



DRILL STEM TEST REPORT

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

2717 Canal Blvd Suite C
Hays Kansas 676-1

ATTN: Jeremy Schwartz

Buster #2

3-22s-16w

Start Date: 2015.04.18 @ 09:19:00

End Date: 2015.04.18 @ 14:45:00

Job Ticket #: 01027 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2015.04.18 @ 15:06:44



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Test Start: 2015.04.18 @ 09:19:00

GENERAL INFORMATION:

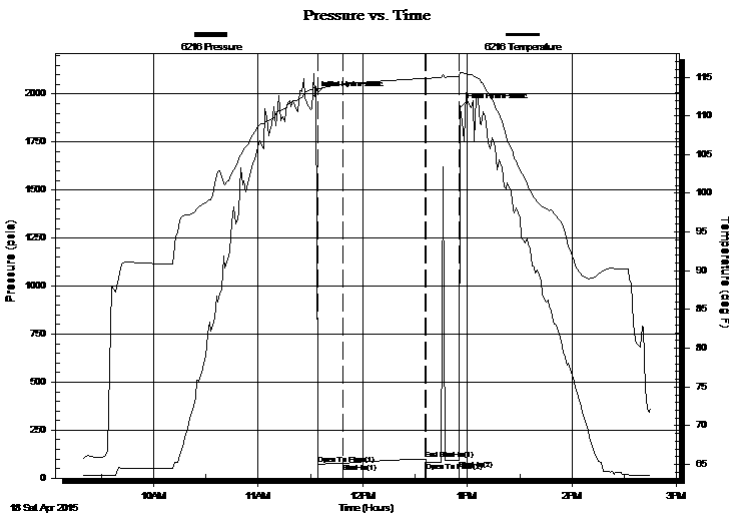
Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:34:30
 Time Test Ended: 14:45:00
 Interval: **3840.00 ft (KB) To 3904.00 ft (KB) (TVD)**
 Total Depth: 3904.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 01-48 FROM GB
 Reference Elevations: 2006.00 ft (KB)
 1992.00 ft (CF)
 KB to GR/CF: 14.00 ft

Serial #: 6216

Outside

Press@RunDepth: 77.58 psia @ 3899.14 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.04.18 End Date: 2015.04.18 Last Calib.: 2015.04.18
 Start Time: 09:19:00 End Time: 14:45:00 Time On Btm: 2015.04.18 @ 11:32:30
 Time Off Btm: 2015.04.18 @ 12:56:00

TEST COMMENT: 1st Opening 15 Minutes weak building blow built to 2 1/2 inches into the water
 1st Shut-In 45 Minutes-No blow back
 2nd Opening 20 Minutes-No blow flushed tool after 7 minutes good surge weak blow for 2 minutes and died
 2nd Shut-In none taken



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1991.81 | 113.60 | Initial Hydro-static |
| 2 | 71.67 | 113.47 | Open To Flow (1) |
| 16 | 77.58 | 114.06 | Shut-In(1) |
| 63 | 100.34 | 114.84 | End Shut-In(1) |
| 64 | 80.83 | 114.84 | Open To Flow (2) |
| 83 | 94.03 | 115.07 | Shut-In(2) |
| 84 | 1930.71 | 115.61 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 60.00 | Drilling Mud | 0.30 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



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Buster #2

Job Ticket: 01027

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2015.04.18 @ 09:19:00

GENERAL INFORMATION:

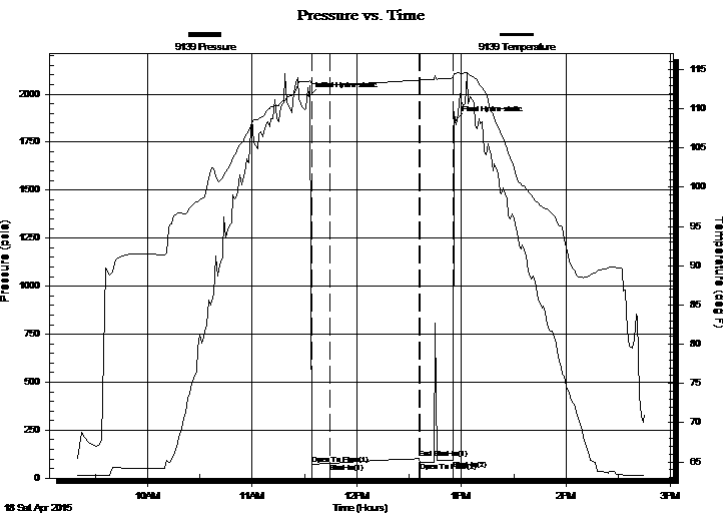
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 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 01-48 FROM GB
 Reference Elevations: 2006.00 ft (KB)
 1992.00 ft (CF)
 KB to GR/CF: 14.00 ft

Serial #: 9139

Inside

Press@RunDepth: 101.22 psia @ 3899.14 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.04.18 End Date: 2015.04.18 Last Calib.: 2015.04.18
 Start Time: 09:19:00 End Time: 14:45:00 Time On Btm: 2015.04.18 @ 11:32:30
 Time Off Btm: 2015.04.18 @ 12:56:30

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 2nd Shut-In none taken



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1988.22 | 113.50 | Initial Hydro-static |
| 2 | 71.32 | 113.19 | Open To Flow (1) |
| 12 | 77.97 | 113.11 | Shut-In(1) |
| 63 | 101.22 | 113.65 | End Shut-In(1) |
| 64 | 81.61 | 113.66 | Open To Flow (2) |
| 83 | 94.96 | 113.93 | Shut-In(2) |
| 84 | 1860.76 | 114.46 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 60.00 | Drilling Mud | 0.30 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C.

3-22s-16w

2717 Canal Blvd Suite C
Hays Kansas 676-1

Buster #2

Job Ticket: 01027

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2015.04.18 @ 09:19:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3756.00 ft | Diameter: 3.80 inches | Volume: 52.69 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: | 20000.00 lb |
| Drill Collar: | Length: 63.00 ft | Diameter: 2.25 inches | Volume: 0.31 bbl | Weight to Pull Loose: | 74000.00 lb |
| | | | <u>Total Volume: 53.00 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 8.00 ft | | | String Weight: Initial | 54000.00 lb |
| Depth to Top Packer: | 3840.00 ft | | | Final | 54000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 64.14 ft | | | | |
| Tool Length: | 93.14 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 | | | 3816.00 | |
| Hydraulic tool | 5.00 | | | 3821.00 | |
| Jars | 7.00 | | | 3828.00 | |
| Safety Joint | 2.00 | | Fluid | 3830.00 | |
| Top Packer | 5.00 | | | 3835.00 | |
| Packer | 5.00 | | | 3840.00 | 29.00 Bottom Of Top Packer |
| Anchor | 5.00 | | | 3845.00 | |
| Change Over Sub | 0.75 | | Inside | 3845.75 | |
| Drill Pipe | 30.64 | | | 3876.39 | |
| Change Over Sub | 0.75 | | | 3877.14 | |
| Anchor | 22.00 | | | 3899.14 | |
| Recorder | 0.00 | 9139 | Inside | 3899.14 | |
| Recorder | 0.00 | 6216 | Outside | 3899.14 | |
| Bullnose | 5.00 | | | 3904.14 | 64.14 Anchor Tool |

Total Tool Length: 93.14



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FLUID SUMMARY

Shelby Resources L.L.C.

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Job Ticket: 01027

DST#: 1

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Test Start: 2015.04.18 @ 09:19:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 60.00 | Drilling Mud | 0.295 |

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

