

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
--	---

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	IA Operating, Inc.
Well Name	SHIRLEY 25-1
Doc ID	1606098

All Electric Logs Run

Micro
Sonic
DIL
CDN

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report

Ticket No. **6065**
 Foreman David Gardner
 Camp Eureka

API# 15-113-21407

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
12-9-21	1296	Shirley #25-1	25	17S.	2 E.	McPherson	KS	
Customer IA Operating Inc.			Safety Meeting DG SF BW		Unit #	Driver	Unit #	Driver
Mailing Address 785 W. Covell Road, Suite 200					104	Shannon		
City Edmond					110	Broker		
State OK					113	Broker		
Zip Code 73003								

Job Type Surface Hole Depth 217' K.B. Slurry Vol. 48 Bbl - Bottom Tubing 1" Hydril
 Casing Depth 203 G.L. Hole Size 120' of 17 1/2" Slurry Wt. 15" Drill Pipe _____
 Casing Size & Wt. 8 5/8" 24" Cement Left in Casing 15' +/- Water Gal/SK _____ Other _____
 Displacement 12 1/2 Bbl Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig had lost circulation trouble from 20' Below G.L. First 120' of hole is 17 1/2". Bottom 97' of hole is 14 3/4". Rig ran 8 5/8" casing in. Rig broke circulation w/ mudd. Rig up to 8 5/8" casing. Break circulation w/ 2 Bbl fresh water. Mixed 200 sks Class A Cement w/ 3% Caclz, 2% Gel, 1/4" Floseal/sk @ 15#/gal, yield 1.35 = 48 Bbl slurry. (Hulls in 1st 50 sks). Displace w/ 12 1/2 Bbl fresh water. Shut down. Close well in. Decont circulation while cementing. No cement returned to surface. Rig up + run 1" Hydril down annular to cement basket. Rig up to 1" Hydril. Mixed 50 sks Class A Cement w/ 3% Caclz, 2% Gel, 1/4" Floseal/sk @ 15#/gal, yield 1.35 = 12 Bbl slurry. No cement returned to surface. Wait 3 HRS for more cement. Mixed 65 sks Class A Cement w/ 3% Caclz, 2% Gel, 1" Phenoseal/sk @ 15#/gal, yield 1.35 = 15 Bbl slurry. Good cement returns to surface. Shut down. Pull 1" Hydril. Wait 1 HR. Well standing full of cement. Job complete. Rig down.
 Note: 8 5/8" Basket set 20' Below G.L.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	1100.00	1100.00
C107	100	Mileage	4.20	420.00
C200	315 sks	Class A Cement	17.35	5465.25
C205	890#	Caclz 3%	.69	614.10
C206	590#	Gel 2%	.28	165.20
C209	60#	Floseal 1/4" /sk	2.60	156.00
C208	65#	Phenoseal 1" /sk - (In top cement)	1.45	94.25
C108B	H.8 Tons	Ton Mileage - Bulk Trucks	1.40	2072.00
C214	80#	Cottonseed Hulls - (In 1st 50 sks Cement)	.55	44.00
C118	1	1" Hydril Rental	m/c	150.00
C606	1	8 5/8" Cement Basket	355.00	355.00
<u>Thank You</u>			Sub Total	10,635.80
			Less 5%	559.96
			8.0 % Sales Tax	563.50

Authorization by Charlie Coulter Title Lighthouse Drlg. Tool Pusher Total 10,639.34

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Lighthouse
 Drilg.
 Co.

Cement or Acid Field Report
 Ticket No. **6099**
 Foreman Kevin McCoy
 Camp EUREKA

API # 15-113-21467

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
12-15-21	1296	Shirley # 25-1	25	175	2E	McPherson	Ks	
Customer I A Operating, Inc.			Safety Meeting KM SF BW		Unit #	Driver	Unit #	Driver
Mailing Address 785 W. Covell Rd. Ste 200					104	SHANNON F.		
City Edmond			State OK		Zip Code 73003			
					113	BROKER W.		

Job Type P.T.A. New Well Hole Depth _____ Slurry Vol. _____ Tubing _____
 Casing Depth _____ Hole Size 7 7/8 Slurry Wt. _____ Drill Pipe 4 1/2
 Casing Size & Wt. _____ Cement Left in Casing _____ Water Gal/SK _____ Other _____
 Displacement _____ Displacement PSI _____ Bump Plug to _____ BPM _____

Remarks: Safety Meeting: Rig up to 4 1/2 DRILL pipe, spot Cement Plugs AS Following.
35 SKS @ 253'
25 SKS 60' to SURFACE
30 SKS R.H.
20 SKS M.H.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 103	1	Pump Charge	1100.00	1100.00
C 107	100	Mileage	4.20	420.00
C 203	110 SKS	60/40 Pozmix Cement	14.75	1622.50
C 206	375 #	Gel 4%	.28 #	105.00
C 108.B	4.73 Tons	Mileage 100 miles	1.40	662.20
			Sub Total	3909.70
			Less 5%	202.40
			8.0% Sales Tax	138.20
Authorization <u>By Charlie Coulter</u> Title <u>Lighthouse Drilg. Toolpusher</u>			Total	3845.50

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



Company: IA Operating, Inc.
Lease: Shirley #25-1

SEC: 25 TWN: 17S RNG: 2W
 County: MCPHERSON
 State: Kansas
 Drilling Contractor: Lighthouse Drilling LLC - Rig #1
 Elevation: 1497 EGL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 534
 API #: 15-113-21407

Operation:
 Uploading recovery & pressures

DATE
 December
14
 2021

DST #1 **Formation: Mississippian** **Test Interval: 2775 - 2865'** **Total Depth: 2865'**
 Time On: 14:28 12/14 Time Off: 20:57 12/14
 Time On Bottom: 16:12 12/14 Time Off Bottom: 18:57 12/14

Electronic Volume Estimate:
 77'

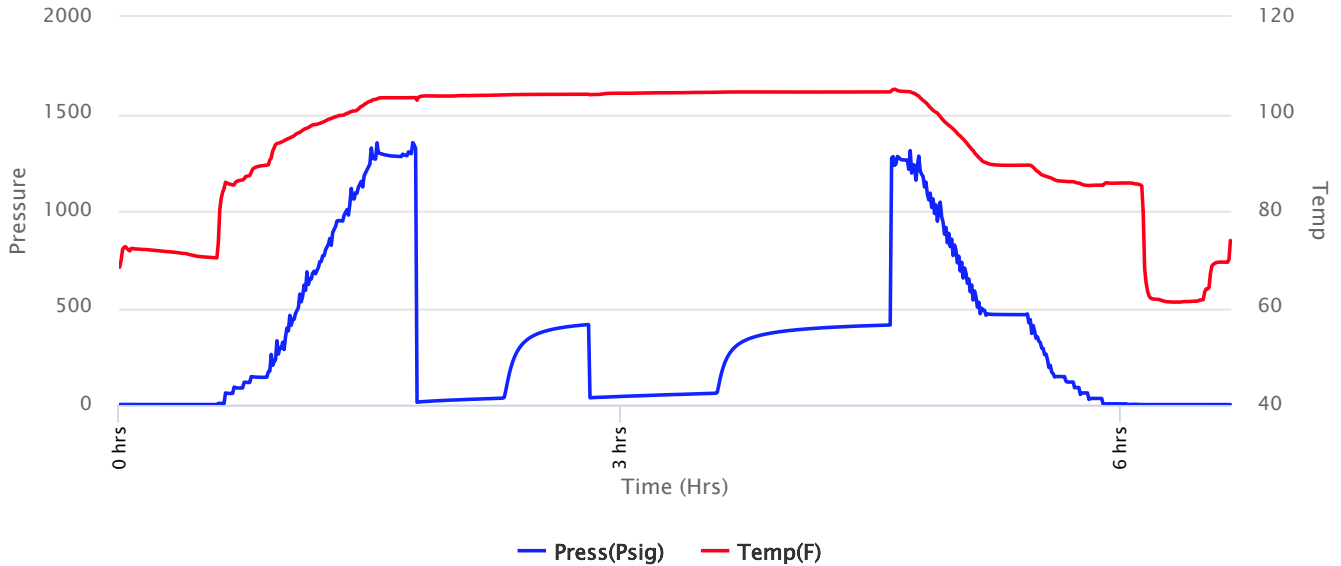
1st Open
 Minutes: 30
 Current Reading: 2.5" at 30 min
 Max Reading: 2.5"

1st Close
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: 0"

2nd Open
 Minutes: 45
 Current Reading: 1.5" at 45 min
 Max Reading: 1.5"

2nd Close
 Minutes: 60
 Current Reading: 0" at 60 min
 Max Reading: 0"

Inside Recorder





Company: IA Operating, Inc.
Lease: Shirley #25-1

SEC: 25 TWN: 17S RNG: 2W
 County: MCPHERSON
 State: Kansas
 Drilling Contractor: Lighthouse Drilling LLC - Rig #1
 Elevation: 1497 EGL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 534
 API #: 15-113-21407

Operation:
 Uploading recovery & pressures

DATE
 December
14
 2021

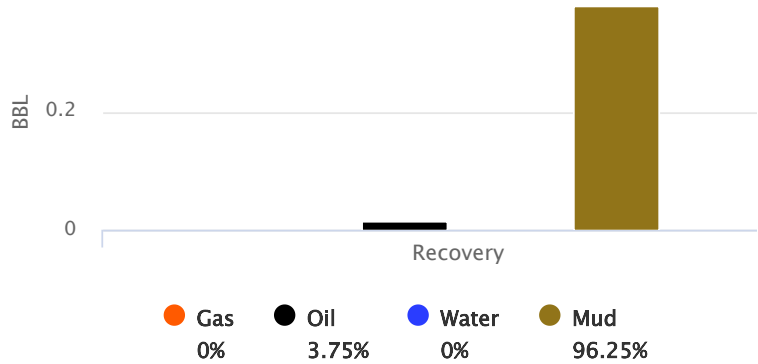
DST #1 **Formation: Mississippian** **Test Interval: 2775 - 2865'** **Total Depth: 2865'**
 Time On: 14:28 12/14 Time Off: 20:57 12/14
 Time On Bottom: 16:12 12/14 Time Off Bottom: 18:57 12/14

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
20	0.0984	M	0	0	0	100
60	0.2952	SLOCM	0	5	0	95

Total Recovered: 80 ft
 Total Barrels Recovered: 0.3936

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1295	PSI
Initial Flow	14 to 35	PSI
Initial Closed in Pressure	414	PSI
Final Flow Pressure	36 to 60	PSI
Final Closed in Pressure	412	PSI
Final Hydrostatic Pressure	1280	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.6	%

GIP cubic foot volume: 0



Company: IA Operating, Inc.
Lease: Shirley #25-1

SEC: 25 TWN: 17S RNG: 2W
County: MCPHERSON
State: Kansas
Drilling Contractor: Lighthouse Drilling
LLC - Rig #1
Elevation: 1497 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 534
API #: 15-113-21407

Operation:
Uploading recovery &
pressures

DATE
December
14
2021

DST #1	Formation: Mississippian	Test Interval: 2775 - 2865'	Total Depth: 2865'
	Time On: 14:28 12/14	Time Off: 20:57 12/14	
	Time On Bottom: 16:12 12/14	Time Off Bottom: 18:57 12/14	

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to 2 1/4"

1st Close: No BB

2nd Open: Surface blow building to 1 1/4"

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .1% Oil 0% Water 99.9% Mud



Company: IA Operating, Inc.
Lease: Shirley #25-1

SEC: 25 TWN: 17S RNG: 2W
County: MCPHERSON
State: Kansas
Drilling Contractor: Lighthouse Drilling
LLC - Rig #1
Elevation: 1497 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 534
API #: 15-113-21407

Operation:
Uploading recovery &
pressures

DATE
December
14
2021

DST #1 **Formation: Mississippian** **Test Interval: 2775 - 2865'** **Total Depth: 2865'**
Time On: 14:28 12/14 Time Off: 20:57 12/14
Time On Bottom: 16:12 12/14 Time Off Bottom: 18:57 12/14

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 47 **Filtrate:** 10.5 **Chlorides:** 1700 ppm



Company: IA Operating, Inc.
Lease: Shirley #25-1

SEC: 25 TWN: 17S RNG: 2W
 County: MCPHERSON
 State: Kansas
 Drilling Contractor: Lighthouse Drilling
 LLC - Rig #1
 Elevation: 1497 EGL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 534
 API #: 15-113-21407

Operation:
 Uploading recovery &
 pressures

DATE
 December
14
 2021

DST #1 **Formation: Mississippian** **Test Interval: 2775 - 2865'** **Total Depth: 2865'**
 Time On: 14:28 12/14 Time Off: 20:57 12/14
 Time On Bottom: 16:12 12/14 Time Off Bottom: 18:57 12/14

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D

Scale 1:240 Imperial

Well Name: SHIRLEY # 25-1
Surface Location: SE NW NE NE Sec. 25 - 17S - 2W
Bottom Location:
API: 15-113-21407
License Number: 33335
Spud Date: 12/8/2021 Time: 4:30 PM
Region: MCPHERSON COUNTY KANSAS
Drilling Completed: 12/15/2021 Time: 12:04 AM
Surface Coordinates: 377' FNL & 805' FEL
Bottom Hole Coordinates:
Ground Elevation: 1497.00ft
K.B. Elevation: 1509.00ft
Logged Interval: 1750.00ft To: 2910.00ft
Total Depth: 2910.00ft
Formation: MISSISSIPPIAN
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: IA OPERATING, INC.
Address: 785 W COVELL RD
STE. 200
EDMOND, OK 73003-2389
Contact Geologist: JONATHAN ALLEN
Contact Phone Nbr: (316) 721-0036
Well Name: SHIRLEY # 25-1
Location: SE NW NE NE Sec. 25 - 17S - 2W
API: 15-113-21407
Pool: Field: UNNAMED
State: KANSAS Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: 38.54985
Latitude: -97.484943
N/S Co-ord: 377' FNL
E/W Co-ord: 805' FEL

LOGGED BY



Company: BIG CREEK CONSULTING, INC.
Address: 3504 DUNCAN ST
ST. JOE, MO 64507
Phone Nbr: (785) 259-3737
Logged By: GEOLOGIST Name: JEFF LAWLER

CONTRACTOR

Contractor: LIGHTHOUSE DRILLING
Rig #: 1
Rig Type: MUD ROTARY
Spud Date: 12/8/2021 Time: 4:30 PM
TD Date: 12/15/2021 Time: 12:04 AM
Rig Release: 12/16/2021 Time: 10:00 PM

ELEVATIONS

K.B. Elevation: 1509.00ft
K.B. to Ground: 12.00ft

Ground Elevation: 1497.00ft

NOTES

DUE TO STRUCTURAL POSITION AND LACK OF ECONOMICAL RECOVERY DECISION WAS MADE TO PLUG & ABANDON THE SHIRLEY #25-1

RESPECTFULLY SUBMITTED,
JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	SHIRLEY #25-1				E/2 SW 25-17-2				SE NE NE 25-17-2				NE NE SE 25-17-2				P&A 1-88			
	KB 1509		GL 1497		KB 1364		KB 1427		KB 1382		KB 1373		KB 1373		KB 1373		KB 1373			
	LOG TOPS		SAMPLE TOPS		LOG		SMPL.		LOG		SMPL.		LOG		SMPL.		LOG		SMPL.	
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM
HEEBNER SHALE	2033	-524	2034	-525	1907	-543	+ 19	+ 18	1948	-521	- 3	- 4	1912	-530	+ 6	+ 5	1892	-519	- 5	- 6
TORONTO	2055	-546	2050	-541	1925	-561	+ 15	+ 20	1970	-543	- 3	+ 2	1932	-550	+ 4	+ 9	1907	-534	- 12	- 7
DOUGLAS SHALE	2067	-558	2068	-559	1944	-580	+ 22	+ 21	1983	-556	- 2	- 3	1946	-564	+ 6	+ 5	1924	-551	- 7	- 8
1st DOUGLAS SAND	2072	-563	2072	-563	1952	-588	+ 25	+ 25					1952	-570	+ 7	+ 7	1930	-557	- 6	- 6
2nd DOUGLAS SAND	2197	-688	2190	-681	2066	-702	+ 14	+ 21					2068	-686	- 2	+ 5	2046	-673	- 15	- 8
LANSING	2262	-753	2261	-752	2127	-763	+ 10	+ 11	2176	-749	- 4	- 3	2135	-753	+ 0	+ 1	2109	-736	- 17	- 16
BKC	2596	-1087	2596	-1087	2466	-1102	+ 15	+ 15					2474	-1092	+ 5	+ 5	2436	-1063	- 24	- 24
FT SCOTT	2739	-1230	2737	-1228	2604	-1240	+ 10	+ 12					2612	-1230	+ 0	+ 2	2578	-1205	- 25	- 23
CHEROKEE	2750	-1241	2750	-1241	2618	-1254	+ 13	+ 13					2624	-1242	+ 1	+ 1	2589	-1216	- 25	- 25
MISSISSIPPIAN WARSAW					2717	-1353			2760	-1333							2678	-1305		
MISS. OSAGE	2863	-1354	2861	-1352	2726	-1362	+ 8	+ 10					2723	-1341	- 13	- 11	2720	-1347	- 7	- 5
KINDERHOOK																	2904	-1531		
HUNTON																	3006	-1633		
MAQUOKETA																	3080	-1707		
VIOLA																	3185	-1812		
SIMPSON DOLOMITE																	3350	-1977		
ARBuckle																				
TOTAL DEPTH	2911	-1402	2910	-1401	2735	-1371	- 31	- 30	2766	-1339	- 63	- 62	2765	-1383	- 19	- 18	3400	-2027	+ 625	+ 626

DST #1 MISSISSIPPIAN WARSAW/OSAGE 2775' - 2865'



Company: IA Operating, Inc.
Lease: Shirley #25-1

SEC: 25 TWN: 17S RNG: 2W
County: MCPHERSON
State: Kansas
Drilling Contractor: Lighthouse Drilling LLC - Rig #1
Elevation: 1497 EGL
Field Name: Wildcat
Pool: WILD CAT
Job Number: 534
API #: 15-113-21407

Operation:

Uploading recovery & pressures

DATE

December
14
2021

DST #1

Formation: Mississippian

Test Interval: 2775 - 2865'

Total Depth: 2865'

Time On: 14:28 12/14

Time Off: 20:57 12/14

Time On Bottom: 16:12 12/14

Time Off Bottom: 18:57 12/14

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
20	0.0984	M	0	0	0	100
60	0.2952	SLOCM	0	5	0	95

Total Recovered: 80 ft

Total Barrels Recovered: 0.3936

Reversed Out
NO

Recovery at a glance

Initial Hydrostatic Pressure	1295	PSI
Initial Flow	14 to 35	PSI
Initial Closed in Pressure	414	PSI
Final Flow Pressure	36 to 60	PSI
Final Closed in Pressure	412	PSI

BBL

0.2

0

Recovery

Final Hydrostatic Pressure	1280	PSI
Temperature	105	°F
Pressure Change Initial	0.6	%
Close / Final Close		

GIP cubic foot volume: 0

● Gas	● Oil	● Water	● Mud
0%	3.75%	0%	96.25%

DST #1 MISSISSIPPIAN WARSAW/OSAGE 2775' - 2865'



Company: IA Operating, Inc.
Lease: Shirley #25-1

SEC: 25 TWN: 17S RNG: 2W
 County: MCPHERSON
 State: Kansas
 Drilling Contractor: Lighthouse Drilling LLC - Rig #1
 Elevation: 1497 EGL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 534
 API #: 15-113-21407

Operation:
 Uploading recovery & pressures

DATE
 December
14
 2021

DST #1	Formation: Mississippian	Test Interval: 2775 - 2865'	Total Depth: 2865'
	Time On: 14:28 12/14	Time Off: 20:57 12/14	
	Time On Bottom: 16:12 12/14	Time Off Bottom: 18:57 12/14	

Electronic Volume Estimate:
77'

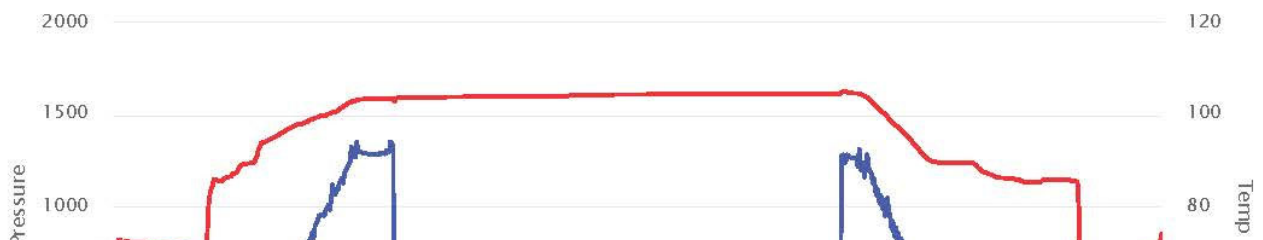
1st Open
 Minutes: 30
 Current Reading: 2.5" at 30 min
 Max Reading: 2.5"

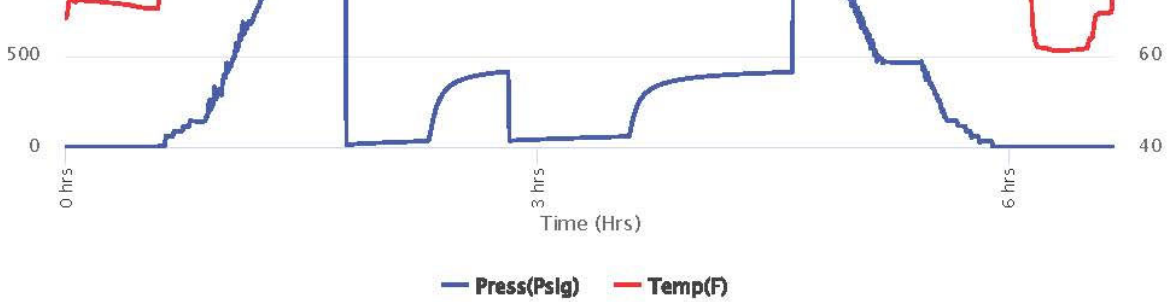
1st Close
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: 0"

2nd Open
 Minutes: 45
 Current Reading: 1.5" at 45 min
 Max Reading: 1.5"

2nd Close
 Minutes: 60
 Current Reading: 0" at 60 min
 Max Reading: 0"

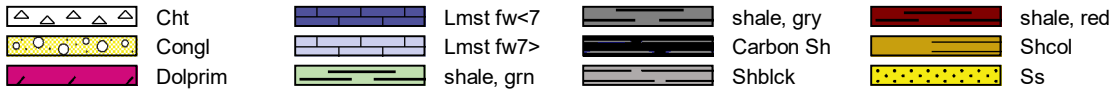
Inside Recorder





— Press(Pslg) — Temp(F)

ROCK TYPES



ACCESSORIES

STRINGER

~~~~ Chert

**OTHER SYMBOLS**

**DST**

DST Int  
 DST alt

Printed by GEOstrip VC Striplog version 4.0.8.15 ([www.grsi.ca](http://www.grsi.ca))

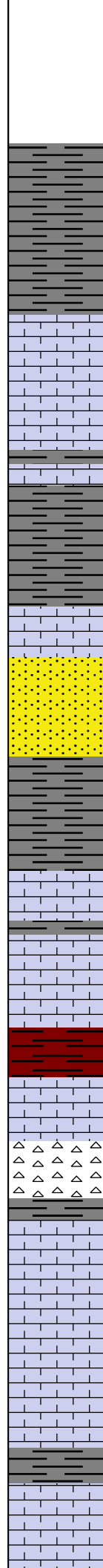
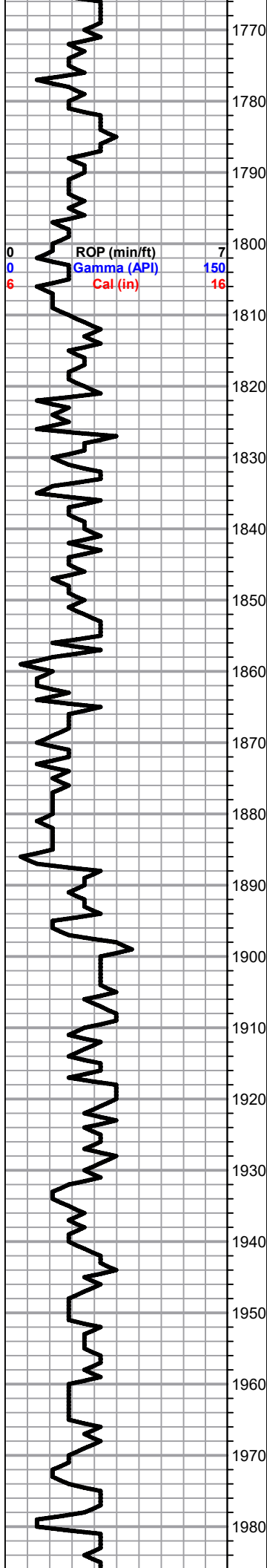
| Curve Track #1 |             | Depth   Intervals | DST | Lithology | Oil Show | Geological Descriptions | Curve Track #3 |              |
|----------------|-------------|-------------------|-----|-----------|----------|-------------------------|----------------|--------------|
| ROP (min/ft)   | Gamma (API) |                   |     |           |          |                         | Cal (in)       | ROP (min/ft) |
| 0              | 150         | 0                 |     |           |          |                         | 0              | 150          |
| 6              | 16          | 6                 |     |           |          |                         | 6              | 16           |
|                |             | 1760              |     |           |          |                         |                |              |

1' DRILL TIME FROM 1750' - RTD  
 10' WET/DRY SAMPLES FROM 1800' - RTD



**GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 1750' - RTD**

**8 5/8" SURFACE PIPE SET @ 203'**



Sh- Gray Maroon, silty & soft, gritty & earthy

Sh- A/A, many in turbulent flow, Ss- Frosted, Fn Grn, consolidated & loosely cemented, sub-angular, barren

Lm- Lt Gray Tan, VFXLN, dense, brittle cherty Ls w/ dense XLN porosity, barren

Lm- Cream Off White, FXLN, fsl, semi-brittle, dense XLN porosity, barren

Lm- Buff Cream, FXLN, fsl, well cemented & dense w/ sctrd XLN porosity, barren

Lm- Cream Off White, VFXLN, dense, well cemented & tight w/ sctrd XLN porosity

Ss- Clear/Frosted, Fn Grn, consolidated & well sorted, sub-rounded, glauconite inclusions, barren

Sh- Gray, semi-calcareous, silty

Lm- Buff Cream, FXLN, fsl, mostly tight w/ sctrd XLN porosity

Sh- Maroon Gray, gritty & earthy, soft & sl silty

Lm- Cream Off White Tan, FXLN, fsl & oolitic, sctrd to dense XLN porosity, some brittle & sl cherty like, barren

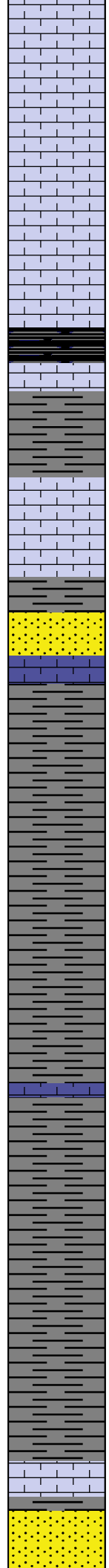
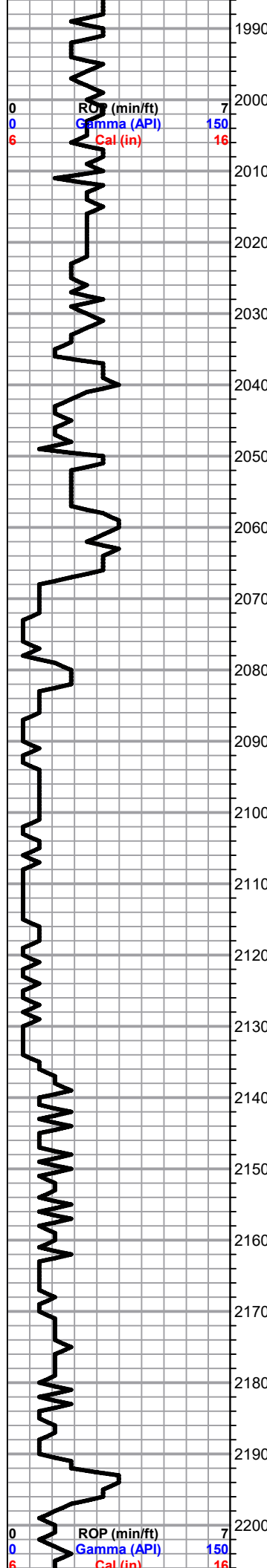
Lm/Chert- White, VFXLN, dense, brittle mix of fsl fresh bedded chert, cryptoXLN & cherty Lm/limey chert, sctrd XLN porosity, some sl chalky in part, all barren

Lm- White Off White, FXLN, sl fsl, chalky in part, sctrd to dense XLN porosity, some soft white chalk, barren

Lm- Buff, FXLN, hvy fsl & mottled, sctrd to dense XLN porosity, few loose crinoids, barren

Lm- Cream Tan, FXLN, dense fsl, vry dense XLN porosity (fractured?), clear replaced cementation & secondary reXLN porosity, barren, severl pcs of fsl fresh bedded chert

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



Lm- Tan Off White, VF-FXLN, dense, brittle cherty Ls, min. vis. to sctrd XLN porosity, barren, few pcs sl dolomitic

LM- Off White Buff, VFXLN, dense, well cemetned cherty Ls w/ sctrd XLN porosity

Lm- Gray Buff, VFXLN, dense, well cemented cherty Ls w/ min. vis. to sctrd XLN porosity

Lm- Buff Cream, FXLN, hvy fsl, well cemented, sctrd microXLN & XLN porosity, barren

**HEEBNER 2034' (-525) E-LOG 2033' (-524)** Sh- Black Gray Maroon, fissile & carbonaceous, calcareous, gritty & earthy

**TORONTO 2050' (-541) E-LOG 2055' (-546)** Lm- Cream Off White, FXLN, fsl, clear replacement cementation & reXLN veins, sctrd-dense XLN porosity, barren

**DOUGLAS SHALE 2068' (-559) E-LOG 2067' (-558)** Sh- Gray Maroon, silty & soft, micaceous, gritty & earthy

**1st DOUGLAS SAND 2072' (-563) E-LOG 2072' (-563)** Ss- Gray, Vf Grn, consolidated & mod. sorted, sub-rounded, friable, sl calcareous, barren

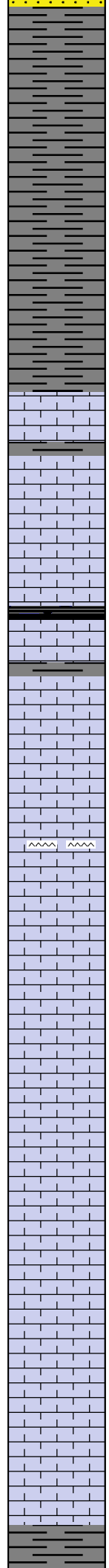
Sh- Gray Maroon, silty & soft, calcareous, gritty & earthy

Sh- Gray Maroon Green, calcareous & soft, gritty & earthy, calcareous

**\*\*DISPLACE 2196' - 2220'\*\***

**2nd DOUGLAS SAND 2190' (-681) E-LOG 2197' (-688)** Ss- Vf-Fn Grn, consolidated & well sorted, sub-rounded, calcareous, friable, barren

2210  
2220  
2230  
2240  
2250  
2260  
2270  
2280  
2290  
2300  
2310  
2320  
2330  
2340  
2350  
2360  
2370  
2380  
2390  
2400  
2410  
2420



Sh- Gray Maroon, calcareous, some semi-waxy, gritty & earthy

**LANSING 2261' (-752) E-LOG 2262' (-753)** Lm- Cream Off White, FXLN, sl fsl, brittle, sctrd XLN porosity, barren

Lm- Cream Tan, oolitic & fsl, sctrd to dense XLN porosity, barren, several pcs of white fresh bedded chert, cryptoXLN

Lm- Cream Tan Buff, VF-FXLN, sl fsl, mostly tight w/ min. vis. to sctrd XLN porosity, several loose crinoids & bivalves

Sh- Black Gray, carboanceous, dense & silty

Lm- Brown Tan, FXLN, sl fsl, sctrd mottling, sctrd to dense XLN porosity, some chalky in part, barren, several pcs of dolomitic cherty Ls

Lm- Buff Tan, FXLN, fsl fragments, sctrd XLN porosity, grainy, barren

Lm- Cream Tan, FXLN, sl fsl, sl cherty Ls w/ sctrd XLN porosity, barren

Lm- Cream Tan, FXLN, fsl, cherty Ls w/ sctrd clear replacement cementation & dense reXLN porosity, barren

Lm- Cream Tan Semi-Translucent, FXLN, oolitic & sl oomoldic, massive, fractured w/ dense XLN porosity, dense reXLN porosity, barren

Lm- Cream Off White, FXLN, sl oolitic, dolomitic w/ consistent XLN porosity throughout, barren

Lm- Buff Gray, VFXLN, dense, well cemented & tight w/ sctrd XLN porosity

A/A

A/A w/ several pcs of cherty Ls w/o vis. porosity

SURVEY @  
2288' 1 3/4 deg.

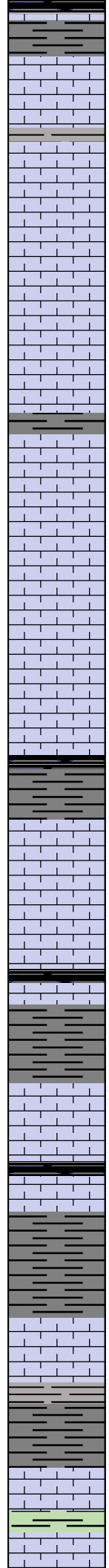
0  
0  
6

ROP (min/ft)  
Gamma (API)  
Sal (in)

7  
150  
16

2430  
2440  
2450  
2460  
2470  
2480  
2490  
2500  
2510  
2520  
2530  
2540  
2550  
2560  
2570  
2580  
2590  
2600  
2610  
2620  
2630  
2640

0 ROP (min/ft) 7  
0 Gamma (API) 150  
6 Cal (in) 16



Sh- Black Gray, fissile & carbonaceous, silty & sl sandy

Lm- Cream Tan Buff, VF-FXLN, dense tight mix, some cherty Ls w/ min. vis. porosity, mostly w/ sctrd to dense XLN porosity, barren

Lm- Off White Cream, FXLN, fsl & oolitic, some dolomitic Ls w/ consistent micro XLN porosity, sctrd XLN porosity, some sl chalky in part, barren

Lm- Buff, FXLN, fsl fragments, dolomitic cherty Ls w/ sctrd XLN porosity, barren

Lm- Cream Off White, FXLN, fsl & oolitic, mix of well cemented w/ dense XLN porosity & chalky in part & loosely cemented, all barren

Lm- Tan, VFXLN, dense & vry well cemented, tight w/ poor vis. porosity, sl cherty Ls w/ sctrd micro XLN porosity

Lm- Cream Buff, VFXLN, dense, well cemented & tight w/ poor vis. porosity, barren

A/A

Sh- Black Gray Maroon, fissile & carbonaceous, dense & calcareous

Lm- Cream Off White, VF Grn, dense tight mud supported matrix, poor vis. porosity, barren

Sh- Black Gray, fissile & carbonaceous, sl sandy & silty

Sh- Gray, calcareous, micaceous

Lm- Cream Off White, VF-FXLN, dense, well cemented & tight cherty Ls w/ sctrd XLN porosity, barren

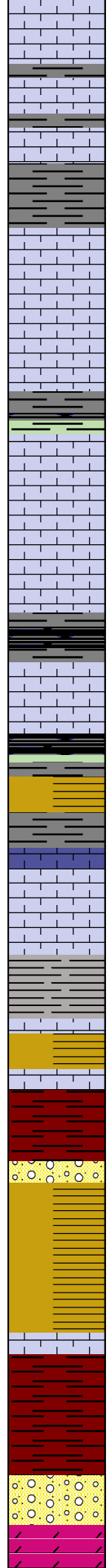
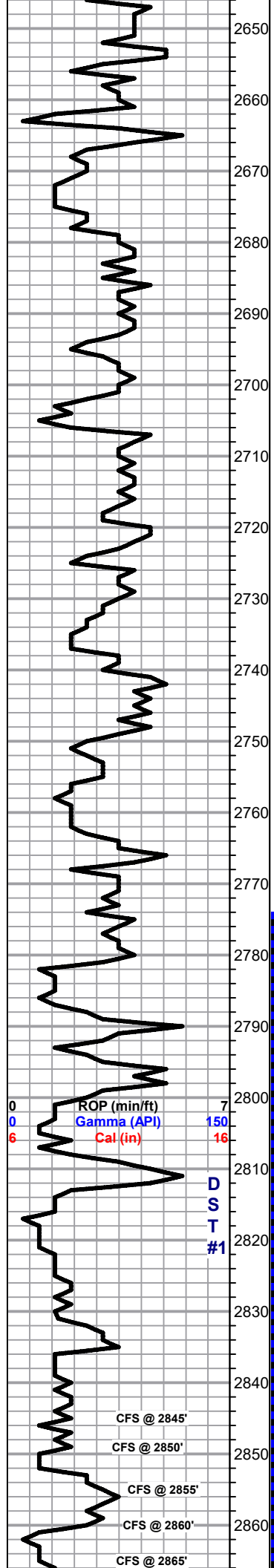
Sh- Black, fissile & carbonaceous

**BKC 2596' (-1087) E-LOG 2596' (-1087)** Sh- Gray Green, calcareous & sandy

Lm- Cream Buff, VF-FXLN, fsl, well cemented & tight w/ micro XLN porosity, barren

Sh- Black Gray White, fissile, calcareous, argillaceous clumps/wash

Lm- Cream Off White, FXLN, sl fsl, mostly tight w/ sctrd XLN porosity, some chalky in part



Sh- Gray Green Maroon, soft, semi-waxy, calcareous

Lm- Gray Buff, VF-FXLN, dense, tight, poor vis. porosity

Sh- Gray, soft & calcareous Ss- Frosted, Fn Grn, limey, loosely to well cemented, sub-rounded, barren, consolidated & mod. sorted

Lm- Cream Off White, FXLN, sl fsl, sctrd-dense XLN porosity, barren

Lm- Brown, VFXLN, dense, tight cherty Ls w/ sctrd XLN porosity

Lm- Tan Buff, VFXLN< dense & well cemented w/ sctrd XLN porosity

Sh- Black Green, fissile & carbonaceous, sl sandy

Lm- Cream Tan, FXLN, brittle, sctrd XLN porosity, barren

Sh- Black Gray, fissile & carbonaceous, calcareous, argillaceous

**FT SCOTT 2737' (-1228) E-LOG 2739' (-1230)** Lm- Tan Buff, VF-FXLN, dense, brittle, tight w/ sctrd XLN porosity, few pcs sl dolomitic

**CHEROKEE SHALE 2750' (-1241) E-LOG 2750' (-1241)** Sh- Black Gray Green Mustard Yellow, fissile & carbonaceous, calcareous, argillaceous wash/clumps

Lm- Cream, VF-FXLN, fsl & sl oolitic, sctrd XLN porosity, several pcs of mudstone w/o vis. porosity, all barren

Lm- Buff, VFXLN, dense, well cemented & tight w/ sctrd XLN porosity

Sh-Black Gray, semi-waxy, calcareous

Sh- Gray Green Mustard Yellow, blocky & dense, waxy, some gummy clumps

Sh- Gray Maroon, calcareous, micaceous

**CONGLOMERATE Ls- Cream Off White Maroon Tint, VF-FXLN, dense, well cemented & tight w/ micro XLN to sctrd XLN porosity**

Sh- Gray Mustard Yellow Maroon, calcareous, sl fsl, argillaceous clumps

Lm- Cream Off White, FXLN, sl fsl, sctrd XLN porosity, barren

Sh- Maroon White Mustard Yellow, abundant argillaceous clumps

Sh- Red Mint Green Purple Mustard Yellow, Conglomerate waxy & argillaceous, A/A, few w/ rounded fn grn qtz inclusions

A/A w/ conglomerate Ls

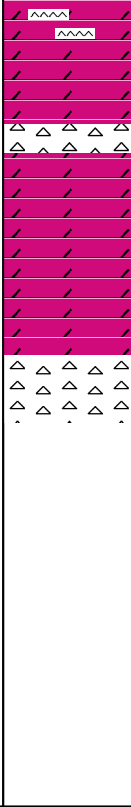
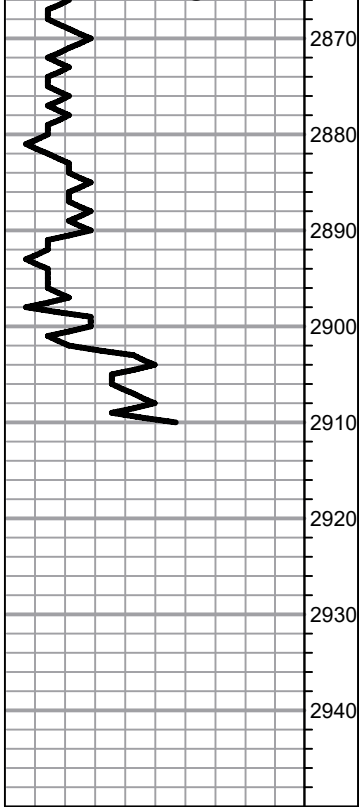
**MISSISSIPPIAN OSAGE 2861' (-1352) E-LOG 2863' (-1354)** Chert/Dol-White Translucent, tripolitic chert w/ sctrd vry fn ppt porosity Dol- Cream Tan, FXLN

SHORT TRIP SURVEY 1 3/4

DST #1 MISS. 2775' - 2865' 30-30-45-60

80' TOTAL FLUID  
20' MUD  
60' SLOCM (5% O, 95% M)

IFP: 14-35#  
FFP: 36-60#  
SIP: 414-412#  
BHT: 105 deg.



White translucent, triplicate chert w/ sctrd vry m ppt porosity, Dol- Cream Off White, FXLN, loosely cemented w/ consistent XLN porosity throughout, ALL W/ SCTRD-SUB-SAT STN, SHW GSY FO, GD ODOR

Chert- White, vitreous fresh bedded sl fsl, cryptoXLN, some gritty dolomitic cherty w/ mostly consistent micro XLN porosity, SCTRD LT STN, NSFO, TR ODR

Dol- Cream Off White, VF-FXLN, loosley cemented, consistent micro XLN porosity throughout, some cherty dolomite, barren

Chert- Cream Off White Yellow, vitreous fresh bedded, some sl fsl, mostly all cryptoXLN, clean & barren

RTD 2910' (-1401) LTD 2911' (-1402) @ 12:04 12/15/2021

TIH W/ ELI  
WIRELINE  
HIT BRIDGE @  
874'  
TOH  
TIH W/ BIT TO  
1000'  
CTCH  
TOH  
TIH W/ WIRELINE  
PUSH BRIDGE  
FROM 2200' TO  
BOTTOM