



Scale 1:240 Imperial

Well Name: BOWMAN TRUST #1  
Surface Location: N2 SW NW SW Sec. 4 - 9S - 36W  
Bottom Location:  
API: 15-193-21028  
License Number: 34916  
Spud Date: 8/29/2018 Time: 8:45 AM  
Region: THOMAS COUNTY  
Drilling Completed: 9/7/2018 Time: 1:25 PM  
Surface Coordinates: 1750' FSL & 330' FWL  
Bottom Hole Coordinates:  
Ground Elevation: 3425.00ft  
K.B. Elevation: 3433.00ft  
Logged Interval: 3800.00ft To: 4900.00ft  
Total Depth: 4900.00ft  
Formation: LANSING - KANSAS CITY  
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

#### OPERATOR

Company: FOURWIND OIL CORP.  
Address: P.O. BOX 1063  
HAYS, KS 67601

Contact Geologist: DAN WINDHOLZ  
Contact Phone Nbr: (785) 259-8403  
Well Name: BOWMAN TRUST #1  
Location: N2 SW NW SW Sec. 4 - 9S - 36W  
API: 15-193-21028  
Pool:  
State: KANSAS

Field: WILDCAT  
Country: USA

#### SURFACE CO-ORDINATES

Well Type: Vertical  
Longitude: -101.3525988  
Latitude: 39.2993792  
N/S Co-ord: 1750' FSL  
E/W Co-ord: 330' FWL

#### LOGGED BY



Company: BIG CREEK CONSULTING, INC.

Company: BIG CREEK CONSULTING, INC.  
 Address: 1909 MAPLE ELLIS, KS 67637

Phone Nbr: (785) 259-3737  
 Logged By: GEOLOGIST

Name: JEFF LAWLER

**CONTRACTOR**

Contractor: DISCOVERY DRILLING  
 Rig #: 1  
 Rig Type: MUD ROTARY  
 Spud Date: 8/29/2018  
 TD Date: 9/7/2018  
 Rig Release: 9/8/2018  
 Time: 8:45 AM  
 Time: 1:25 PM  
 Time: 9:00 AM

**ELEVATIONS**

K.B. Elevation: 3433.00ft  
 K.B. to Ground: 8.00ft  
 Ground Elevation: 3425.00ft


**NOTES**

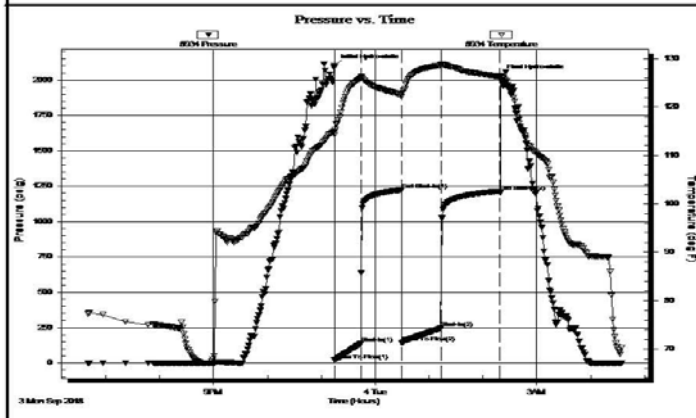
DUE TO LACK OF ECONOMIC RECOVERY ON THREE DRILL STEM TESTS THE DECISION WAS MADE TO PLUG & ABANDON THE BOWMAN TRUST #1.

**WELL COMPARISON SHEET**

FORMATION	BOWMAN TRUST #1				P&A 3-11				●				P&A GAS WELL 7-03				EOR			
	KB 3433		GL 3425		KB 3396		KB 3407		KB 3427		KB 3417		KB 3417		KB 3417		KB 3417			
	LOG TOPS		SAMPLE TOPS		LOG		LOG		LOG		LOG		LOG		LOG		LOG			
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM		
ANHYDRITE TOP	2896	537	2894	539					2880	527	+ 10	+ 12	2895	532	+ 5	+ 7	2884	533	+ 4	+ 6
BASE	2923	510	2925	508	2896	500	+ 10	+ 8	2912	495	+ 15	+ 13	2926	501	+ 9	+ 7	2914	503	+ 7	+ 5
TOPEKA	3969	-536	3971	-538	3927	-531	- 5	- 7	3947	-540	+ 4	+ 2					3948	-531	- 5	- 7
HEEBNER SHALE	4161	-728	4164	-731	4118	-722	- 6	- 9	4139	-732	+ 4	+ 1	4162	-735	+ 7	+ 4	4141	-724	- 4	- 7
TORONTO	4189	-756	4194	-761					4170	-763	+ 7	+ 2								
LKC	4207	-774	4208	-775	4162	-766	- 8	- 9	4186	-779	+ 5	+ 4	4210	-783	+ 9	+ 8	4185	-768	- 6	- 7
BKC	4491	-1058	4500	-1067	4442	-1046	- 12	- 21	4461	-1054	- 4	- 13	4500	-1073	+ 15	+ 6	4469	-1052	- 6	- 15
MARMATON	4536	-1103	4547	-1114	4492	-1096	- 7	- 18	4510	-1103	+ 0	- 11	4536	-1109	+ 6	- 5	4523	-1106	+ 3	- 8
PAWNEE	4623	-1190	4623	-1190	4565	-1169	- 21	- 21	4586	-1179	- 11	- 11	4620	-1193	+ 3	+ 3	4594	-1177	- 13	- 13
FORT SCOTT	4659	-1226	4658	-1225	4603	-1207	- 19	- 18	4629	-1222	- 4	- 3	4660	-1233	+ 7	+ 8	4630	-1213	- 13	- 12
CHEROKEE SHALE	4669	-1236	4669	-1236	4621	-1225	- 11	- 11	4641	-1234	- 2	- 2	4672	-1245	+ 9	+ 9	4648	-1231	- 5	- 5
MISSISSIPPIAN	4850	-1417	4859	-1426	4812	-1416	- 1	- 10												
TOTAL DEPTH	4900	-1467	4900	-1467	4870	-1474	+ 7	+ 7	4700	-1293	- 174	- 174	4803	-1376	- 91	- 91	4745	-1328	- 139	- 139

**DST #1 LKC A 4198' - 4226'**

	<b>DRILL STEM TEST REPORT</b>	
	FourWinds Oil Corporation PO BOX 1063 Hays KS 67601 ATTN: Jeff Lawler	<b>4-9s-36w Thomas KS</b> <b>Bowman Trust #1</b> Job Ticket: 64593 Test Start: 2018.09.03 @ 18:40:00 <b>DST#: 1</b>
<b>GENERAL INFORMATION:</b>		
Formation: <b>LKC 'A'</b> Deviated: No Whipstock Time Tool Opened: 23:14:45 Time Test Ended: 04:35:15	ft (KB) Test Type: Conventional Bottom Hole (Initial) Tester: Spencer J. Staab Unit No: 84	Reference Elevations: 3433.00 ft (KB) 3425.00 ft (CF) KB to GR/CF: 8.00 ft
Interval: <b>4198.00 ft (KB) To 4226.00 ft (KB) (TVD)</b> Total Depth: 4226.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Poor		
<b>Serial #: 8934</b> Press@RunDepth: 245.21 psig @ 4199.00 ft (KB) Start Date: 2018.09.03 Start Time: 18:40:15	<b>Outside</b> End Date: 2018.09.04 End Time: 04:35:15	Capacity: 8000.00 psig Last Calib.: 2018.09.04 Time On Btm: 2018.09.03 @ 23:14:30 Time Off Btm: 2018.09.04 @ 02:20:00
<b>TEST COMMENT:</b> 30-IF-Fair; Built to 9&1/2" 45-ISI-No Return 30-FF-Fair to Strong in 27mins; Built to 20" 60-FSI-No Return		



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.78	114.86	Initial Hydro-static
1	18.84	114.33	Open To Flow (1)
30	137.40	125.95	Shut-In(1)
75	1222.95	122.58	End Shut-In(1)
76	142.67	122.16	Open To Flow (2)
119	245.21	128.65	Shut-In(2)
185	1215.00	126.21	End Shut-In(2)
186	2029.64	126.35	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
340.00	Water 100%W	2.70
150.00	MCV 15%M 85%W	2.13

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 64593

Printed: 2018.09.04 @ 06:52:22

### DST #2 LKC D 4255' - 4282'

**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

FourWinds Oil Corporation **4-9s-36w Thomas KS**

PO BOX 1063 **Bowman Trust #1**  
Hays KS 67601 Job Ticket: 64594 **DST#: 2**

ATTN: Jeff Lawler Test Start: 2018.09.04 @ 15:40:00

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**GENERAL INFORMATION:**

Formation: **LKC 'D'**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:32:45  
Time Test Ended: 22:48:45  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Spencer J. Staab  
Unit No: 84

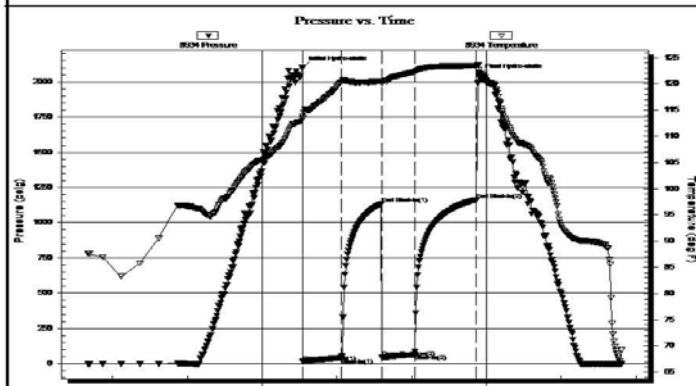
Interval: **4255.00 ft (KB) To 4282.00 ft (KB) (TVD)**  
Total Depth: 4282.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Reference Elevations: 3433.00 ft (KB)  
3425.00 ft (CF)  
KB to GR/CF: 8.00 ft

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**Serial #: 8934**

Press@RunDepth: 63.77 psig @ ft (KB) Capacity: 8000.00 psig  
Start Date: 2018.09.04 End Date: 2018.09.04 Last Calib.: 2018.09.04  
Start Time: 15:40:15 End Time: 22:48:45 Time On Btm: 2018.09.04 @ 18:32:30  
Time Off Btm: 2018.09.04 @ 20:54:00

**TEST COMMENT:** 30-IF-Weak; Built to 4"  
30-ISI-No Return  
30-FF-Weak; Built to 2&1/2"  
45-FSH-No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.72	113.85	Initial Hydro-static
1	14.12	113.54	Open To Flow (1)
32	41.25	120.35	Shut-In(1)
64	1134.91	120.51	End Shut-In(1)
64	43.39	120.06	Open To Flow (2)
90	63.77	122.32	Shut-In(2)
140	1162.62	123.45	End Shut-In(2)
142	2048.72	122.11	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
70.00	SWCM 3%W 97%M	0.51

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 64594

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Printed: 2018.09.05 @ 02:26:08

DST #3 LKC K 4426' - 4460'



DRILL STEM TEST REPORT

FourWinds Oil Corporation

4-9s-36w Thomas KS

PO BOX 1063  
Hays KS 67601

Bowman Trust #1

ATTN: Jeff Lawler

Job Ticket: 64595

DST#: 3

Test Start: 2018.09.05 @ 22:18:00

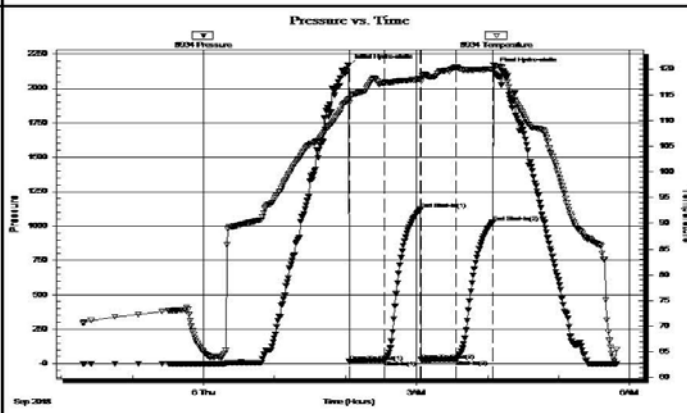
GENERAL INFORMATION:

Formation: **LKC 'K'**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:03:00  
 Time Test Ended: 05:49:00  
 Interval: **4426.00 ft (KB) To 4460.00 ft (KB) (TVD)**  
 Total Depth: 4460.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J. Staab  
 Unit No: 84  
 Reference Elevations: 3433.00 ft (KB)  
 3425.00 ft (CF)  
 KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

Press@RunDepth: 32.04 psig @ 4427.00 ft (KB)  
 Start Date: 2018.09.05 End Date: 2018.09.06  
 Start Time: 22:18:15 End Time: 05:49:00  
 Capacity: 8000.00 psig  
 Last Calib.: 2018.09.06  
 Time On Btm: 2018.09.06 @ 02:02:45  
 Time Off Btm: 2018.09.06 @ 04:04:45

TEST COMMENT: 30-IF-Weak Surface  
 30-ISI-No Return  
 30-FF-Weak Surface  
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Anotation
0	2164.39	114.21	Initial Hydro-static
1	15.48	113.43	Open To Flow (1)
30	24.22	117.29	Shut-In(1)
61	1122.25	117.98	End Shut-In(1)
61	26.53	117.57	Open To Flow (2)
91	32.04	120.38	Shut-In(2)
122	1025.18	119.95	End Shut-In(2)
122	2140.77	120.85	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	OSM	0.11

\* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 64595

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Printed: 2018.09.06 @ 07:16:08

**ROCK TYPES**

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

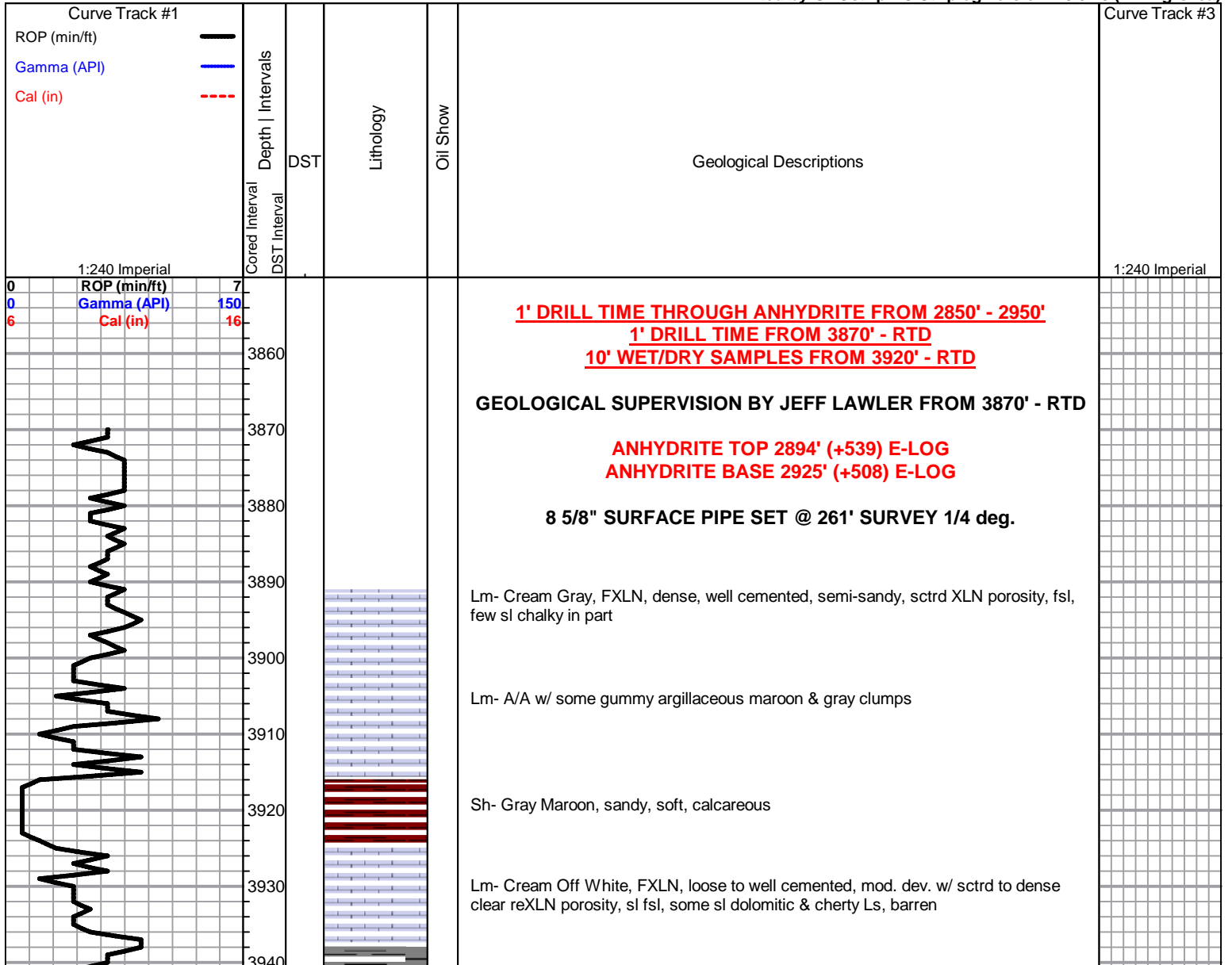
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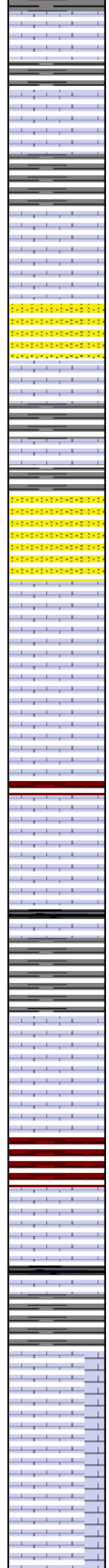
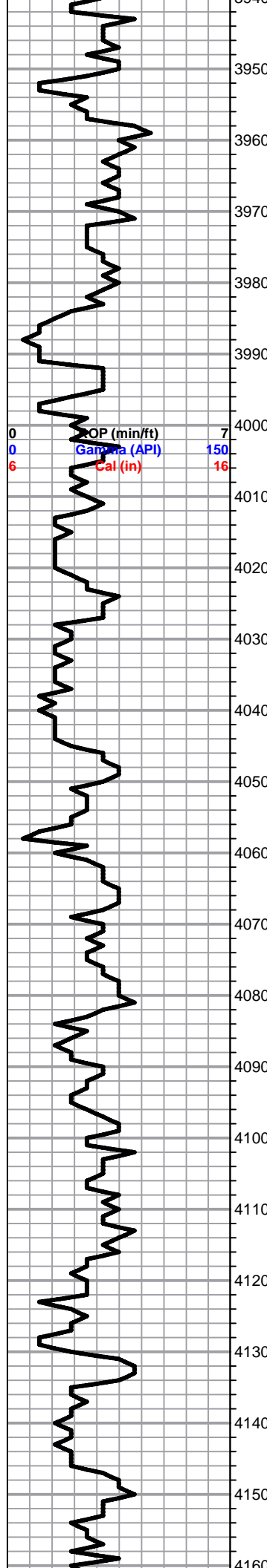
**STRINGER**  
 Sandstone

**OTHER SYMBOLS**

<b>MISC</b>	<b>DST</b>
Daily Report	DST Int
Digital Photo	DST alt
Document	
Folder	
Link	
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

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Lm- A/A w/ Lt gray, dense VF-FXLN, well cemented, sl granular, tight w/ dense micro XLN porosity

Sh- Gray Maroon Lt Green, sandy, silty & calcareous, some soft wash

**TOPEKA 3971' (-538) E-LOG 3969' (-536)** Lm- Lt Gray, VFXLN, dense, well cemented, sl fsl, poorly dev. & mostly tight w/ sctrd micro XLN porosity

Lm- Cream Gray, FXLN, loosely cemented, semi-crumbly, dense XLN porosity, some sl fsl, barren

Ss- Off White Maroon Gray, Med Grn, well sorted & consolidated, well cemented, barren

Lm- Cream, FXLN, dense, well cemented, sl fsl, dense XLN porosity, barren

Ss- Maroon, consolidated & well sorted, well cemented w/ ppt intergran. porosity

Lm- Cream Off White, FXLN, loosely cemented, sandy, mod. dev. w/ fn ppt porosity, some soft white chalk, barren, some mottled & sl fsl, w/ dense XLN porosity & clear reXLN porosity, barren

Sh- Maroon Gray, gritty & earthy, dense & sl waxy

Lm- Tan Lt Gray, VF-FXLN, well cemented, sctrd clear replacement cementation, sctrd micro XLN & reXLN porosity, barren & tight

Sh- Black Maroon, fissile & carbonaceous, gritty & earthy

Sh- Gray Maroon, dense & sl calcareous, gritty & earthy, some sl sandy

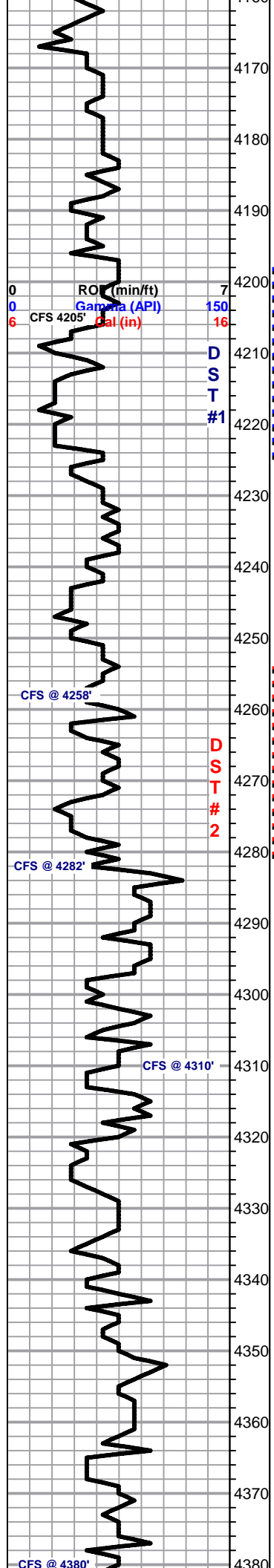
Lm- Drk Gray, VF-FXLN, dense, well cemented, fsl w/ some fragments, heavily mottled, high-energy, sctrd XLN & reXLN porosity, barren

Lm- Cream Off White, FXLN, dense, well cemented, poorly dev., some sl fsl, sctrd XLN porosity, tight

Sh- Black Gray Maroon, fissile & carbonaceous, gritty & earthy

Lm- Cream Off White, FXLN, dense, well cemented, sl fsl & oolitic, massive, sctrd fn ppt inter fsl porosity, barren

Lm- Cream Off White, FXLN, dense, well cemented, sctrd clear replacement cementation, sl fsl sctrd XLN porosity, barren



**HEEBNER 4164' (-731) E-LOG 4161' (-728)** Sh- Black Maroon, fissile & carbaceous, gritty & earthy

**TORONTO 4194' (-761) E-LOG 4189' (-756)** Lm- Cream Gray, FXLN, sl fsl, well cemented, mostly tight w/ sctrd XLN porosity, barren

**LKC 4208' (-775) E-LOG 4207' (-774)** Lm- White, FXLN, sl fsl & oolitic, massive, loosely cemented, dense sctrd fn ppt porosity, BLK THICK STN, TR ODR??, HVY TARRY STN

Lm- Cream Off White, FXLN, fsl, well cemented, poorly dev. w/ sctrd XLN porosity, barren

Lm- White Off White, FXLN, dense, well cemented, sl fsl, mostly tight w/ sctrd-dense XLN porosity, poorly dev. & barren

Sh- Maroon Green Gray, gritty & earthy, dense & semi-waxy

**D** Lm- Tan, FXLN, fsl & oolitic, sctrd fn ppt inter oolite & XLN porosity, well cemented, VARYING DEGREE OF BLK STN, TARRY DO-TR FO, NO ODR

Lm- White, FXLN, fsl, poorly dev. & mostly tight w/ sctrd micro XLN porosity, vry clean & barren

**D** Lm- Cream Off White, FXLN, fusulinids & sl oolitic, sctrd fn ppt inter fsl & XLN & reXLN porosity, some sctrd clear replacement cementation, DRK STN, VARYING FROM TR FO-HVY BLK DO STN, TR ODR??, LT YLW FLOR.

Lm- Off White Cream, VF-FXLN, dense, well cemented, mostly tight w/ sctrd micro XLN & XLN porosity, clean & barren, few pcs of sl cherty Ls w/ min. vis. porosity

Lm- Cream Off White, FXLN, densely packed & oolitic, loosely cemented, sl chalky in part, sctrd micro XLN inter fsl porosity, vry clean & barren

Lm- Cream off White, FXLN, sl fsl, sl chalky in part, poorly dev. w/ sctrd XLN porosity, some loosely cemented, clean & barren

Sh- Maroon, gummy wash

Lm- Cream Tan, VF-FXLN, well cemented, densely packed & oolitic, sctrd micro & XLN porosity, poorly dev. barren

Lm- Gray Off White, VF-FXLN, dense, well cemented, tight, sctrd micro XLN porosity, barren

Lm/Chert- Tan Black, high-energy trashy Ls & chert w/ min. vis. porosity, barren

Sh- Gray Green Maroon, dense & waxy, gritty & earthy

**D** Lm- Off White, FXLN, fsl & oolitic, sctrd dev. w/ XLN & sctrd fn ppt inter oolitic porosity, 2-3 PCS W/ BLK RESIDUAL STN, NSFO, NO ODR

Lm- Gray, VF-FXLN, dense, well cemented, tight w/ min. vis. porosity, barren

SHORT TRIP SURVEY 1 deg. STRAP +1.08'

DST #1 LKC A 4198' - 4226' 30-45-30-60

490' TOTAL FLUID  
340' WATER  
150' WCM (85%W,15%M)

IFP: 18-137#  
FFP: 142-245#  
SIP: 1222-1215#

4226.jpg

DST #2 LKC D 4255' - 4282' 30-30-30-45

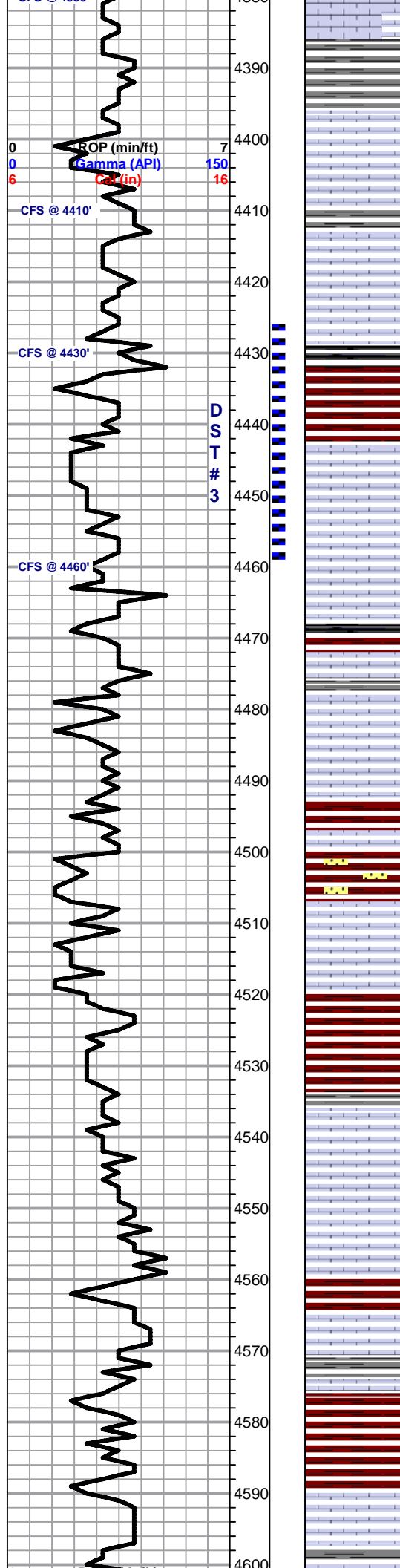
70' SWCM (3%W,97%M)

IFP:14-41#  
FFP: 43-63#  
SIP: 1134-1162#

4258.jpg

4282.jpg

4380.jpg



Sh- Gray Maroon, gritty & earthy, sandy shale/shaley Ss

Lm- Cream Tan, VF-FXLN, dense, well cemented, poorly dev., sl fsl, sctrd XLN porosity, barren & tight

Lm- Cream Off White, FXLN, densely packed oolites, poorly dev. w/ dense clear replacement cementation, sctrd micro XLN porosity, clean & barren

Lm- Off White, VFXLN, dense, well cemented, tight w/ min. vis. porosity, tight cherty Ls, some soft white chalk, vry clean & barren

Sh- Black Maroon Gray, fissile & carbonaceous, gritty & earthy

Lm- Cream, FXLN, oolitic, sctrd ppt inter oolite porosity, SCTRD LT STN, TR FO, WK ODR, SLW STRM FLOR

Lm- Gray Cream, FXLN, dense, well cemented, fsl, high-energy sl trashy, sctrd XLN & clear reXLN porosity, barren

Sh- Black Maroon Green, fissile & carbonaceous, gritty & earthy, sandy

Lm- Gray Tan, VF-FXLN, dense, well cemented, high-energy w/ fsl fragments, poor vis. porosity

Lm- Buff, FXLN, oolitic, sctrd XLN & fn ppt inter oolite porosity, clean & barren

**BKC 4500' (-1067) E-LOG 4491' (-1058)** Sh- Maroon Gray, gritty & earthy, calcareous

Sh/Ss- Maroon Gray Green, gritty & earthy, Ss- Frosted, med grn, consolidated & well sorted, rounded & mature, friable, barren

Lm- Cream Buff, VF-FXLN, dense, well cemented, tight w/ sctrd-dense XLN porosity

Lm- Cream Off White, FXLN, dense, loosely cemented & chalky to well cemented & tight w/ sctrd XLN porosity & sctrd clear replacement cementation, all barren

Sh- Maroon Brown Gray, gritty & earthy, flakey

Sh- Dove Gray Green, sandy & calcareous sandy shale/shaley Ss

**MARMATON 4540' (-1107) E-LOG 4536' (-1103)** Lm- Cream Dove Gray, VF-FXLN, dense, well cemented & tight w/ sctrd micro XLN porosity, barren

Sh- Maroon Gray White, gummy argillaceous clumps & soft white chalk

Lm- Cream Off White Lt Gray, VFXLN, dense, well cemented & tight w/ min. vis. porosity & VF Grn well cemented mudstone

Sh- Maroon Gray Green, soft, silty & calcareous, gritty & earthy, dense & waxy

Sh- Dove Gray Maroon Brown, abundant sandy shale, dense & waxy w/ rounded qtz inclusions

Sh- Gray, dense & waxy, semi sandy gummy clumps

10 STND TRIP  
CTCH 1 HR

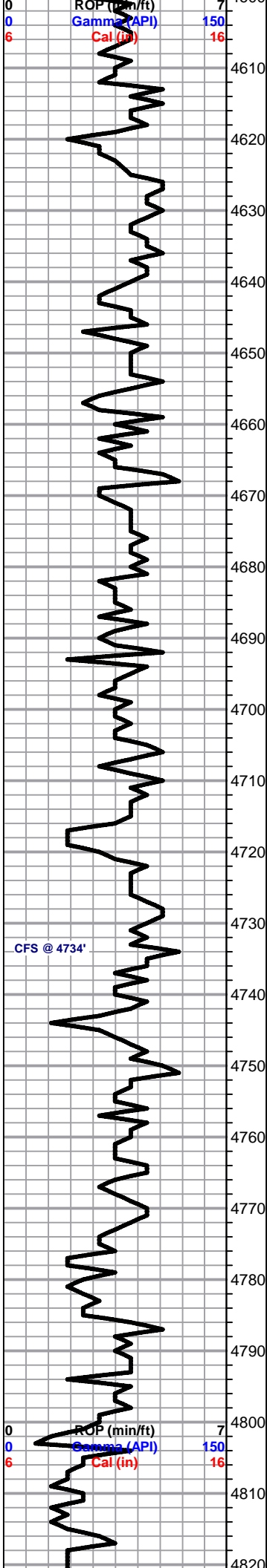
DST #3 LKC K  
4426' - 4460'  
30-30-30-30

15' OSPM

IFP: 15-24#  
FFP: 26-32#  
SIP: 1122-1025#

4460.jpg





Lm- Gray, FXLN, loosely cemented & crumbly, trashy high-energy mix

Sh- Black, platy, silty & soft

**PAWNEE 4623' (-1190) E-LOG 4623' (-1190)** Lm/Chert- Cream Buff, VFXLN, dense well cemented, tight w/ sctrd micro XLN porosity, Milky white vitreous fresh bedded chert

Lm- Gray, VFXLN, dense, well cemented & tight, no vis. porosity

Lm- Gray, FXLN, dense, well cemented, fsl, poorly dev. & sl trashy, sctrd XLN porosity, barren

Sh- Black, fissile & carbonaceous

**FORT SCOTT 4658' (-1225) E-LOG 4659' (-1226)** Lm/Chert- Cream, VF-FXLN, dense, well cemented, sctrd XLN porosity, barren, Chert-Black, sl fsl, fresh bedded chert

**CHEROKEE SHALE 4669' (-1236) E-LOG 4669' (-1236)** Sh- Black Maroon Gray, fissile & carbonaceous, gritty & earthy, sandy, argillaceous wash

Lm/Chert- Tan, VFXLN, dense, vry well cemented w/o vis. porosity Chert- Milky White Tan, sl fsl fresh bedded vitreous w/o vis. porosity

Lm- Cream Off White, VF-FXLN, mix of well cemented & tight w/ oolite inclusions, sctrd micro XLN porosity & vry tight, VFXLN w/o vis. porosity, few pcs of soft white chalk

Sh- Black Green, platy & fissile, dense & waxy

Lm- Cream, VF-FXLN, dense, well cemented, densely packed & oolitic, sctrd clear replacement cementation, sctrd XLN porosity, clean & barren

Lm- Cream Off White, VFXLN, dnse & well cemented, poorly dev. w/ sctrd micro XLN porosity, clean & barren

Sh- Gray Lt Green, dense & waxy, silty & calcareous

Lm- Cream Tan, VF-FXLN, dense, well cemented, poorly dev. & tight w/ poor vis. porosity, some sl chalky in part, some gran supported matrix

Lm- A/A Chert, Black Milky White, fresh bedded, sl fsl, virtreous w/o vis. porosity

Sh- Green Gray Maroon Black, dense & waxy, silty & calcareous, gummy wash, gritty & earthy, sandy inclusions

Lm- Tan, VFXLN, well cemented, tight w/ dense micro XLN porosity

Sh- Brown, dense & waxy, semi-gritty

Sh- A/A w/ Mint Green Mustard Yellow & Maroon, sl sandy, waxy & gritty

4820  
4830  
4840  
4850  
4860  
4870  
4880  
4890  
4900  
4910  
4920  
4930  
4940



Sh- A/A w/ gummy gray wash

Sh- A/A

**MISSISSIPPIAN 4859' (-1426) E-LOG 4850' (-1417)** Ss/Lm- Clear Frosted Mustard Yellow, consolidated & rounded mix, loosley cemented, barren, Lm- Buff, VF-FXLN, dense, well cemented, sctrd-dense micro XLN porosity, clean & barren

Lm- Mustard Yellow, VFXLN, vry well cemented, tight w/ no vis. porosity

Lm- Off White, FXLN, loosely cemented arenaceous Ls w/ sub-rounded qtz inclusions, consistent intergranular porosity, barren

**RTD 4900' (-1467) LTD 4900' (-1467) @ 13:25 9/7/2018**

10 STND SHORT  
TRIP  
CTCH  
SURVEY 1 deg.  
TOH FOR LOGS



20 mm

4226' X 20





4282' X 20



2.0 mm

4380' X 25



2.0 mm

4460' x 20