



DRILL STEM TEST REPORT

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

2717 Canal Blvd Hays KS 67601

ATTN: Jeremy Schwartz

Reif Trust #1-23

23-18-14 Barton

Start Date: 2014.05.21 @ 21:00:00

End Date: 2014.05.22 @ 02:38:00

Job Ticket #: 19244 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
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Printed: 2014.05.22 @ 03:48:46



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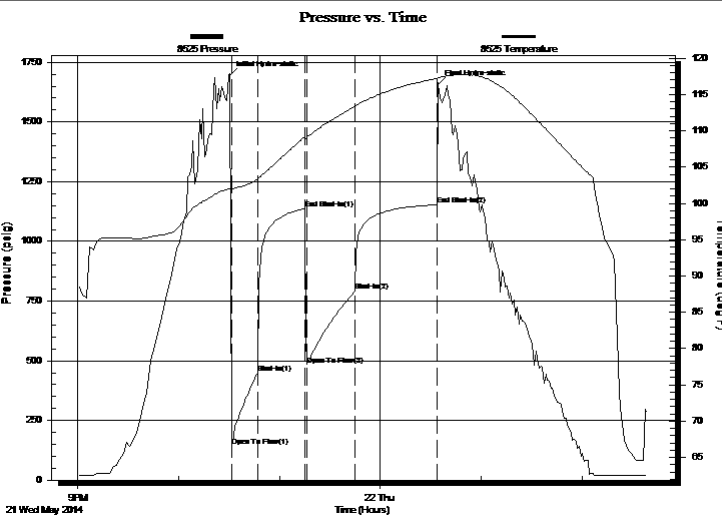
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:32:00 Tester: Jared Scheck
 Time Test Ended: 02:38:00 Unit No: 3335-Great Bend -25
 Interval: **3420.00 ft (KB) To 3428.00 ft (KB) (TVD)** Reference Elevations: 1914.00 ft (KB)
 Total Depth: 3428.00 ft (KB) (TVD) 1901.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 8525

Press@RunDepth: 1152.99 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.05.21 End Date: 2014.05.22 Last Calib.: 2014.05.22
 Start Time: 21:00:00 End Time: 02:38:30 Time On Btm: 2014.05.21 @ 22:30:30
 Time Off Btm: 2014.05.22 @ 00:34:30

TEST COMMENT: 1st Opening 15 Minutes-Strong blow built bottom of bucket in 1 1/2 minutes
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 2 minutes
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1696.09 | 102.03 | Initial Hydro-static |
| 1 | 142.53 | 101.84 | Open To Flow (1) |
| 17 | 449.14 | 103.33 | Shut-In(1) |
| 45 | 1136.33 | 109.14 | End Shut-In(1) |
| 46 | 483.76 | 109.09 | Open To Flow (2) |
| 75 | 791.43 | 113.34 | Shut-In(2) |
| 123 | 1152.99 | 117.18 | End Shut-In(2) |
| 124 | 1656.85 | 117.38 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 1680.00 | water | 20.56 |
| 0.00 | chlorides 23,0000 | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3087.00 ft | Diameter: 3.80 inches | Volume: 43.30 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: 330.00 ft | Diameter: 2.25 inches | Volume: 1.62 bbl | Weight to Pull Loose: 85000.00 lb |
| | | | <u>Total Volume: 44.92 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 3420.00 ft | | | Final 80000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 8.00 ft | | | |
| Tool Length: | 31.00 ft | | | |
| Number of Packers: | 1 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|---------------------------------|
| Shut-In Tool | 5.00 | | | 3402.00 | |
| Hydraulic Tool | 5.00 | | | 3407.00 | |
| Jars | 6.00 | | | 3413.00 | |
| Safety Joint | 2.00 | | | 3415.00 | |
| Packer | 5.00 | | | 3420.00 | 23.00 Bottom Of Top Packer |
| Anchor | 3.00 | | | 3423.00 | |
| Recorder | 1.00 | 6666 | Inside | 3424.00 | |
| Recorder | 1.00 | 8525 | Outside | 3425.00 | |
| Bull Plug | 3.00 | | | 3428.00 | 8.00 Anchor Tool |
| Total Tool Length: | 31.00 | | | | |



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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: 58.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.20 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 5700.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 1680.00 | water | 20.560 |
| 0.00 | chlorides 23,0000 | 0.000 |

Total Length: 1680.00 ft Total Volume: 20.560 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: chlorides 23,000

Pressure vs. Time

