



DRILL STEM TEST REPORT

WOOLSEY OPERATING COMPANY L.L.C

JAHAY A GU #2

125 N MARKET STE 1000 WICHITA KS
67202+1729

1-34-11-BARBER

Job Ticket: 15627

DST#: 1

ATTN:

Test Start: 2011.03.04 @ 22:03:00

GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:00

Time Test Ended: 07:12:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- -

Interval: 4532.00 ft (KB) To 4654.00 ft (KB) (TVD)

Reference Elevations: 1429.00 ft (KB)

Total Depth: 4654.00 ft (KB) (TVD)

1418.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8419

Inside

Press@RunDepth: 98.32 psia @ 4650.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.04

End Date:

2011.03.05

Last Calib.:

2011.03.05

Start Time:

22:03:00

End Time:

07:12:00

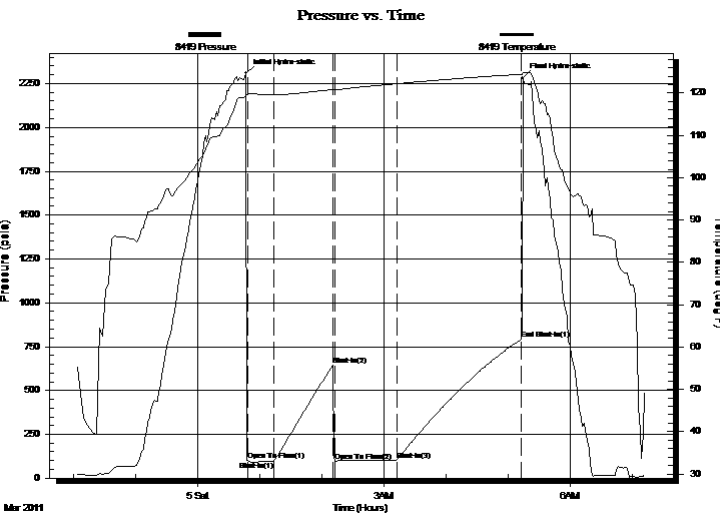
Time On Btm:

2011.03.05 @ 00:47:00

Time Off Btm:

2011.03.05 @ 05:14:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
60/INITIAL SHUT IN:NO BLOW BACK
60/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
120/FINAL SHUT IN :NO BLOW BACK



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2308.60 | 119.46 | Initial Hydro-static |
| 1 | 99.17 | 119.57 | Open To Flow (1) |
| 27 | 98.32 | 119.57 | Shut-In(1) |
| 84 | 646.39 | 120.89 | Shut-In(2) |
| 86 | 97.43 | 120.79 | Open To Flow (2) |
| 146 | 103.03 | 122.23 | Shut-In(3) |
| 266 | 793.70 | 124.45 | End Shut-In(1) |
| 268 | 2283.85 | 124.90 | Final Hydro-static |

Recovery

Gas Rates

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 40.00 | MUD | 0.56 |
| 815.00 | GAS IN PIPE | 11.43 |
| | | |
| | | |
| | | |

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



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TOOL DIAGRAM

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Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4527.00 ft | Diameter: 3.80 inches | Volume: 63.50 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: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 63.50 bbl</u> | Tool Chased 1.00 ft |
| Drill Pipe Above KB: | 24.00 ft | | | String Weight: Initial 60000.00 lb |
| Depth to Top Packer: | 4532.00 ft | | | Final 60000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 122.00 ft | | | |
| Tool Length: | 151.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

| | | | | | |
|-----------------|-------|------|---------|---------|--------------------------------|
| Change Over Sub | 1.00 | | | 4504.00 | |
| Shut-In Tool | 5.00 | | | 4509.00 | |
| Hydraulic Tool | 5.00 | | | 4514.00 | |
| Jars | 6.00 | | | 4520.00 | |
| Safety Joint | 2.00 | | | 4522.00 | |
| Packer | 5.00 | | | 4527.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4532.00 | |
| Change Over Sub | 0.75 | | | 4532.75 | |
| Drill Pipe | 94.50 | | | 4627.25 | |
| Change Over Sub | 0.75 | | | 4628.00 | |
| Perforations | 21.00 | | | 4649.00 | |
| Recorder | 1.00 | 8419 | Inside | 4650.00 | |
| Recorder | 1.00 | 8524 | Outside | 4651.00 | |
| Bullnose | 3.00 | | | 4654.00 | 122.00 Bottom Packers & Anchor |

Total Tool Length: 151.00



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FLUID SUMMARY

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DST#: 1

ATTN:

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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.40 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 40.00 | MUD | 0.561 |
| 815.00 | GAS IN PIPE | 11.432 |

Total Length: 855.00 ft Total Volume: 11.993 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

