

Company: Richlan Drilling Lease: Mike #1

State: Kansas

County: RICE

Drilling Contractor: WW Drilling, LLC -

Rig 10

Elevation: 1739 EGL Field Name: Farmer North

SEC: 18 TWN: 19S RNG: 9W

Pool: WILDCAT Job Number: 222

Operation: Test Complete

> **DATE** September 02

> > 2018

DST #1 Formation: Arbuckle Test Interval: 3175 -

Total Depth: 3232'

3232'

Time On: 14:15 09/02

Time Off: 21:32 09/02

Time On Bottom: 15:55 09/02 Time Off Bottom: 19:10 09/02

Electronic Volume Estimate:

153'

1st Open Minutes: 45 **Current Reading:**

4" at 45 min

Max Reading: 4"

1st Close Minutes: 30

Current Reading: 0" at 30 min

Max Reading: 0"

2nd Open

Minutes: 60

Current Reading:

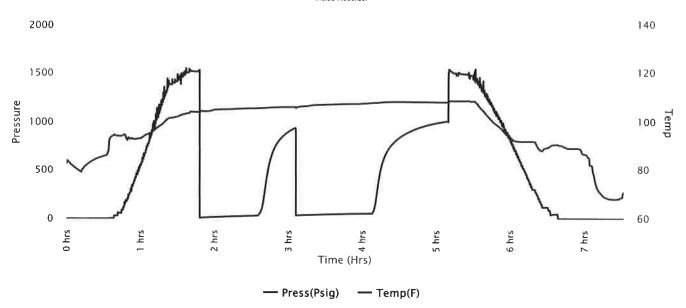
5" at 60 min Max Reading: 5"

2nd Close Minutes: 60 Current Reading:

.25" at 60 min

Max Reading: :25"

Inside Recorder





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Recovered

| <u>Foot</u> | BBLS | <u>Description of Fluid</u> | <u>Gas %</u> | <u>Oil %</u> | <u>Water %</u> | <u>Mud %</u> |
|-------------|---------|-----------------------------|--------------|--------------|----------------|--------------|
| 65 | 0.35704 | 0 | 0 | 100 | 0 | 0 |
| 60 | 0.2952 | OCM | 0 | 23 | 0 | 77 |

Total Recovered: 125 ft

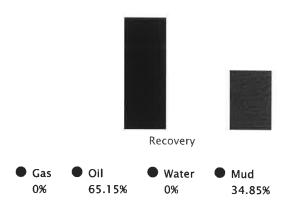
Total Barrels Recovered: 0.65224

Close / Final Close

| Reversed Out |
|--------------|
| NO |

| | | V | |
|------------------------------|----------|-----|--------------|
| Initial Hydrostatic Pressure | 1528 | PSI | |
| Initial Flow | 14 to 37 | PSI | <u></u> 0.25 |
| Initial Closed in Pressure | 943 | PSI | _ |
| Final Flow Pressure | 40 to 60 | PSI | |
| Final Closed in Pressure | 1013 | PSI | 0 |
| Final Hydrostatic Pressure | 1518 | PSI | |
| Temperature | 109 | °F | |
| | | | |
| Pressure Change Initial | 0.0 | % | |
| 18 | | | |

Recovery at a glance





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BUCKET MEASUREMENT:

1st Open: 1/4 in. blow building to 4 ins. in 45 mins.

1st Close: No blow back.

2nd Open: Weak, surface blow building to 5 ins. in 60 mins.

2nd Close: 1/4 in. blow back.

REMARKS:

Tool Sample: 0% Gas 36% Oil 0% Water 64% Mud

Gravity: 46.2 @ 60 °F



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Down Hole Makeup

Heads Up: 6.549999999998 FT

DST #1

Packer 1: 3170 FT

Drill Pipe: 3035.39 FT Packer 2: 3175 FT

ID-3 1/2

Top Recorder: 3162 FT

Weight Pipe: FT

Bottom Recorder: 3213 FT

ID-2 7/8

Well Bore Size:

Collars: 121 FT 7 7/8

ID-2 1/4

Surface Choke: 1"

26.16 FT

Bottom Choke: 5/8"

Test Tool: ID-3 1/2-FH

Total Anchor: 57

Anchor Makeup

Packer Sub:

1 FT

Perforations: (top):

3 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor):

32 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below):

20 FT

4 1/2-FH



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Mud Properties

Mud Type: Chemical

Weight: 9.1

Viscosity: 51

Filtrate: 9.2

Chlorides: 5,000 ppm