



Company: Ritchie Exploration, Inc.

Lease: Eaton Enterprises #1

SEC: 30 TWN: 16S RNG: 31W
County: SCOTT
State: Kansas
Drilling Contractor: Murfin Drilling Company, Inc - Rig 21
Elevation: 2956 GL
Field Name: Michigan West
Pool: Infield
Job Number: 183

DATE
July
06
2018

DST #4 **Formation: Lansing I** **Test Interval: 4186 - 4210'** **Total Depth: 4210'**

Time On: 14:36 07/06 Time Off: 22:45 07/06
Time On Bottom: 17:05 07/06 Time Off Bottom: 20:05 07/06

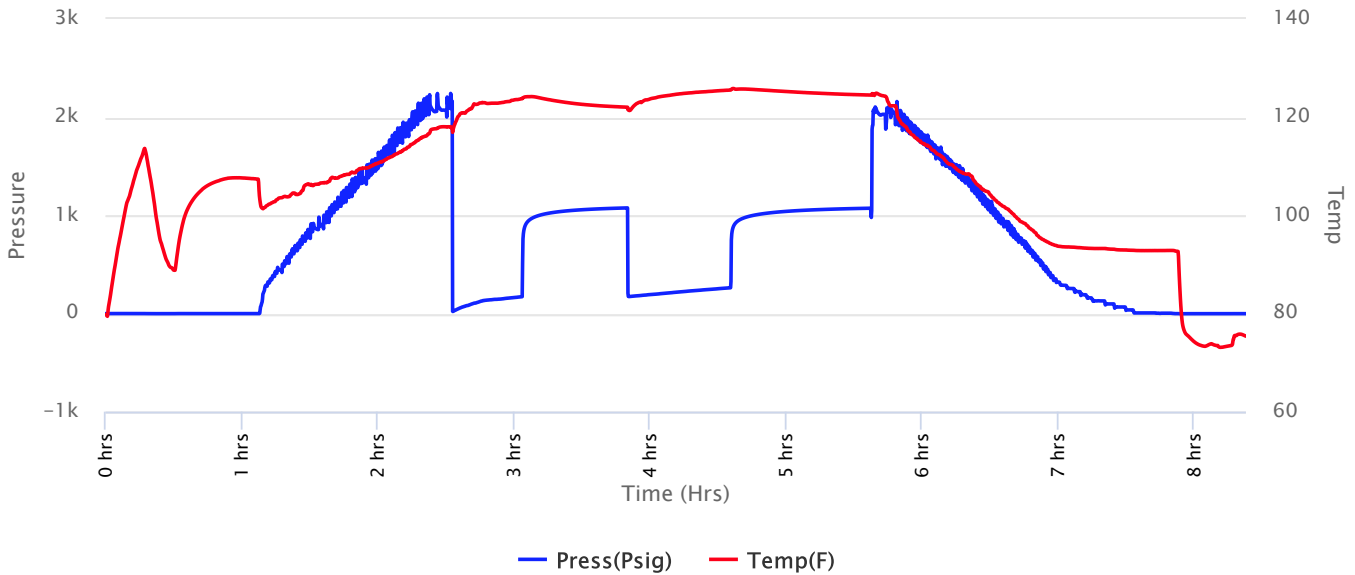
Electronic Volume Estimate:
702'

1st Open
Minutes: 30
22.1" at 30 min

1st Close
Minutes: 45
1" at 45 min

2nd Open
Minutes: 45
26.1" at 45 min

2nd Close
Minutes: 60
.25" at 60 min





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Recovered

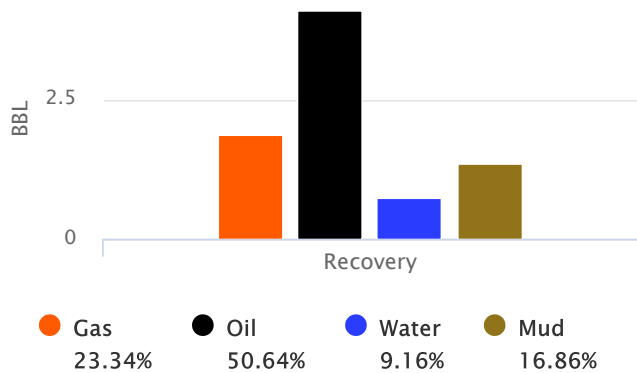
Foot	BBS	Description of Fluid	Gas %	Oil %	Water %	Mud %
75	1.06725	G	100	0	0	0
234	3.32982	O	0	100	0	0
63	0.89649	WCOCMCG	35	20	20	25
189	1.8872273	SLOCWCGCM	25	10	20	45
126	0.61992	SLGCWCHMCO	5	40	20	35
63	0.30996	SLGCWCMCO	3	52	20	25

Total Recovered: 750 ft
 Total Barrels Recovered: 8.1106673

Reversed Out
 NO

Initial Hydrostatic Pressure	2094	PSI
Initial Flow	22 to 171	PSI
Initial Closed in Pressure	1076	PSI
Final Flow Pressure	173 to 262	PSI
Final Closed in Pressure	1073	PSI
Final Hydrostatic Pressure	2091	PSI
Temperature	126	°F
Pressure Change Initial Close / Final Close	0.3	%

Recovery at a glance





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REMARKS:

If: 1/2" bob in 15 min

Ic: built to 1"

Ff: wsb bob in 18 1/2 min

Fc: built to 1/4

Toolsample: 50o - 25w - 25m

Gravity: 22.5 @ 60 degrees F

Ph: 7

RW: .3 @ 82 degrees F

Chlorides: 19000 ppm



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Down Hole Makeup

Heads Up: 20.18 FT	Packer 1: 4181 FT
Drill Pipe: 3898.44 FT <i>ID-3 1/2</i>	Packer 2: 4186 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4170.42 FT
Collars: 275.17 FT <i>ID-2 1/4</i>	Bottom Recorder: 4188 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 24	Surface Choke: 1"
	Bottom Choke: 5/8"

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/2

Change Over: FT

Perforations: (below): 23 FT
4 1/2-FH



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Mud Properties

Mud Type: Chemical

Weight: 9.4

Viscosity: 59

Filtrate: 8.8

Chlorides: 5000 ppm