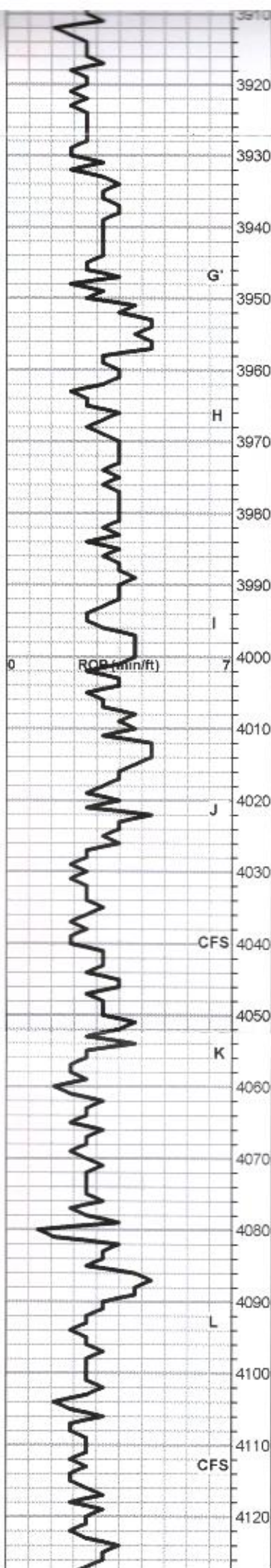
Sh - black, carbonaceous, fissile

Sh - dark gray, firm, blocky

○ Lm - off white, slightly fossiliferous, fn interxn porosity with scattered pinpoint porosity, limited staining, slightly vuggy, faint odor, SFO upon crush, tight overall

MUD WT. 8.9  
VIS 53  
LCM 3#





Lm - cream, fnxn, hard, bedded chalk in part, pyrite clusters

Lm - A/A, some lithographic

Lm - cream-tan, fnxn, bedded chalk, cherty

**MUNCIE CREEK SPL 3939 (-1139) ELOG 3942(-1142)**

Sh - black, carbonaceous, firm, waxy, some sticky

Lm - medium gray-brown, fnxn, dense, hard, slightly fossiliferous, slight chert

Sh - dark gray, soft, sticky

Lm - tan, fn-medxn, slightly fossiliferous, limited development, no shows, pyrite clusters

Lm - cream, fnxn, dense, hard, white chert

Sh - black, carbonaceous, fissile

Sh - dark gray, firm, blocky

○ Lm - off white, slightly fossiliferous, fn interxn porosity with scattered pinpoint porosity, limited staining, slightly vuggy, faint odor, SFO upon crush, tight overall

Sh - dark green/gray, firm, blocky

○ Lm - tan-cream, slightly fossiliferous, fn interxn porosity, slightly vuggy, few specks of tar like oil, faint odor

Lm - tan, fnxn, chalky

**STARK SPL 4034(-1254) ELOG 4037 (-1237)**

Sh - black, carbonaceous, waxy, firm

○ Lm - cream, slightly fossiliferous, fn interxn porosity, light scattered stain, no odor, NSFO

○ Lm - off white, fn pinpoint porosity, scattered dark stain, fair odor, NSFO

Lm - off white, slightly fossiliferous, pinpoint porosity, dark stain, faint odor, NSFO

**HUSHPUCKNEY SPL 4072 (-1272) ELOG 4077 (-1277)**

Sh - black, carbonaceous

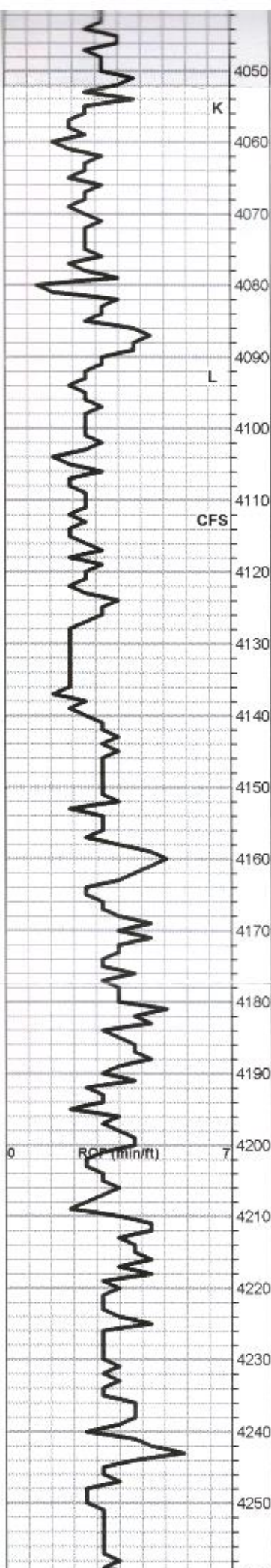
○ Lm - off white, fine interxn porosity, slightly fossiliferous, interxtal staining, few specks of free oil upon crush, faint odor, limited development.

Lm - tan, fnxn, dense, brittle, no shows

**BKC SPL 4102 (-1302) ELOG 4106 (-1306)**

Sh - reddish brown, soft, blocky

Lm - medium gray, clastic, brittle



Lm - cream, slightly fossiliferous, fn interxn porosity, light scattered stain, no odor, NSFO

Lm - off white, fn pinpoint porosity, scattered dark stain, fair odor, NSFO

Lm - off white, slightly fossiliferous, pinpoint porosity, dark stain, faint odor, NSFO

**HUSHPUCKNEY SPL 4072 (-1272) ELOG 4077 (-1277)**

Sh - black, carbonaceous

Lm - off white, fine interxn porosity, slightly fossiliferous, interxtal staining, few specks of free oil upon crush, faint odor, limited development.

Lm - tan, fnxn, dense, brittle, no shows

**BKC SPL 4102 (-1302) ELOG 4106 (-1306)**

Sh - reddish brown, soft, blocky

Lm - medium gray, clastic, brittle

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

**MARMATON SPL 4139 (-1339) ELOG 4144 (-1344)**

Lm - cream, granular, firm, pyrite clusters, orange chert

Sh - black carbonaceous, waxy, soft

Sh - dark brown, soft, gritty, sticky

**ALTAMONT SPL 4157 (-1357) ELOG 4162 (-1362)**

Lm - cream, fn-medxn, hard, brittle, clean and barren

Lm - tan-light brown, brittle

Lm - tan, vfxn, dense, brittle,

Sh - black, carbonaceous, firm

Lm - tan, scattered pinpoint porosity, slight stain, faint odor, few specks of oil, limited total porosity

Sh - medium gray-brown, soft, blocky

Lm - cream, vfxn, dense, brittle, few chips with oil specks, tight

Lm - cream, mostly fnxn, some fossiliferous with interparticle porosity, light brown stain, specks FO upon crush, faint odor, gray chert

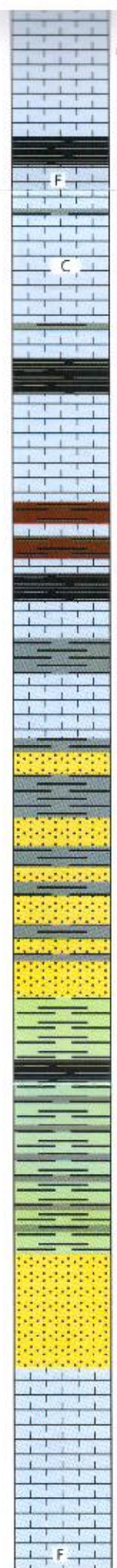
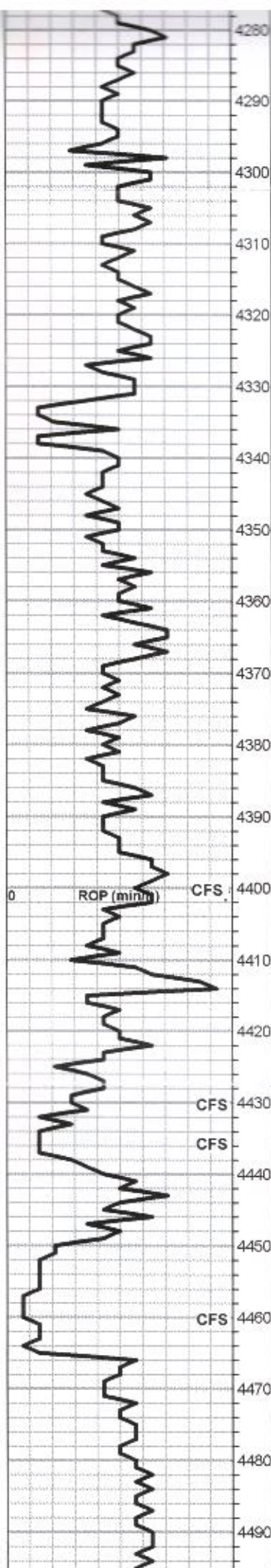
**PAWNEE SPL 4240 (-1440) ELOG 4244 (-1444)**

Lm - cream, vfxn, dense, some oolitic, well cemented, slight stain, no odor, chalky

Lm - cream-tan, colitic, interoolitic stain, very tight, NSFO

MUD WT. 9.2  
VIS 51  
LCM 2#





Lm - light gray-light brown, fn-medxn, some chips with slight pinpoint porosity, light staining, no odor, NSFO

MUD WT. 9.2  
VIS 56  
LCM 4#

**FORT SCOTT SPL 4290 (-1490) ELOG 4298 (-1498)**

Lm - light brown, fnxn, slightly fossiliferous, no shows

Lm - tan, fnxn, slightly chalky, clean and barren

Lm - tan-light brown, fnxn, slightly chalky  
**CHEROKEE SH SPL 4315 (-1515) ELOG 4326 (-1526)**

Sh - black, carbonaceous, firm

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

Sh - maroon, soft, blocky, some gritty

Sh - black, carbonaceous, waxy, firm

Lm - off white, fn pinpoint porosity, calcite inclusions, slight staining, no odor, NSFO

Lm - medium brown, vfxn, dense, hard, few chips with pinpoint porosity, slight scattered stain, no odor

SS - brown, well rounded, well cemented, well sorted clusters, medium grained, very hard, dark stain, no odor, NSFO

Sh - dark gray, firm, gritty

SS - white, well rounded, well sorted, well cemented, medium grained, glauconite specks, no shows

SS - snow white, A/A, very clean

Sh - dark green, gritty, firm

Sh - black, carbonaceous, gritty, firm

Sh - dark green, firm, waxy, silty

Sh - dark green-gray, soft, sticky

SS - light green, sucrosic, well sorted, well rounded, loosely cemented, fine grained, no shows

SS - opaque, fine grained, well sorted, well rounded, loosely cemented, no shows

**MISSISSIPPIAN SPL 4465 (-1665) ELOG 4468 (-1668)**

Lm - cream-tan, fnxn, hard, brittle, no shows

Lm - cream, clean and bright, fn-medxn, hard, no shows

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

MUD WT. 9.4  
VIS 57  
LCM 3#

SHORT TRIP 45 STANDS

STRAP 0.11 FT LONG TO



