



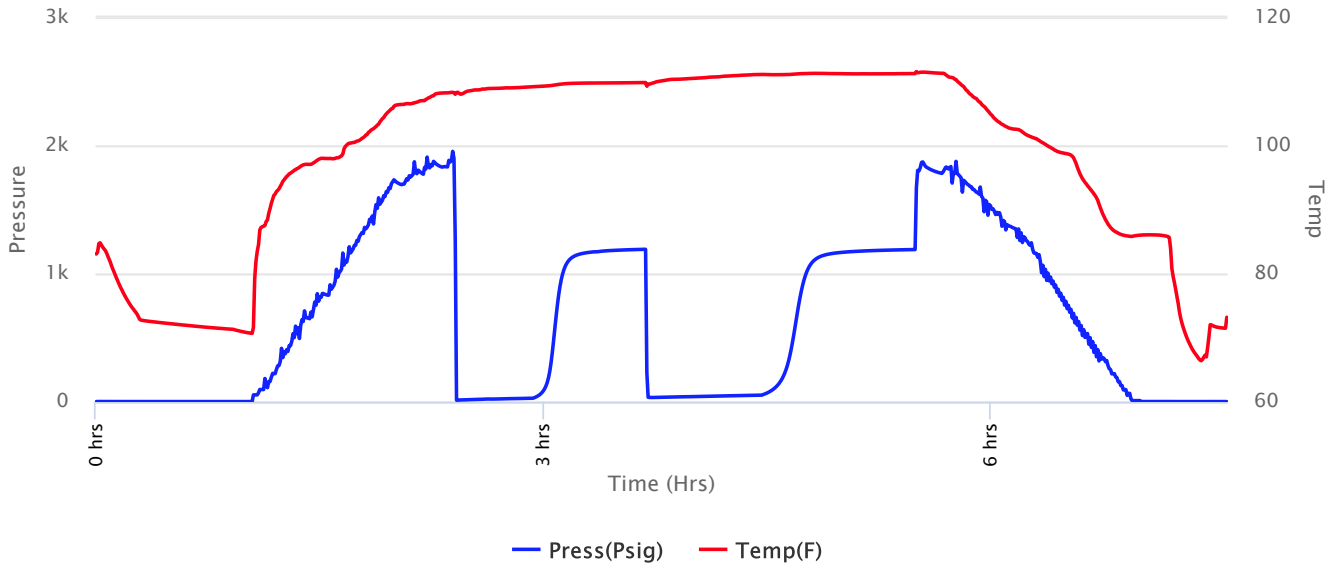
**Company: Ritchie Exploration
Inc
Lease: Seymour-Morrill #1**

SEC: 2 TWN: 22S RNG: 18W
County: PAWNEE
State: Kansas
Drilling Contractor: Sterling Drilling
Company - Rig #5
Elevation: 2043 EGL
Field Name: EDDY NW
Pool: Infield
Job Number: 55

DATE
September
11
2017

DST #2 **Formation: Cherokee** **Test Interval: 4060 - 4092'** **Total Depth: 4092'**
Time On: 02:55 09/11 Time Off: 10:16 09/11
Time On Bottom: 05:04 09/11 Time Off Bottom: 08:06 09/11

| | | | | |
|------------------------------------|--|---|--|--|
| Electronic Volume Estimate: N/A | <u>1st Open</u> Minutes: 30 Gauging Gas" at 30 min | <u>1st Close</u> Minutes: 45 0" at 45 min | <u>2nd Open</u> Minutes: 45 Gauging Gas" at 45 min | <u>2nd Close</u> Minutes: 62 .7" at 62 min |
|------------------------------------|--|---|--|--|





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Recovered

| Foot | BBLs |
|------|-------------|
| 3885 | 39.52572925 |
| 145 | 0.7946 |

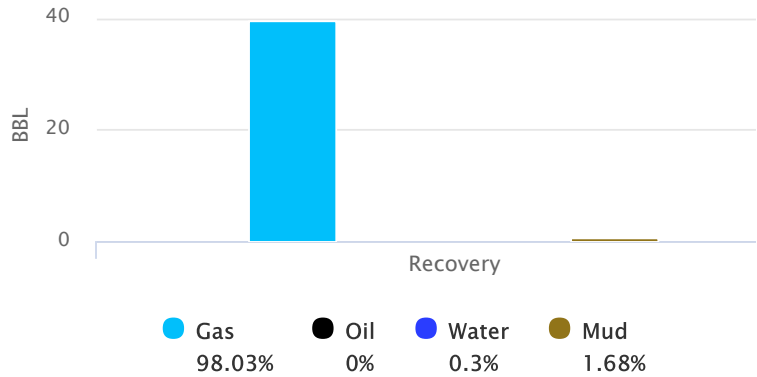
| Description of Fluid | Gas % | Oil % | Water % | Mud % |
|----------------------|-------|-------|---------|-------|
| G | 100 | 0 | 0 | 0 |
| SLWCM | 0 | 0 | 15 | 85 |

Total Recovered: 4030 ft
 Total Barrels Recovered: 40.32032925

Reversed Out
 NO

| | | |
|---|-------------|------------|
| Initial Hydrostatic Pressure | 1832 | PSI |
| Initial Flow | 12 to 28 | PSI |
| Initial Closed in Pressure | 1190 | PSI |
| Final Flow Pressure | 33 to 52 | PSI |
| Final Closed in Pressure | 1188 | PSI |
| Final Hydrostatic Pressure | 1830 | PSI |
| Temperature | 112 | °F |
| Pressure Change Initial Close / Final Close | 0.2 | % |

Recovery at a glance





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REMARKS:

IF: BOB 5 sec GTS 12 min
ISI: No BB
FF: BOB inst. GTS inst.
FSI: 1/2 inch BB

Rig was working on DW motor so was a little late coming out.

TOOL SAMPLE: BLEW OUT

Ph: 6.0

RW: .18 @ 69 degrees F

Chlorides: 42,000 ppm



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Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 11.7 FT | Packer 1: 4055 FT |
| Drill Pipe: 3823.38 FT <i>ID-3 1/4</i> | Packer 2: 4060 FT |
| Weight Pipe: 0 FT <i>ID-2 7/8</i> | Top Recorder: 4044.42 FT |
| Collars: 215.75 FT <i>ID-2 3/8</i> | Bottom Recorder: 4062 FT |
| Test Tool: 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i> | Well Bore Size: 7.875 |
| Total Anchor: 32 | Surface Choke: 1" |
| <u>Anchor Makeup</u> | Bottom Choke: 5/8" |
| Packer Sub: 1 FT | |
| Perforations: (top): 0 FT <i>4 1/2-FH</i> | |
| Change Over: 0 FT | |
| Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i> | |
| Change Over: 0 FT | |
| Perforations: (below): 31 FT <i>4 1/2-FH</i> | |



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Mud Properties

| | | | | |
|---------------------------|--------------------|----------------------|----------------------|-----------------------------|
| Mud Type: Chemical | Weight: 9.3 | Viscosity: 53 | Filtrate: 8.8 | Chlorides: 4,500 ppm |
|---------------------------|--------------------|----------------------|----------------------|-----------------------------|



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Gas Volume Report

Remarks: GTS 12 min Initial Flow Took gas sample 30 min into FF

1st Open

| Time | Orifice | PSI | MCF/D |
|------|---------|---------------------|-------|
| 15 | 0.25 | Too weak to measure | Weak |
| 20 | 0.25 | Too weak to measure | Weak |
| 25 | 0.25 | Too weak to measure | Weak |
| 30 | 0.25 | Too weak to measure | Weak |

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|---------------------|-------|
| 5 | 0.25 | Too weak to measure | Weak |
| 10 | 0.25 | Too weak to measure | Weak |
| 15 | 0.25 | Too weak to measure | Weak |
| 20 | 0.25 | Too weak to measure | Weak |
| 25 | 0.25 | Too weak to measure | Weak |
| 30 | 0.25 | Too weak to measure | Weak |
| 35 | 0.25 | Too weak to measure | Weak |
| 40 | 0.25 | Too weak to measure | Weak |
| 45 | 0.25 | Too weak to measure | Weak |

MCF/D

