



Company: L. D. Drilling, Inc
Lease: Barrett Trust #1-20

SEC: 20 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 3261 EGL
 Field Name: Morgan Ext
 Pool: Infield
 Job Number: 200

Operation:
 Test Complete

DATE
 August
08
 2018

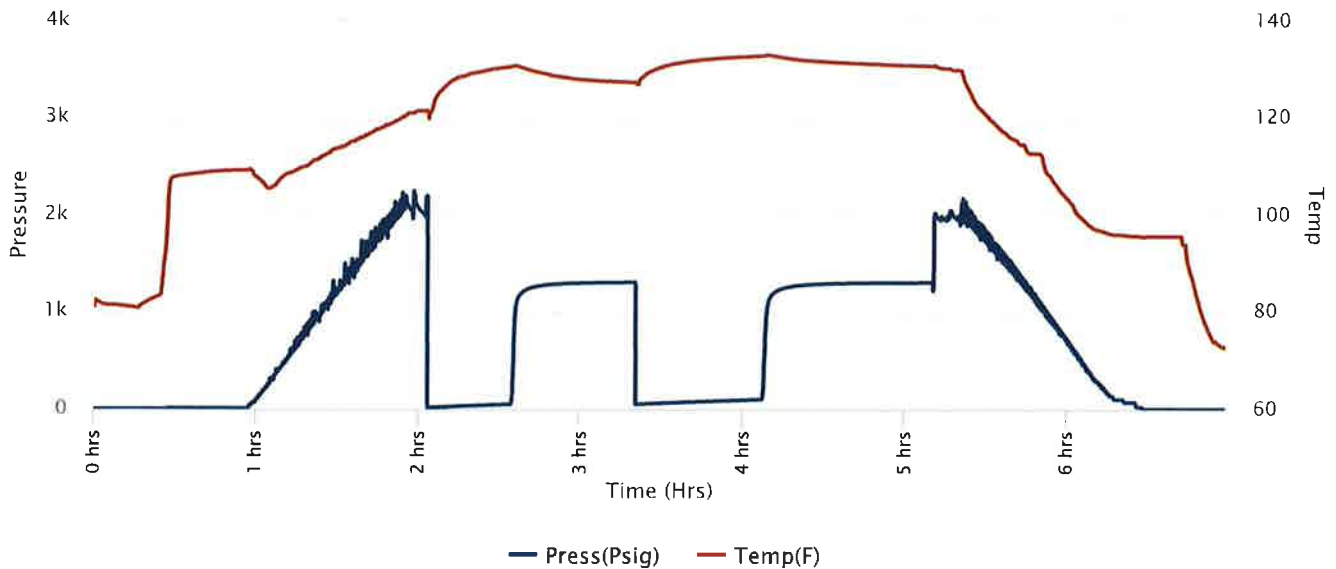
DST #2 Formation: L/KC 'H' Test Interval: 4243 - 4275' Total Depth: 4275'

Time On: 18:25 08/08 Time Off: 01:13 08/09
 Time On Bottom: 20:22 08/08 Time Off Bottom: 23:22 08/08

Electronic Volume Estimate:
 160'

| <u>1st Open</u> | <u>1st Close</u> | <u>2nd Open</u> | <u>2nd Close</u> |
|----------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Minutes: 30 | Minutes: 45 | Minutes: 45 | Minutes: 60 |
| Current Reading: 6.75" at 30 min | Current Reading: 0" at 45 min | Current Reading: 7" at 45 min | Current Reading: 0" at 60 min |
| Max Reading: 6.75" | Max Reading: 0" | Max Reading: 7" | Max Reading: 0" |

Inside Recorder





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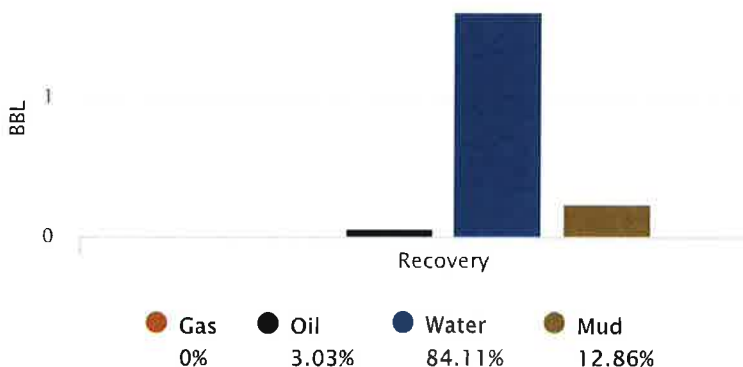
Recovered

| Foot | BBLs | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|---------|----------------------|-------|-------|---------|-------|
| 2 | 0.02052 | O | 0 | 100 | 0 | 0 |
| 188 | 1.92888 | SLOCSLMCW | 0 | 2 | 85 | 13 |

Total Recovered: 190 ft
 Total Barrels Recovered: 1.9494

Reversed Out
 NO

Recovery at a glance



| | | |
|---|-------------|------------|
| Initial Hydrostatic Pressure | 2047 | PSI |
| Initial Flow | 17 to 52 | PSI |
| Initial Closed in Pressure | 1309 | PSI |
| Final Flow Pressure | 53 to 101 | PSI |
| Final Closed in Pressure | 1309 | PSI |
| Final Hydrostatic Pressure | 2025 | PSI |
| Temperature | 134 | °F |
| Pressure Change Initial Close / Final Close | 0.0 | % |



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BUCKET MEASUREMENT:

1st Open: 1/2" BLOW-INCREASING TO 6 3/4" IN 30 MINUTES

1st Close: NO BLOW BACK

2nd Open: NO BLOW-INCREASING TO 7" IN 45 MINUTES

2nd Close: NO BLOW BACK

REMARKS:

Tool Sample: 0% Gas 2% Oil 98% Water 0% Mud

Gravity: 23.3 @ 60 °F

Ph: 7

Measured RW: .11 @ 65 degrees °F

RW at Formation Temp: 0.056 @ 134 °F

Chlorides: 77000 ppm



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Down Hole Makeup

| | |
|--|---------------------------------|
| Heads Up: 33.38 FT | Packer 1: 4238 FT |
| Drill Pipe: 4243.81 FT <i>ID-3 1/4</i> | Packer 2: 4243 FT |
| Weight Pipe: FT <i>ID-2 7/8</i> | Top Recorder: 4227.42 FT |
| Collars: FT <i>ID-2 1/4</i> | Bottom Recorder: 4248 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: 32 | Surface Choke: 1" |
| | Bottom Choke: 5/8" |

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/4

Change Over: FT

Perforations: (below): 28 FT
4 1/2-FH



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Mud Properties

Mud Type: CHEMICAL **Weight: 9.3**

Viscosity: 55

Filtrate: 10.4

Chlorides: 4000 ppm



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Gas Volume Report

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|