



Company: Fossil Resources, LLC
Lease: Nelson #3

SEC: 33 TWN: 12S RNG: 36W
 County: LOGAN
 State: Kansas
 Drilling Contractor: Discovery Drilling Company, Inc. - Rig 1
 Elevation: 3104 GL
 Field Name: Noslen
 Pool: Infield
 Job Number: 115

DATE
 February
17
 2018

DST #1 **Formation: Topeka** **Test Interval: 3604 - 3625'** **Total Depth: 3625'**

Time On: 13:20 02/17 Time Off: 21:23 02/17
 Time On Bottom: 15:46 02/17 Time Off Bottom: 19:16 02/17

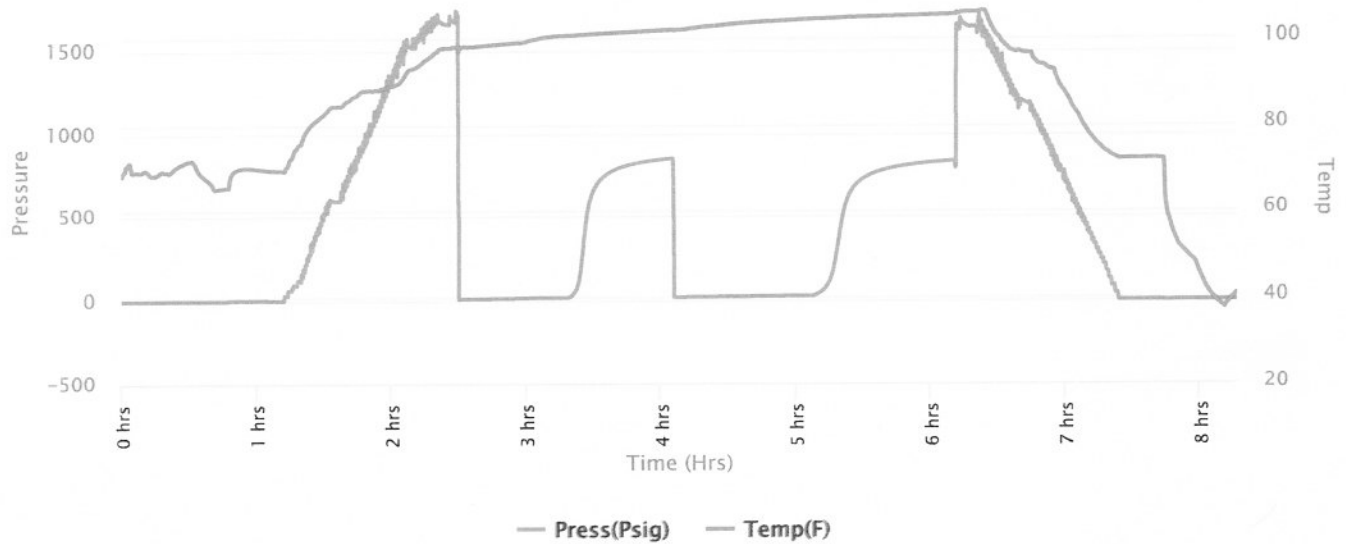
Electronic Volume Estimate:
 49'

1st Open
 Minutes: 45
 1.8" at 45 min

1st Close
 Minutes: 45
 .1" at 45 min

2nd Open
 Minutes: 60
 .8" at 60 min

2nd Close
 Minutes: 60
 0" at 60 min





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DST #1 **Formation: Topeka** **Test Interval: 3604 - 3625'** **Total Depth: 3625'**

Time On: 13:20 02/17 Time Off: 21:23 02/17
 Time On Bottom: 15:46 02/17 Time Off Bottom: 19:16 02/17

Recovered

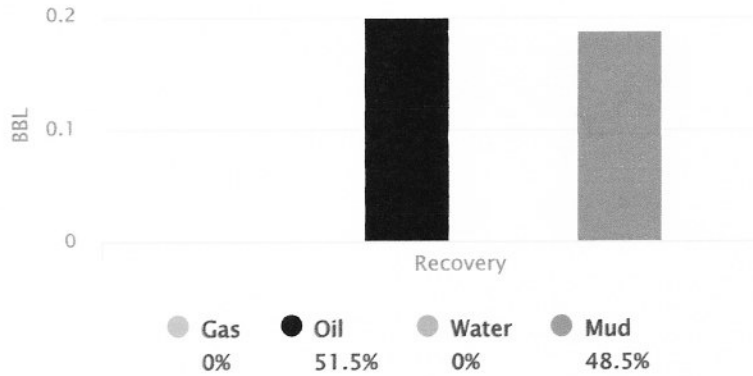
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
26	0.19292	SLOCM	0	3	0	97
26	0.19292	O	0	100	0	0

Total Recovered: 52 ft
 Total Barrels Recovered: 0.38584

Reversed Out
 NO

Initial Hydrostatic Pressure	1668	PSI
Initial Flow	9 to 18	PSI
Initial Closed in Pressure	854	PSI
Final Flow Pressure	20 to 30	PSI
Final Closed in Pressure	838	PSI
Final Hydrostatic Pressure	1653	PSI
Temperature	106	°F
Pressure Change Initial Close / Final Close	1.8	%

Recovery at a glance





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DST #1	Formation: Topeka	Test Interval: 3604 - 3625'	Total Depth: 3625'
	Time On: 13:20 02/17	Time Off: 21:23 02/17	
	Time On Bottom: 15:46 02/17	Time Off Bottom: 19:16 02/17	

REMARKS:

- 1O. WSB. Built to 1 3/4 inch in 45 mins
- 1O. Weak Blow Back
- 2O. WSB. Built to 3/4 inch
- 2C. NO Blow Back

Tool Sample: 100 % O

Electric Gas Detector didn't detect gas

Gravity: 34 @ 60 degrees F



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DST #2 **Formation:** **Test Interval: 3604 - 3900'** **Total Depth: 3900'**
 Topkea/plattsmouth/oread

Time On: 16:10 02/18 Time Off: 23:58 02/18
 Time On Bottom: 18:33 02/18 Time Off Bottom: 20:33 02/18

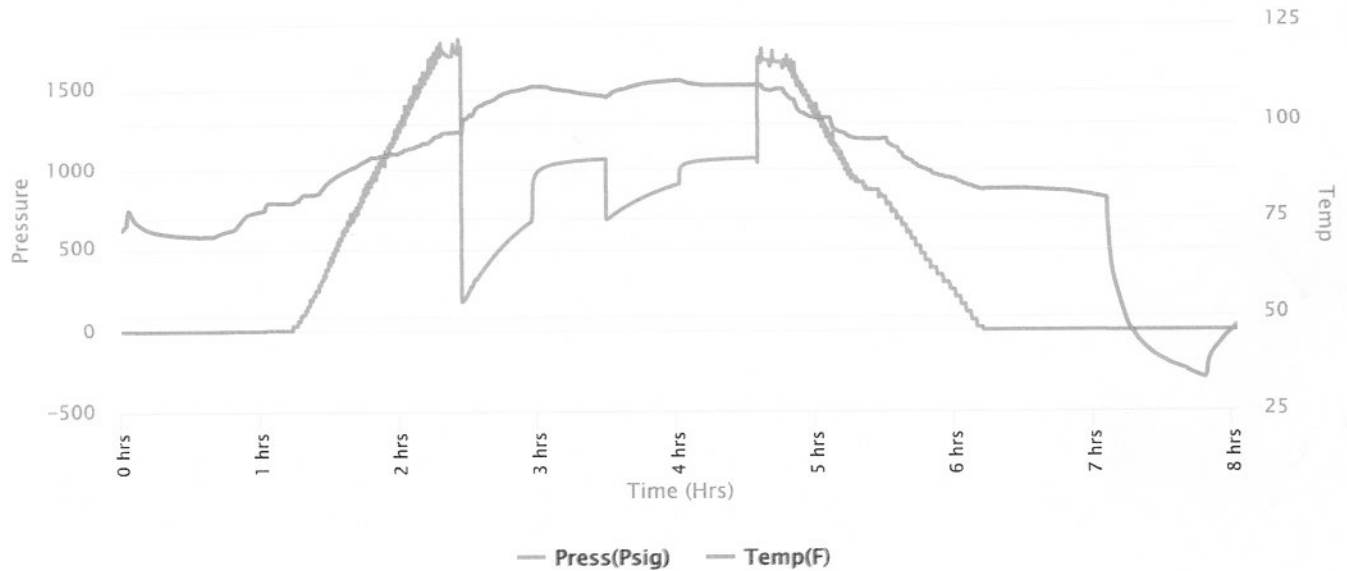
Electronic Volume Estimate:
 2402'

1st Open
 Minutes: 30
 193.8" at 30 min

1st Close
 Minutes: 30
 0" at 30 min

2nd Open
 Minutes: 30
 100.5" at 30 min

2nd Close
 Minutes: 30
 0" at 30 min





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DST #2 **Formation:** **Test Interval: 3604 - 3900'** **Total Depth: 3900'**
 Topkea/plattsmouth/oread
 Time On: 16:10 02/18 Time Off: 23:58 02/18
 Time On Bottom: 18:33 02/18 Time Off Bottom: 20:33 02/18

Recovered

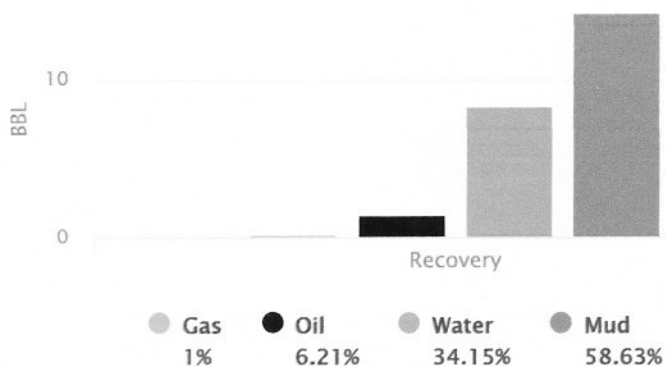
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
441	5.4288789	M	0	0	0	100
252	2.7394089	SLWCSLOCM	0	2	2	96
630	8.1183489	SLGCSLWCSLOCM	3	15	15	67
630	8.1183489	SLOCSLMCW	0	3	87	10

Total Recovered: 1953 ft

Total Barrels Recovered: 24.4049856

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1699	PSI
Initial Flow	180 to 674	PSI
Initial Closed in Pressure	1063	PSI
Final Flow Pressure	687 to 907	PSI
Final Closed in Pressure	1069	PSI
Final Hydrostatic Pressure	1692	PSI
Temperature	111	°F
Pressure Change Initial Close / Final Close	0.0	%



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DST #2	Formation: Topkea/plattsmouth/oread	Test Interval: 3604 - 3900'	Total Depth: 3900'
	Time On: 16:10 02/18	Time Off: 23:58 02/18	
	Time On Bottom: 18:33 02/18	Time Off Bottom: 20:33 02/18	

REMARKS:

- 1O. 3/4" Blow. BOB in 1 min
- 1C. NOBB
- 2O. 3 1/2" Blow. BOB in 2 mins
- 2C. NOBB

Tool Sample: 25 % O 70% W 5% M

Ph: 7

RW: 1.2 @ 30 degrees F

Chlorides: 25,000 ppm



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19
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DST #3 **Formation: LKC** **Test Interval: 3904 - 3954'** **Total Depth: 3954'**
 Time On: 09:20 02/19 Time Off: 18:39 02/19
 Time On Bottom: 11:34 02/19 Time Off Bottom: 13:34 02/19

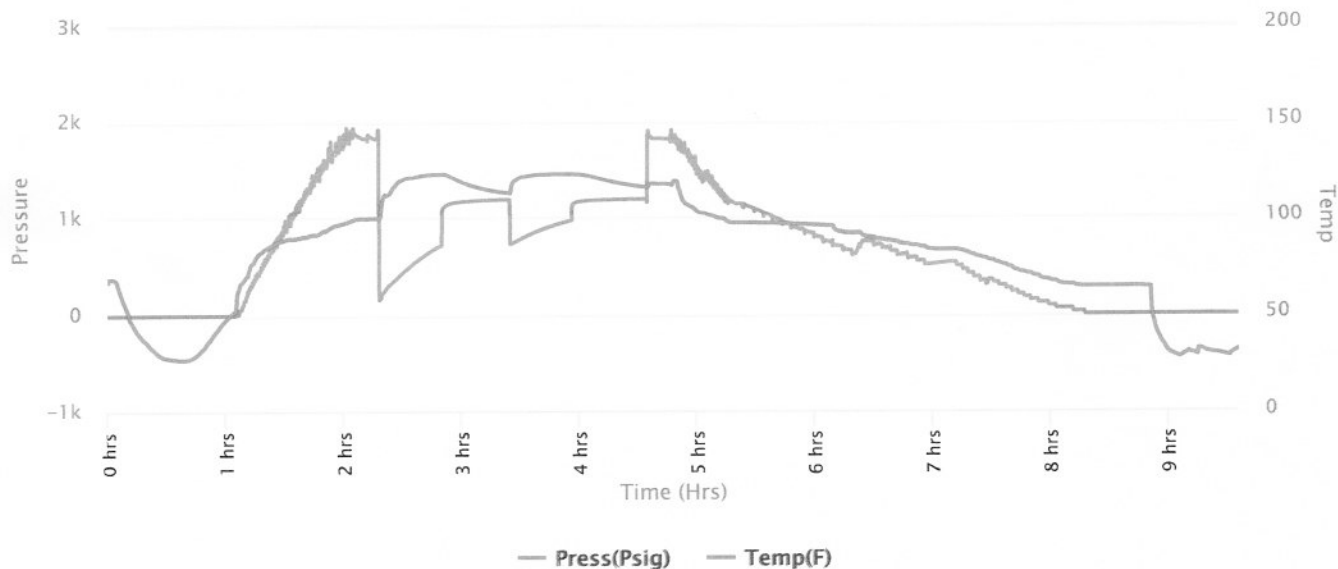
Electronic Volume Estimate:
 3148'

1st Open
 Minutes: 30
 242.3" at 30 min

1st Close
 Minutes: 30
 0" at 30 min

2nd Open
 Minutes: 30
 142.1" at 30 min

2nd Close
 Minutes: 30
 .7" at 30 min





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DST #3 **Formation: LKC** **Test Interval: 3904 - 3954'** **Total Depth: 3954'**
 Time On: 09:20 02/19 Time Off: 18:39 02/19
 Time On Bottom: 11:34 02/19 Time Off Bottom: 13:34 02/19

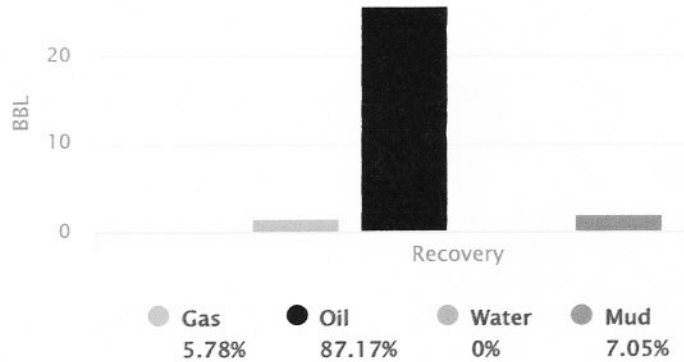
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
32	0.23744	G	100	0	0	0
320	2.435009	GCHOCM	20	30	0	50
1854	24.263829	O	0	100	0	0
320	2.435009	OCHMCG	40	25	0	35

Total Recovered: 2526 ft
 Total Barrels Recovered: 29.371287

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1827	PSI
Initial Flow	154 to 716	PSI
Initial Closed in Pressure	1186	PSI
Final Flow Pressure	735 to 967	PSI
Final Closed in Pressure	1189	PSI
Final Hydrostatic Pressure	1825	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	0.0	%



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DST #3 Formation: LKC Test Interval: 3904 - 3954' Total Depth: 3954'

Time On: 09:20 02/19 Time Off: 18:39 02/19
Time On Bottom: 11:34 02/19 Time Off Bottom: 13:34 02/19

REMARKS:

- 1O. 1 inch Blow. (BOB in 1 1/4 min)
- 1C. NOBB
- 2O. 2 inch Blow. (BOB in 1 1/2 mins)
- 2C. 3/4 BB

Tool Sample: 10% O 30% G 60 % M

Gravity: 27 @ 60 degrees F



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DST #4 **Formation: LKC** **Test Interval: 3954 - 3990'** **Total Depth: 3990'**

Time On: 03:42 02/20 Time Off: 14:50 02/20
 Time On Bottom: 06:50 02/20 Time Off Bottom: 08:50 02/20

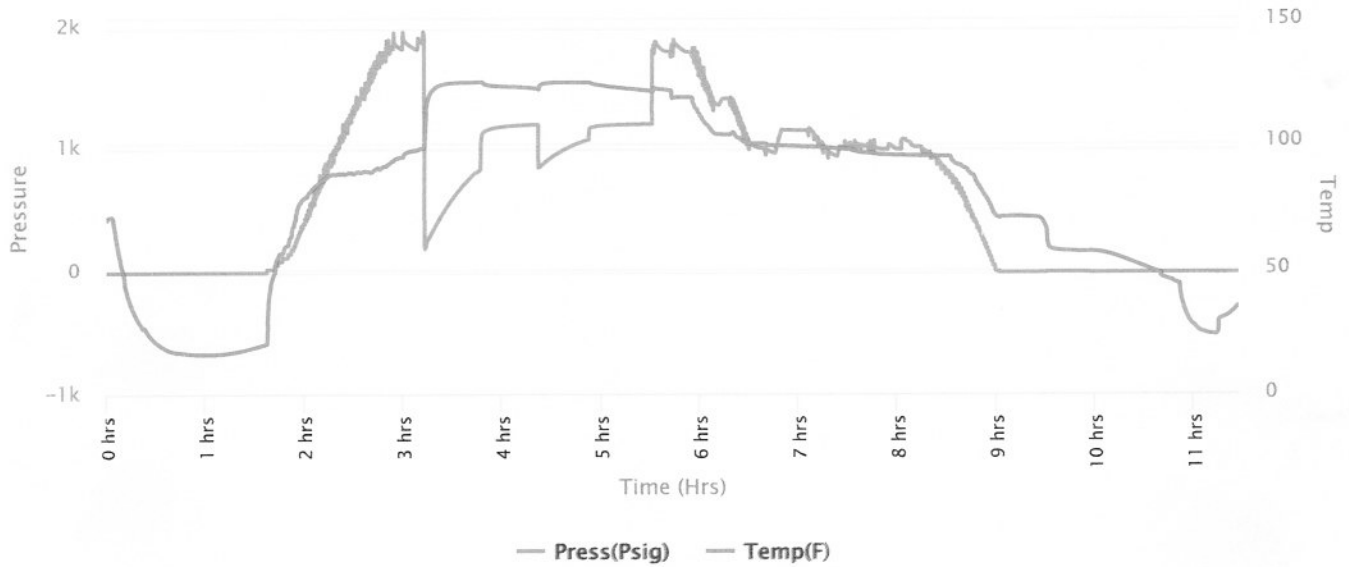
Electronic Volume Estimate:
 3334'

1st Open
 Minutes: 30
 279.5" at 30 min

1st Close
 Minutes: 30
 0" at 30 min

2nd Open
 Minutes: 30
 111" at 30 min

2nd Close
 Minutes: 30
 .1" at 30 min





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DST #4 **Formation: LKC** **Test Interval: 3954 - 3990'** **Total Depth: 3990'**
 Time On: 03:42 02/20 Time Off: 14:50 02/20
 Time On Bottom: 06:50 02/20 Time Off Bottom: 08:50 02/20

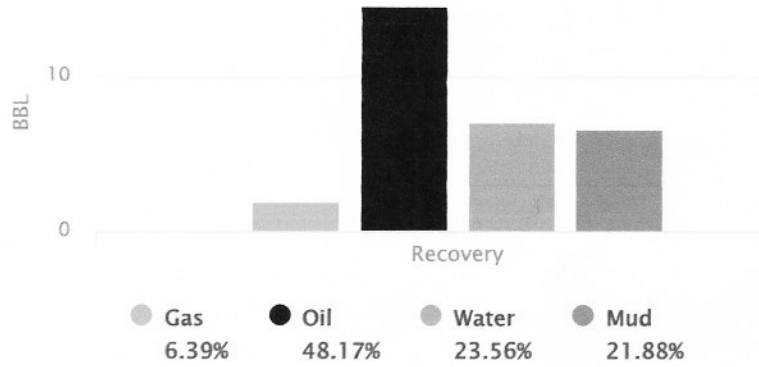
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
267	1.98114	O	0	100	0	0
2079	27.465579	SLGCWCMCO	7	46	23	24
126	0.93492	SLGCSLOCSLMCW	2	2	90	6

Total Recovered: 2472 ft
 Total Barrels Recovered: 30.381639

Reversed Out
 YES

Recovery at a glance



Initial Hydrostatic Pressure	1828	PSI
Initial Flow	207 to 840	PSI
Initial Closed in Pressure	1200	PSI
Final Flow Pressure	868 to 1073	PSI
Final Closed in Pressure	1204	PSI
Final Hydrostatic Pressure	1831	PSI
Temperature	125	°F
Pressure Change Initial Close / Final Close	0.0	%



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DST #4 Formation: LKC Test Interval: 3954 - Total Depth: 3990'
3990'

Time On: 03:42 02/20 Time Off: 14:50 02/20
Time On Bottom: 06:50 02/20 Time Off Bottom: 08:50 02/20

REMARKS:

10. 1 inch Blow. BOB in 1 min
1C. NOBB
20. 1 inch Blow. BOB in 2 1/2 min
2C. Weak Blow Back

Tool Sample: 1% O 93% W 6 % M

Gravity: 27 @ 60 degrees F

Ph: 7

RW: .75 @ 22 degrees F

Chlorides: 26000 ppm