



Scale 1:240 Imperial

Well Name: Reissig #1-23  
 Surface Location: Sec. 23 - T25S - R13W  
 Bottom Location:  
     API: 15-185-24063-0000  
 License Number: 34434  
     Spud Date: 12/2/2019                      Time: 8:00 PM  
     Region: Stafford County  
 Drilling Completed: 12/11/2019                      Time: 6:45 PM  
 Surface Coordinates: 592' FNL & 2304' FEL  
 Bottom Hole Coordinates:  
     Ground Elevation: 1919.00ft  
     K.B. Elevation: 1929.00ft  
     Logged Interval: 0.00ft                      To: 4350.00ft  
     Total Depth: 4350.00ft  
     Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**OPERATOR**

Company: Edison Operating Company LLC  
 Address: 8100 E. 22nd St. North  
           Building 1900  
           Wichita, KS 67226  
 Contact Geologist: David Withrow  
 Contact Phone Nbr: 316.613.1544  
 Well Name: Reissig #1-23  
 Location: Sec. 23 - T25S - R13W  
     API: 15-185-24063-0000  
     Pool: Wildcat                              Field:  
     State: Kansas                              Country: USA

**LOGGED BY**



Company: Edison Operating Company LLC  
 Address: 8100 E. 22nd St. North  
           Building 1900  
           Wichita, KS 67226  
 Phone Nbr: 316.650.9677  
 Logged By: Geologist                              Name: Adam T. Kennedy

**REMARKS**

After review of the geological log, drill stem results, and open hole logs, it was agreed upon by all parties, to run 5 1/2" casing to further test the Arbuckle for commercial quantities of oil and gas.

Respectfully submitted,

Adam T. Kennedy

**GENERAL INFORMATION**

**Service Companies**

Drilling Contractor: Southwind Drilling - Rig #1  
     Tool Pusher: Cecil Farmer  
     Daylight Driller: Travis Epp  
     Evening Driller: Angel Rodriguez  
     Morning Driller: Ryan Hamby  
  
 Gas Detector: Bluestem Environmental  
     Engineer: Keith Reavis  
     Unit: 5279  
 Operational By: 2500'

Drilling Fluid: Mud-Co/Service Mud Inc.  
 Engineers: Jason Whiting

Logging Company: Eli Wireline  
 Engineer: Jeff Lubbers  
 Logs Ran: DI, CDNL, Micro, Sonic

Testing Company: Diamond Testing  
 Tester: Ricky Ray



Formation	Sample	Sub Sea	Log	Sub Sea	Sample	Log	Sub Sea	Sample	Log	Sub Sea	Sample	Log	Sub Sea	Sample	Log	
Topeka			3128	-1195												
Heebner	3472	-1543	3470	-1541	3473	-1540	-3	-1	3475	-1541	-2	0	3470	-1544	1	3
Toronto	3494	-1565	3490	-1561	3494	-1561	-4	0	3494	-1560	-5	-1	3490	-1564	-1	3
Douglas	3516	-1587	3512	-1583	3513	-1580	-7	-3	3516	-1582	-5	-1	3514	-1588	1	5
Brown Lime	3625	-1696	3624	-1695	3624	-1691	-5	-4	3631	-1697	1	2	3626	-1700	4	5
Lansing-Kansas City	3652	-1723	3652	-1723	3654	-1721	-2	-2	3658	-1724	1	1	3651	-1725	2	2
LKC 'B'	3671	-1742	3669	-1740	3671	-1738	-4	-2	3674	-1740	-2	0	3669	-1743	1	3
LKC 'D'	3699	-1770	3698	-1769	3699	-1766	-4	-3	3702	-1768	-2	-1	3698	-1772	2	3
Muncie Creek	3784	-1855	3782	-1853	3786	-1853	-2	0	3790	-1856	1	3	3786	-1860	5	7
LKC 'H'	3790	-1861	3790	-1861	3789	-1856	-5	-5	3795	-1861	0	0	3790	-1864	3	3
LKC 'I'	3808	-1879	3808	-1879	3807	-1874	-5	-5	3804	-1870	-9	-9	3808	-1882	3	3
LKC 'J'	3822	-1893	3821	-1892	3821	-1888	-5	-4	3826	-1892	-1	0	3820	-1894	1	2
Stark	3857	-1928	3858	-1929	3857	-1924	-4	-5	3865	-1931	3	2	3860	-1934	6	5
LKC 'K'	3866	-1937	3862	-1933	3866	-1933	-4	0	3870	-1936	-1	3	3862	-1936	-1	3
Hushpuckney	3893	-1964	3894	-1965	3896	-1963	-1	-2	3900	-1966	2	1	3898	-1972	8	7
Base Kansas City	3936	-2007	3938	-2009	3939	-2006	-1	-3	3946	-2012	5	3	3935	-2009	2	0
Marmaton	3946	-2017	3954	-2025	3951	-2018	1	-7	3967	-2033	16	8	3956	-2030	13	5
Kinderhook	4048	-2119	4062	-2133	4042	-2109	-10	-24	4085	-2151	32	18	4050	-2124	5	-9
Viola	4088	-2159	4094	-2165	4077	-2144	-15	-21	4122	-2188	29	23	4087	-2161	2	-4
Simpson	4170	-2241	4158	-2229	4185	-2252	11	23	4176	-2242	1	13	4163	-2237	-4	8
Arbuckle	4230	-2301	4204	-2275	4235	-2302	1	27	4235	-2301	0	26	4229	-2303	2	28
Total Depth	4350	-2421	4350	-2421	4346	-2413	-8	-8	4270	-2336	-85	-85	4240	-2314	-107	-107

### ROCK TYPES

	Cht		LMST1		SILTSTONE		SHALE GRA
	Cht vari		LMST2		SHALE CAR		SHALE RED
	DOL4		Ss		SHALE GRN		

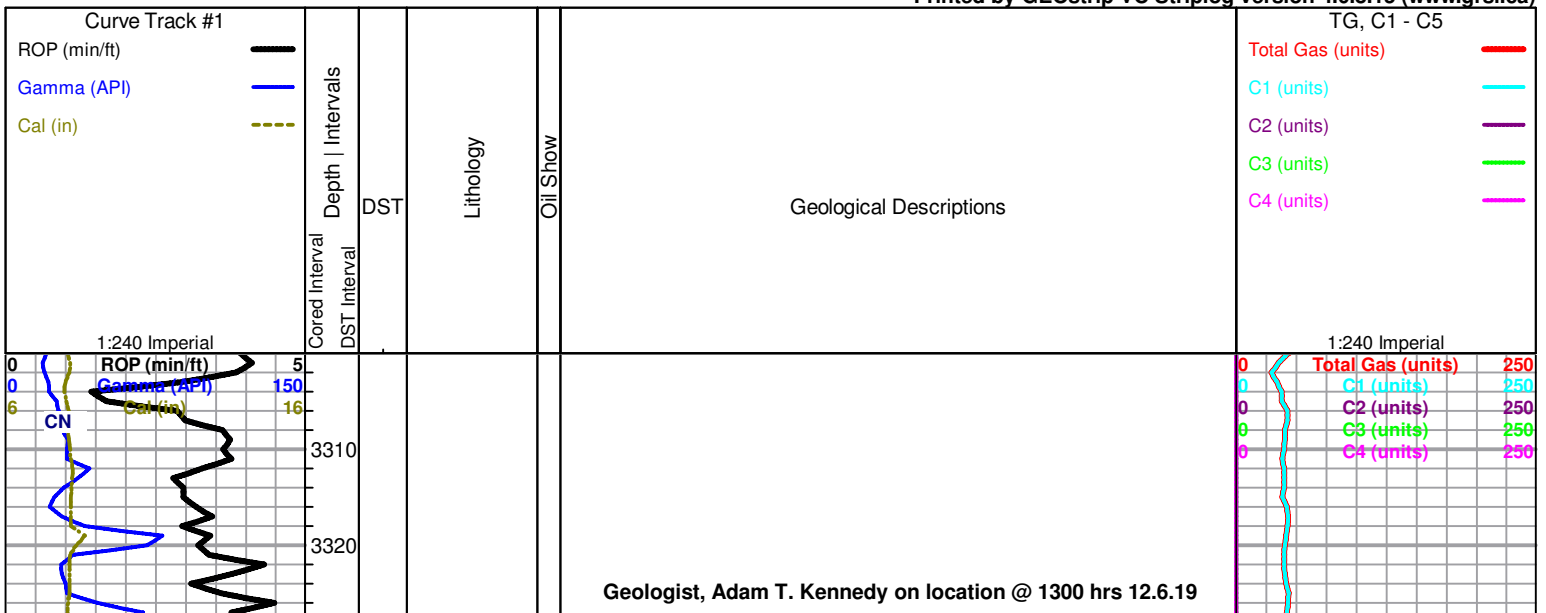
### ACCESSORIES

<b>MINERAL</b>	<b>FOSSIL</b>	<b>TEXTURE</b>
■ Carbonaceous Flakes	F Fossils < 20%	C Chalky
▲ Chert, dark	○ Oolite	
P Pyrite	⊕ Oomoldic	
Mc Mica		

### OTHER SYMBOLS

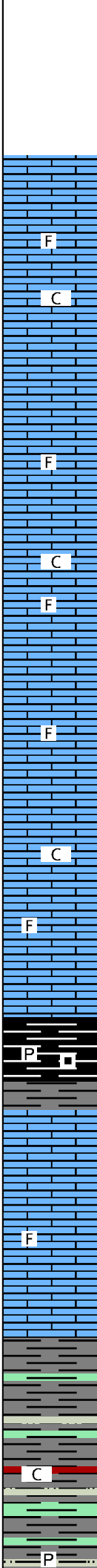
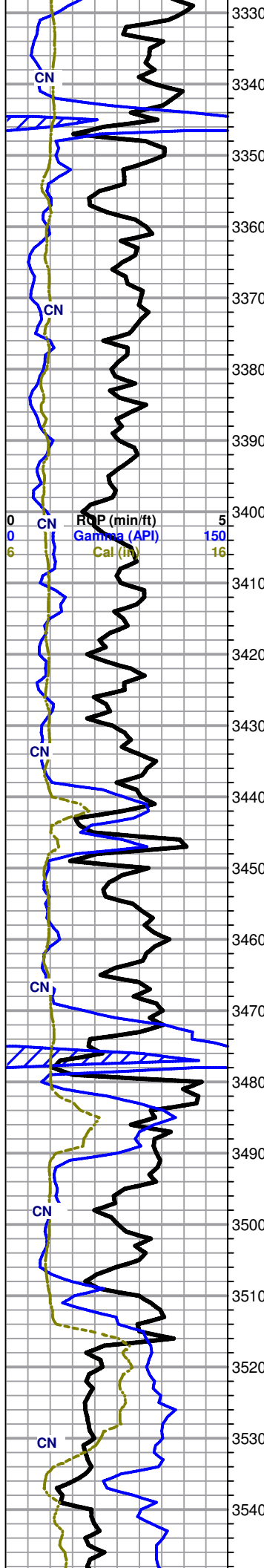
<b>MISC</b>	<b>DST</b>
Daily Report	DST1
Digital Photo	DST2
Document	DST3
Folder	Core
Link	tail pipe
Vertical Log File	
Horizontal Log File	
Core Log File	
Drill Cuttings Rpt	

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



**Start 10' Wet and Dry Samples**

MudCo Mud Check @  
 3342' 09:30 hrs  
 12.06.19  
 Vis: 59      Wt: 9.0  
 pH: 10.0    WL: 8.0  
 Chr: 6100  
 LCM: 1#



Limestone: cream gray light brown, micro xln, fossiliferous, mottled, dense xln matrix, no shows noted, abundant chalk.

Limestone: cream brown trace gray, micro to finexln, fossiliferous, dense xln hard matrix, scattered poor interxln porosity, no shows noted.

Limestone: cream tan brown, microxln, trace fossils, dense xln matrix, mottled, poor visible porosity, abundant chalk.

Limestone: cream tan gray, micro to fine xln, fossiliferous hash, dense hard matrix, scattered chalk, poor visible porosity, no shows noted.

Limestone: cream white gray, micro to finexln, fossiliferous, dense chalky matrix, scattered poor interxln porosity, no shows noted.

**HEEBNER 3472' (-1543)**

Shale: gray black, dense blocky fissile, carbonaceous, trace pyrite.

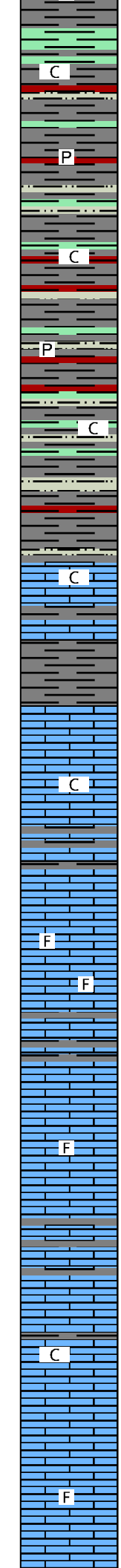
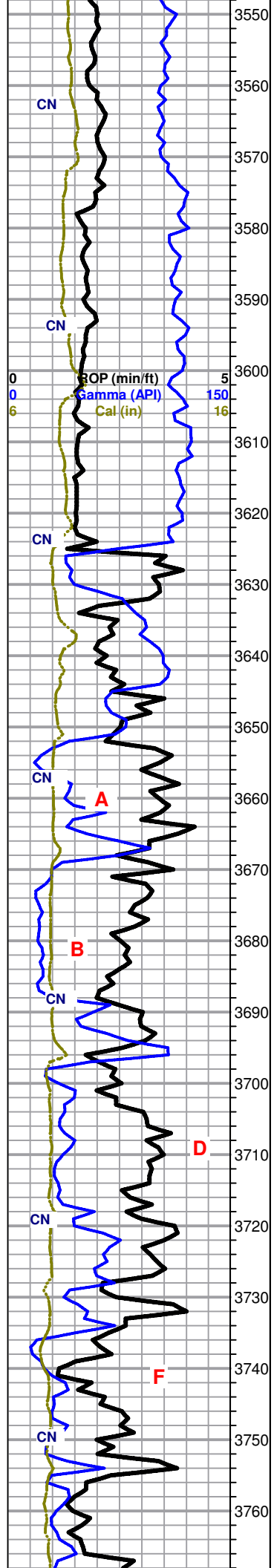
**TORONTO 3492' (-1563)**

Limestone: cream tan light brown, microxln, fossiliferous, dense xln matrix, scattered poor interxln porosity, no shows noted.

**DOUGLAS 3513' (-1584)**

Shale: gray green brick red, blocky fissile waxy, with abundant grey siltstones, samples wash gray, abundant chalk.

0	Total Gas (units)	250
0	H <sub>2</sub> (units)	250
0	O <sub>2</sub> (units)	250
0	C <sub>2</sub> (units)	250
0	C <sub>3</sub> (units)	250
0	C <sub>4</sub> (units)	250



Shale: gray green brick red, blocky fissile, pyritic, increase in gray siltstones as above, chalky.

**BROWN LIME 3625' (-1696)**

Limestone: cream tan brown, microxn, trace fossils, dense chalky xln matrix, poor visible porosity, no shows noted.

**LANSING KANSAS CITY 3652' (-1723)**

Limestone: cream tan, micro to finexln, trace fossils, dense xln matrix, large calcite nodules, poor visible porosity, no shows noted, slightly chalky.

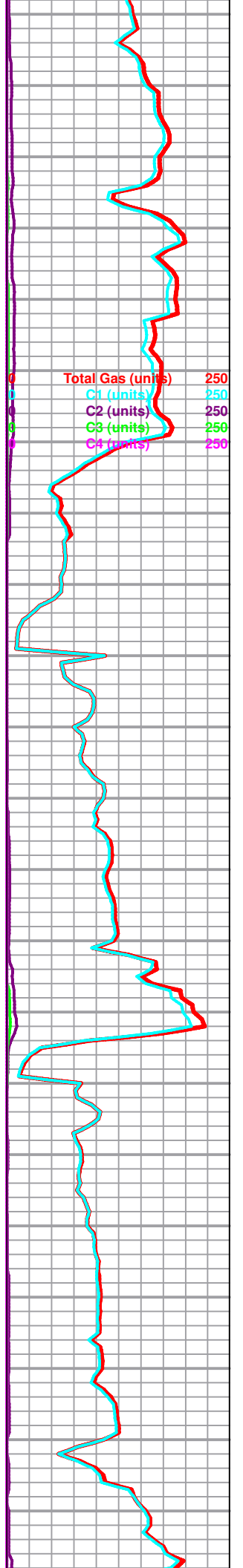
Limestone: cream tan light brown, micro to finexln, abundant fossiliferous hash, scattered poor interxln porosity, no shows noted associated with gas kick.

Limestone: cream tan gray, micro to finexln, fossiliferous fragments, dense chalky matrix, poor visible porosity, no shows noted.

Limestone: white cream tan, micro to finexln, fossiliferous, chalky matrix, scattered poor interxln porosity, no shows or odor noted

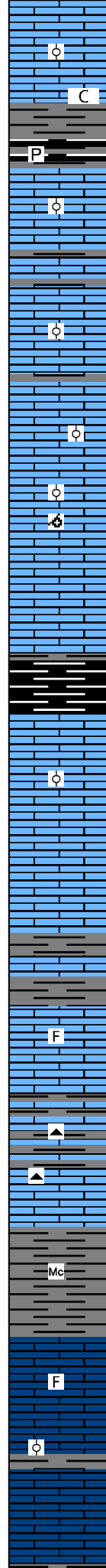
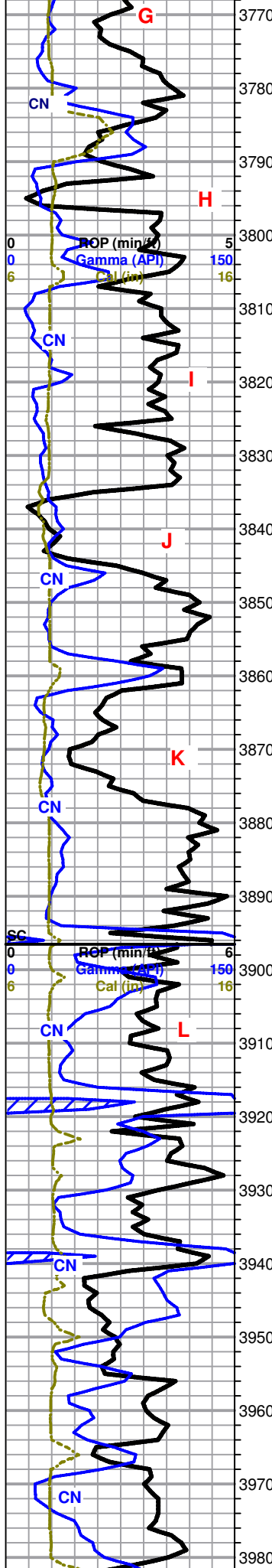
Limestone: cream tan light brown, micro to finexln, mottled, dense sub chalky matrix, poor to fair interxln porosity, no shows or odor noted.

Limestone: white cream tan, microxn, fossiliferous, dense xln matrix, no shows or odor noted.



Total Gas (units) 250  
 C1 (units) 250  
 C2 (units) 250  
 C3 (units) 250  
 C4 (units) 250





Limestone: cream tan brown gray, microxn, oolitic, dense mottled sub chalky matrix, scattered nodules, poor visible porosity, no shows noted.

**Muncie Creek 3784' (-1855)**

Shales: gray dark gray black, scattered carbonaceous, pyritic.

Limestone: cream white tan, micro to finexln, oolitic, sub chalky, scattered good to very good interxn vuggy porosity, no shows or odor noted.

Limestone: white cream tan, micro to finexln, oolitic, dense xln matrix, scattered nodules, poor to fair interxn porosity, no shows or odor noted.

Limestone: white cream, micro to finexln, fossiliferous, oolitic, dense xln fossiliferous matrix, scattered good interxn porosity, no shows or odor noted.

Limestone: white cream, micro to finexln, oolitic, scattered oomoldic matrix, good interxn oomoldic porosity, abundant rexln, no shows or odor noted.

Shales: gray dark gray, green, blocky fissile.

**Stark Shale 3857' (-1928)**

Limestone: cream tan gray, microxn, fossiliferous oolitic, dense lithographic matrix, poor visible porosity, no shows noted.

Limestone: white cream light gray, micro to finexln, mostly barren, dense lithographic matrix, poor visible porosity, no shows noted.

**Hushpuckney 3893' (-1964)**

Limestone: white cream tan, micro to fine xln, fossiliferous, dense xln matrix, scattered poor intxn porosity, no shows or odor noted.

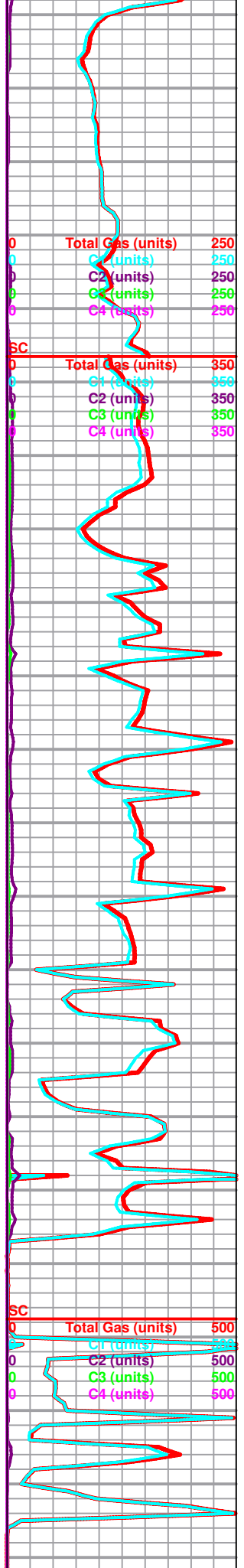
Limestone: white cream, microxn, mostly barren, chert, chalky lithographic matrix, very poor porosity, no shows noted.

**Base Kansas City 3936' (-2007)**

Shales: gray dark gray green, blocky fissile, micaceous, abundant limestones as above.

Limestone: white cream tan, micro to finexln, trace fossils oolitic, dense chert matrix, poor visible porosity, no shows noted.

Limestone: white cream pale green, micro to finexln, mostly barren, dense chalky matrix, cherty, poor visible porosity, no shows noted.

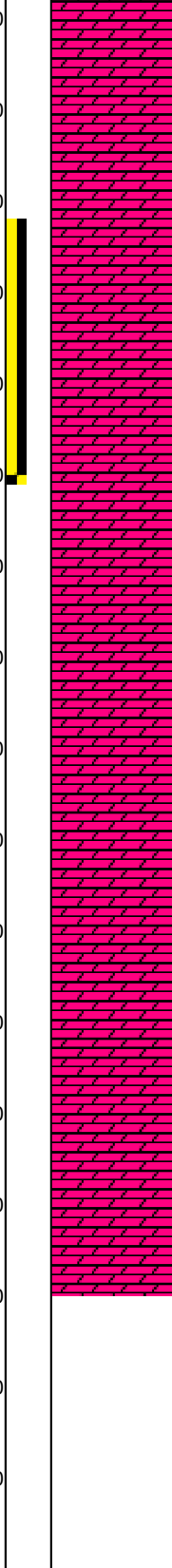
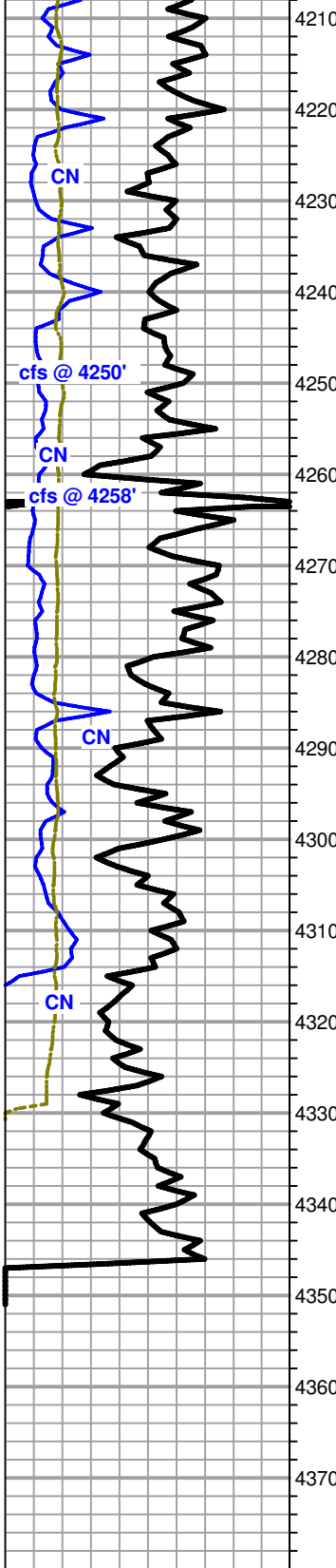


Total Gas (units)	250
C1 (units)	250
C2 (units)	250
C3 (units)	250
C4 (units)	250

Total Gas (units)	350
C1 (units)	350
C2 (units)	350
C3 (units)	350
C4 (units)	350

Total Gas (units)	500
C1 (units)	500
C2 (units)	500
C3 (units)	500
C4 (units)	500





Dolomite: white cream tan, microxn, trace fossils, dense xln matrix, poor rhombic development, abundant limestone: cream tan gray, microxn, dense xln matrix, no shows noted, with shales and sandstones as above.

4250' Dolomite: cream tan gray, micro to fine xln, oolitic, dense xln matrix, poor to fair rhombic development, scattered poor to fair interxn porosity, trace free oil under lamp, faint odor, even green mineral fl.

4258' Dolomite: white cream, micro to finexln, dense xln matrix, fair to good rhombic development, scattered poor to good iterxn porosity, increase in free oil and gas under lamp faint odor, green fluorescence.

\*  
● cfs Dolomite as above with increasing show and free oil/gas. Stronger odor, even green fluorescence.

● Dolomite: white cream light gray, micro to finexln, dense xln matrix, fair rhombic development, scattered good interxn porosity, slight decrease in above show, faint odor, even green fluorescence.

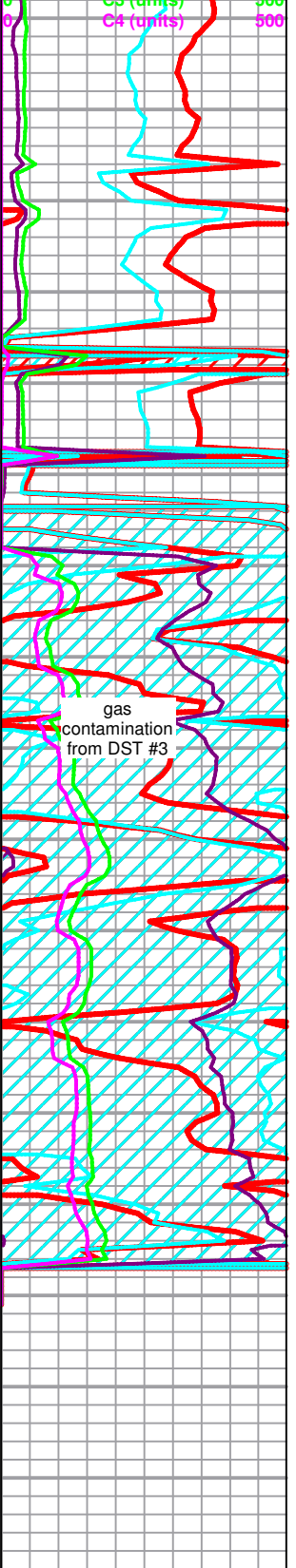
Dolomite: white cream tan, micro to coarse xln, dense xln matrix, increase in rhombic development, scattered good to very good rhombic interxn porosity, sharp decrease in show, even green fluorescence.

Dolomite as above with decreasing show.

Dolomite: white cream, micro to coarse xln, dense xln matrix, good to very good rhombic development, scattered good to very good interxn porosity, no shows or odor noted.

**RTD 4350' (-2421)**

- 📷 DST 1\_Page\_1.jpg
- 📷 DST 1\_Page\_2.jpg
- 📷 DST 2\_Page\_1.jpg
- 📷 DST 2\_page\_2.jpg
- 📷 DST 3\_Page\_1.jpg
- 📷 DST 3\_Page\_2.jpg







**Company: Edison Operating Company, LLC**  
**Lease: Reissig #1-23**

SEC: 23 TWN: 25S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 2  
 Elevation: 1919 GL  
 Field Name: Leiss  
 Pool: Infield  
 Job Number: 427  
 API #: 15-185-24063-00-00

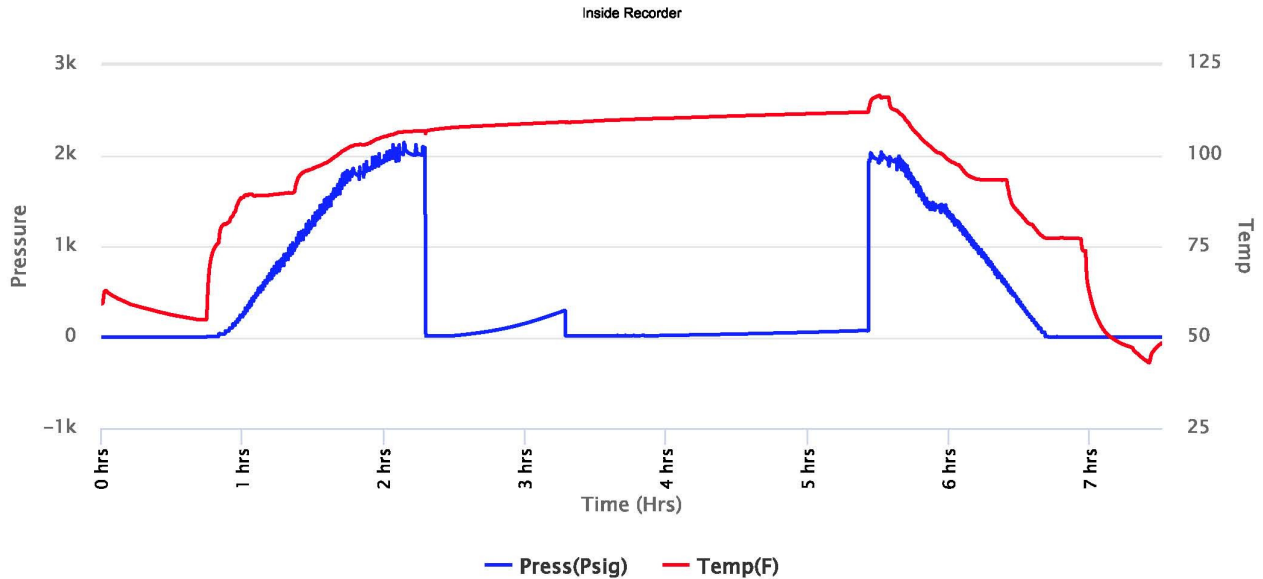
**Operation:**  
 Test Complete

**DATE**  
 December  
**08**  
 2019

**DST #1**      **Formation: Viola**      **Test Interval: 4068 - 4145'**      **Total Depth: 4145'**  
 Time On: 15:10 12/08      Time Off: 22:27 12/08  
 Time On Bottom: 17:23 12/08      Time Off Bottom: 20:18 12/08

Electronic Volume Estimate:  
 3'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 45	Minutes: 30	Minutes: 90
Current Reading: .25" at 10 min	Current Reading: 0" at 45 min	Current Reading: 0" at 30 min	Current Reading: 0" at 90 min
Max Reading: .25"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"





**Company: Edison Operating Company, LLC**  
**Lease: Reissig #1-23**

SEC: 23 TWN: 25S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 2  
 Elevation: 1919 GL  
 Field Name: Leiss  
 Pool: Infield  
 Job Number: 427  
 API #: 15-185-24063-00-00

**Operation:**  
 Test Complete

**DATE**  
 December  
**08**  
 2019

**DST #1**      **Formation: Viola**      **Test Interval: 4068 - 4145'**      **Total Depth: 4145'**  
 Time On: 15:10 12/08      Time Off: 22:27 12/08  
 Time On Bottom: 17:23 12/08      Time Off Bottom: 20:18 12/08

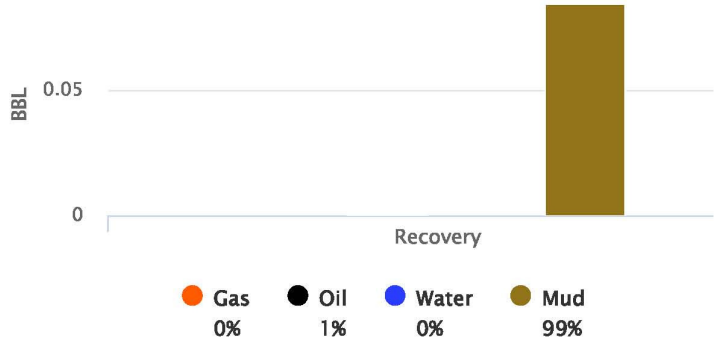
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
6	0.08538	SLOCM	0	1	0	99

Total Recovered: 6 ft  
 Total Barrels Recovered: 0.08538

Reversed Out  
 NO

Initial Hydrostatic Pressure	2000	PSI
Initial Flow	13 to 15	PSI
<b>Initial Closed in Pressure</b>	<b>292</b>	<b>PSI</b>
Final Flow Pressure	16 to 17	PSI
<b>Final Closed in Pressure</b>	<b>71</b>	<b>PSI</b>
Final Hydrostatic Pressure	2002	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	75.8	%

**Recovery at a glance**



GIP cubic foot volume: 0



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**Lease: Reissig #1-23**

SEC: 23 TWN: 25S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 2  
 Elevation: 1919 GL  
 Field Name: Leiss  
 Pool: Infield  
 Job Number: 427  
 API #: 15-185-24063-00-00

**Operation:**  
 Test Complete

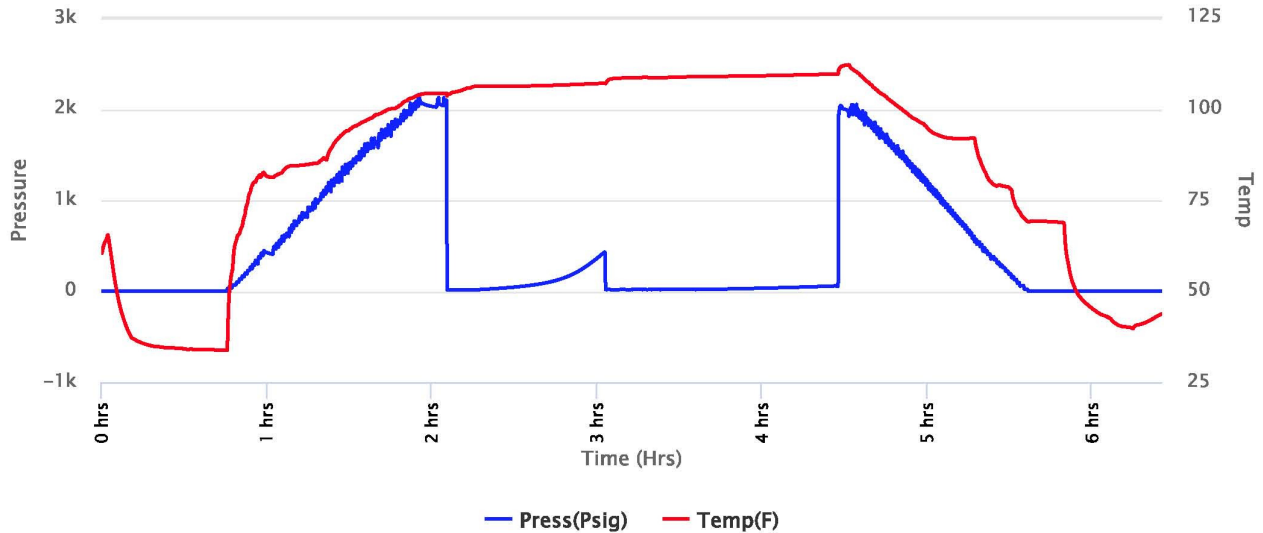
**DATE**  
 December  
**09**  
 2019

**DST #2**      **Formation: Simpson Sand**      **Test Interval: 4158 - 4199'**      **Total Depth: 4199'**  
 Time On: 09:23 12/09      Time Off: 15:36 12/09  
 Time On Bottom: 11:26 12/09      Time Off Bottom: 14:36 12/09

Electronic Volume Estimate:  
 10'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 45	Minutes: 30	Minutes: 45
Current Reading: .8" at 10 min	Current Reading: 0" at 45 min	Current Reading: 0" at 30 min	Current Reading: 0" at 45 min
Max Reading: .8"	Max Reading: 0"	Max Reading: .1"	Max Reading: 0"

Inside Recorder





**Company: Edison Operating Company, LLC**  
**Lease: Reissig #1-23**

SEC: 23 TWN: 25S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 2  
 Elevation: 1919 GL  
 Field Name: Leiss  
 Pool: Infield  
 Job Number: 427  
 API #: 15-185-24063-00-00

**Operation:**  
 Test Complete

**DATE**  
 December  
**09**  
 2019

**DST #2**      **Formation: Simpson Sand**      **Test Interval: 4158 - 4199'**      **Total Depth: 4199'**  
 Time On: 09:23 12/09      Time Off: 15:36 12/09  
 Time On Bottom: 11:26 12/09      Time Off Bottom: 14:36 12/09

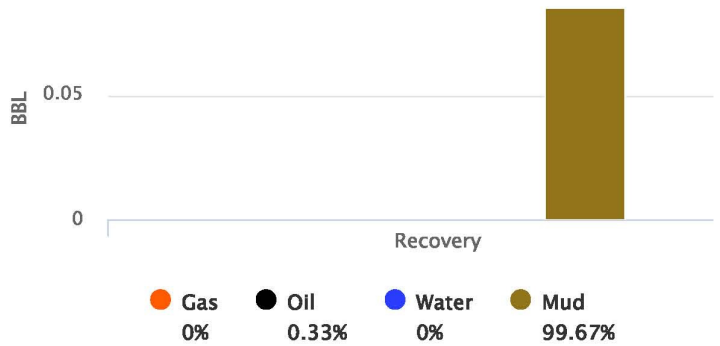
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLS</u>					
5	0.07115	M	0	0	0	100
1	0.01423	SLOCM	0	2	0	98

Total Recovered: 6 ft  
 Total Barrels Recovered: 0.08538

Reversed Out  
 NO

Initial Hydrostatic Pressure	2023	PSI
Initial Flow	13 to 16	PSI
<b>Initial Closed in Pressure</b>	<b>430</b>	<b>PSI</b>
Final Flow Pressure	17 to 19	PSI
<b>Final Closed in Pressure</b>	<b>58</b>	<b>PSI</b>
Final Hydrostatic Pressure	2002	PSI
Temperature	110	°F
Pressure Change Initial Close / Final Close	86.7	%

**Recovery at a glance**



GIP cubic foot volume: 0



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 State: Kansas  
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 Elevation: 1919 GL  
 Field Name: Leiss  
 Pool: Infield  
 Job Number: 427  
 API #: 15-185-24063-00-00

**Operation:**  
 Uploading recovery & pressures

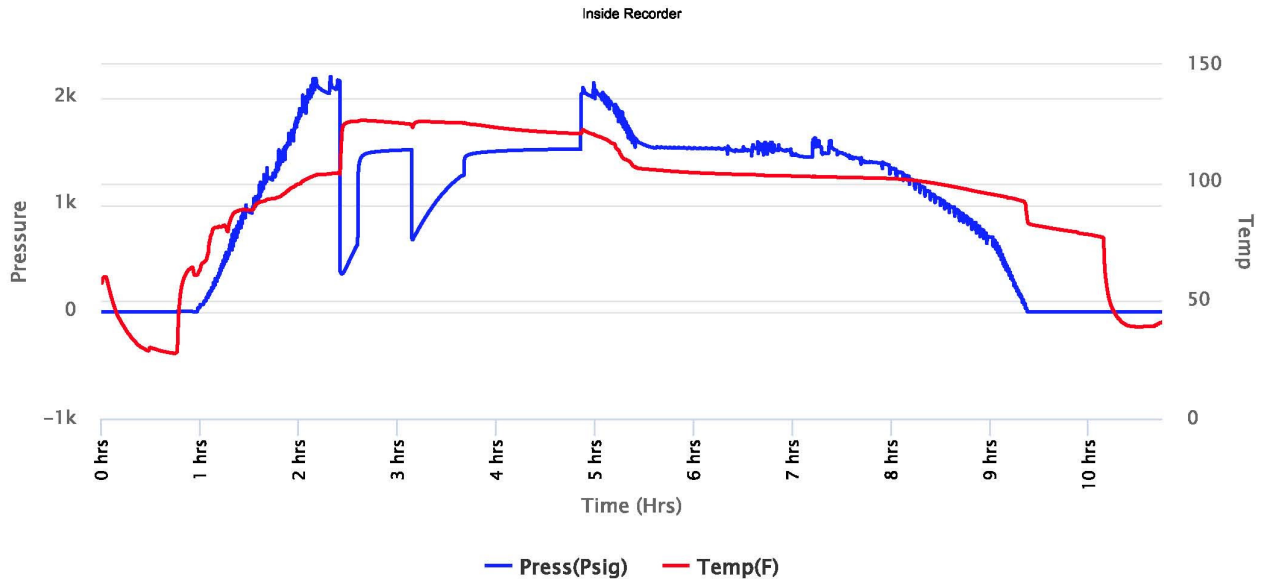
**DATE**  
 December  
**10**  
 2019

**DST #3**    **Formation: Arbuckle**    **Test Interval: 4233 - 4258'**    **Total Depth: 4258'**  
 Time On: 01:56 12/10    Time Off: 12:22 12/10  
 Time On Bottom: 04:17 12/10    Time Off Bottom: 06:27 12/10



Electronic Volume Estimate:  
 N/A

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: 165" at 10 min	Current Reading: 13.7" at 30 min	Current Reading: 354" at 30 min	Current Reading: 3.4" at 30 min
Max Reading: 165"	Max Reading: 13.7"	Max Reading: 354"	Max Reading: 3.4"







**Company: Edison Operating Company, LLC**  
**Lease: Reissig #1-23**

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 County: STAFFORD  
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 Elevation: 1919 GL  
 Field Name: Leiss  
 Pool: Infield  
 Job Number: 427  
 API #: 15-185-24063-00-00

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 December  
**10**  
 2019

**DST #3**    **Formation: Arbuckle**    **Test Interval: 4233 - 4258'**    **Total Depth: 4258'**  
 Time On: 01:56 12/10    Time Off: 12:22 12/10  
 Time On Bottom: 04:17 12/10    Time Off Bottom: 06:27 12/10



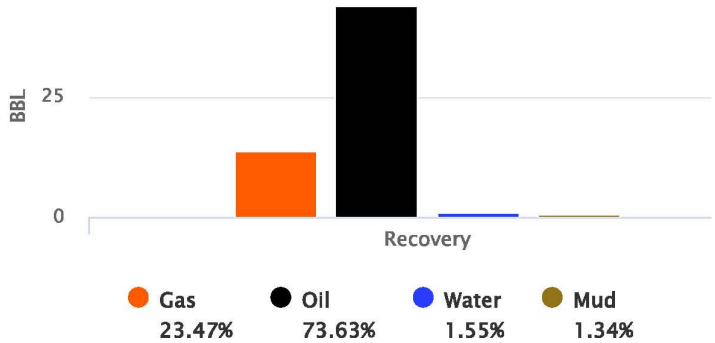
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
990	14.0877	G	100	0	0	0
3102	44.14146	O	0	100	0	0
126	1.79298	SLOCHMCW	0	3	52	45

Total Recovered: 4218 ft  
 Total Barrels Recovered: 60.02214

Reversed Out  
 YES

Initial Hydrostatic Pressure	2039	PSI
Initial Flow	352 to 623	PSI
<b>Initial Closed in Pressure</b>	<b>1512</b>	<b>PSI</b>
Final Flow Pressure	670 to 1274	PSI
<b>Final Closed in Pressure</b>	<b>1516</b>	<b>PSI</b>
Final Hydrostatic Pressure	2041	PSI
Temperature	127	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 79.09539