



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

2717 Canal Blvd Hays KS 67601

ATTN: Keith Reavis

M & M Unit #1-5

5-22-16 Pawnee

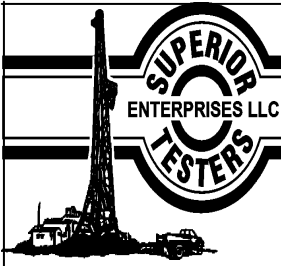
Start Date: 2013.06.15 @ 15:40:00

End Date: 2013.06.15 @ 20:40:30

Job Ticket #: 17472 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.06.15 @ 20:50:54



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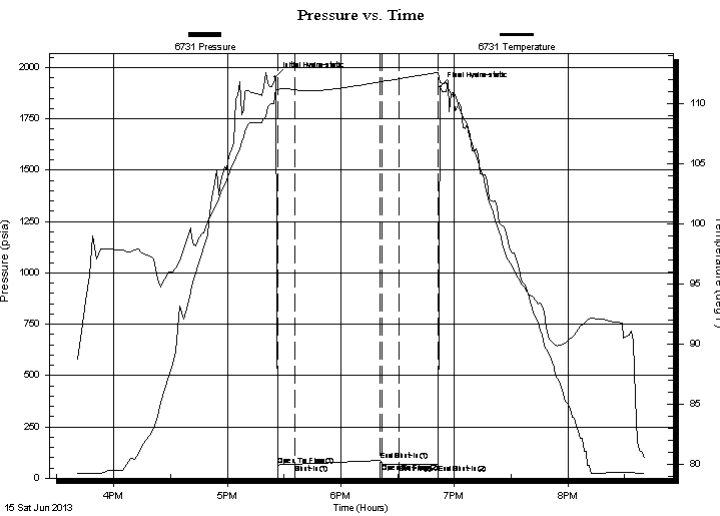
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:26:30
 Time Test Ended: 20:40:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend
 Interval: **3842.00 ft (KB) To 3887.00 ft (KB) (TVD)**
 Reference Elevations: 2016.00 ft (KB)
 Total Depth: 3387.00 ft (KB) (TVD)
 2003.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 13.00 ft

Serial #: 6731

Press@RunDepth: 67.04 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.06.15 End Date: 2013.06.15 Last Calib.: 2013.06.15
 Start Time: 15:40:00 End Time: 20:40:30 Time On Btm: 2013.06.15 @ 17:25:30
 Time Off Btm: 2013.06.15 @ 18:52:30

TEST COMMENT: 1st Opening 10 Minutes-Weak blow built 1/2 inc into bucket in 10 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 10 Minutes-Very weak surface blow die off
 2nd Shut-in 15 Minutes-No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1953.22 | 111.28 | Initial Hydro-static |
| 1 | 63.21 | 111.10 | Open To Flow (1) |
| 10 | 67.02 | 111.16 | Shut-In(1) |
| 55 | 85.30 | 111.80 | End Shut-In(1) |
| 56 | 69.75 | 111.83 | Open To Flow (2) |
| 66 | 67.04 | 112.08 | Shut-In(2) |
| 86 | 68.84 | 112.59 | End Shut-In(2) |
| 87 | 1906.77 | 111.72 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 10.00 | Slight oil mud 5%oil 95%mud | 0.14 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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TOOL DIAGRAM

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 Test Start: 2013.06.15 @ 15:40:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3834.00 ft | Diameter: 3.80 inches | Volume: 53.78 bbl | Tool Weight: 1000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 53.78 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 75000.00 lb |
| Depth to Top Packer: | 3842.00 ft | | | Final 75000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 45.00 ft | | | |
| Tool Length: | 73.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|------------------------------------|
| Shut-In Tool | 5.00 | | | 3819.00 | |
| Hydraulic Tool | 5.00 | | | 3824.00 | |
| Jars | 6.00 | | | 3830.00 | |
| Safety Joint | 2.00 | | | 3832.00 | |
| Packer | 5.00 | | | 3837.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3842.00 | |
| Anchor | 40.00 | | | 3882.00 | |
| Recorder | 1.00 | 6731 | Inside | 3883.00 | |
| Recorder | 1.00 | 8159 | Outside | 3884.00 | |
| Bullnose | 3.00 | | | 3887.00 | 45.00 Bottom Packers & Anchor |
| Total Tool Length: | 73.00 | | | | |



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FLUID SUMMARY

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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: | ppm |
| Viscosity: | 45.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 10.80 in ³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psia | | |
| Salinity: | 6200.00 ppm | | | | |
| Filter Cake: | 1.00 inches | | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------------|---------------|
| 10.00 | Slight oil mud 5%oil 95%mud | 0.140 |

Total Length: 10.00 ft Total Volume: 0.140 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

