



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Darrah Oil Company
225 N. Market STE 300
Wichita KS 67202
ATTN: Seth

21-17s-8w Ellworth
Kratzer #10
Job Ticket: 49477 **DST#: 2**
Test Start: 2012.08.08 @ 04:43:15

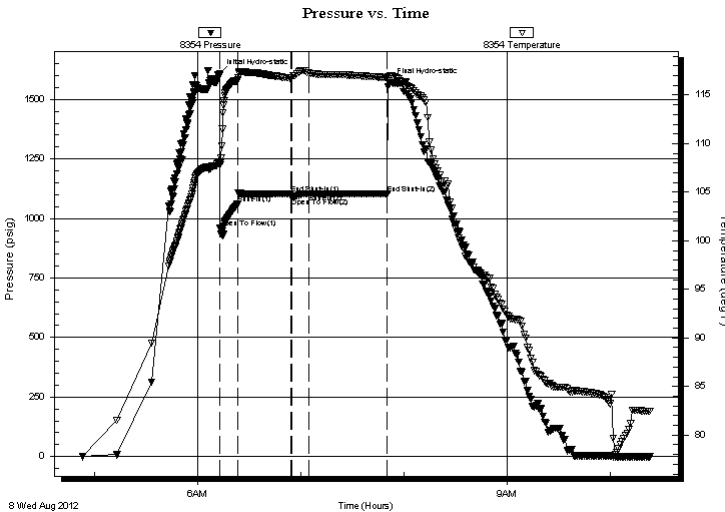
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:13:05
Time Test Ended: 10:22:45
Interval: **3219.00 ft (KB) To 3293.00 ft (KB) (TVD)**
Total Depth: 3293.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
Reference Elevations: 1793.00 ft (KB)
1788.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8354 Inside
Press @ Run Depth: 1104.17 psig @ 3258.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.08.08 End Date: 2012.08.08 Last Calib.: 2012.08.08
Start Time: 04:53:15 End Time: 10:22:45 Time On Btm: 2012.08.08 @ 06:12:55
Time Off Btm: 2012.08.08 @ 07:51:45

TEST COMMENT: IF-Very Strong Blow . BOB in 30 Seconds.
ISI-No Return.
FF-Very Strong Blow . BOB in 30 Seconds.
FSI-No Return.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1609.48 | 108.06 | Initial Hydro-static |
| 1 | 960.88 | 107.84 | Open To Flow (1) |
| 11 | 1062.02 | 116.54 | Shut-In(1) |
| 42 | 1104.72 | 116.73 | End Shut-In(1) |
| 42 | 1085.16 | 116.81 | Open To Flow (2) |
| 52 | 1104.17 | 117.26 | Shut-In(2) |
| 98 | 1103.35 | 116.79 | End Shut-In(2) |
| 99 | 1569.05 | 117.00 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 186.00 | 100%Water | 0.91 |
| 1991.00 | 10%Oil/80%Water/10%Mud | 27.36 |
| 496.00 | 5%Oil/20%Water/75%Mud | 6.96 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



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FLUID SUMMARY

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Test Start: 2012.08.08 @ 04:43:15

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 9000 ppm |
| Viscosity: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.98 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.55 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 5000.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------|---------------|
| 186.00 | 100%Water | 0.915 |
| 1991.00 | 10%Oil/80%Water/10%Mud | 27.364 |
| 496.00 | 5%Oil/20%Water/75%Mud | 6.958 |

Total Length: 2673.00 ft Total Volume: 35.237 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

