



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Company

RICKE #3

125 N. Market
Suite 1000
Wichita, KS 67202-1729
ATTN: Bill Klaver

5-35s-11w-BA-KS

Job Ticket: 41388

DST#: 1

Test Start: 2011.02.19 @ 22:34:00

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:25:45

Time Test Ended: 09:35:15

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: 4664.00 ft (KB) To 4824.00 ft (KB) (TVD)

Reference Elevations: 1386.00 ft (KB)

Total Depth: 4824.00 ft (KB) (TVD)

1374.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6799 Outside

Press @ Run Depth: 347.10 psig @ 4665.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.19

End Date:

2011.02.20

Last Calib.:

2011.02.20

Start Time: 22:34:05

End Time:

09:35:15

Time On Btm:

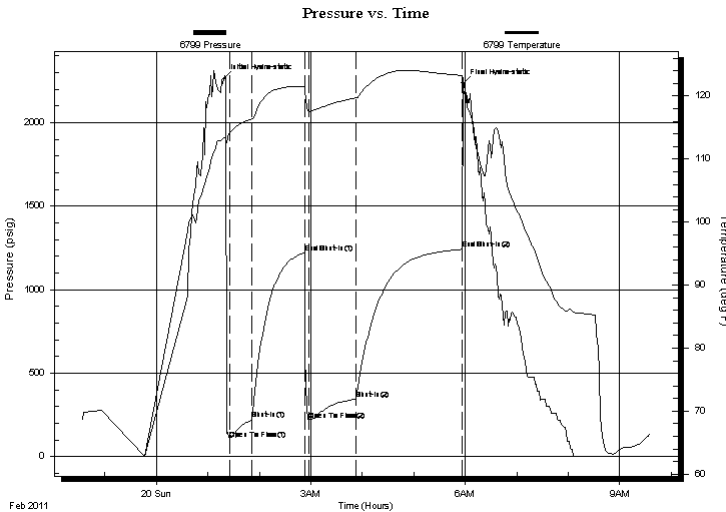
2011.02.20 @ 01:18:45

Time Off Btm:

2011.02.20 @ 05:57:00

TEST COMMENT: IF: Strong blow, BOB 1 minute 30 seconds.
IS: GTS w hile bleeding off, strong BOB blow back.
FF: Strong blow, BOB immediately. Guage gas.
FS: Bled off, strong BOB blow back.

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2263.00 | 113.38 | Initial Hydro-static |
| 7 | 107.90 | 114.26 | Open To Flow (1) |
| 33 | 225.28 | 116.42 | Shut-In(1) |
| 95 | 1223.36 | 121.43 | End Shut-In(1) |
| 99 | 216.63 | 117.59 | Open To Flow (2) |
| 154 | 347.10 | 119.73 | Shut-In(2) |
| 278 | 1242.42 | 123.27 | End Shut-In(2) |
| 279 | 2236.57 | 122.88 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 260.00 | HGC SOC WM 25%g 5%o 20%w 50%m | 1.28 |
| 180.00 | HGC WCM 25%g 7%w 68%m | 0.89 |
| 90.00 | GC SWC M 10%g 2%w 88%m | 0.44 |
| 355.00 | GCM 10%g 90%m | 4.98 |
| 0.00 | rw = .15ohm@68degF=53000ppmChl | 0.00 |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.13 | 22.00 | 13.62 |
| Last Gas Rate | 0.13 | 49.00 | 23.73 |
| Max. Gas Rate | 0.13 | 49.00 | 23.73 |



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 53000 ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------------|---------------|
| 260.00 | HGC SOC WM 25%g 5%o 20%w 50%m | 1.279 |
| 180.00 | HGC WCM 25%g 7%w 68%m | 0.885 |
| 90.00 | GC SWC M 10%g 2%w 88%m | 0.443 |
| 355.00 | GCM 10%g 90%m | 4.980 |
| 0.00 | rw = .15ohm@68degF=53000ppnChl | 0.000 |

Total Length: 885.00 ft Total Volume: 7.587 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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GAS RATES

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DST#: 1

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Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m ³ /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 2 | 10 | 0.13 | 22.00 | 13.62 |
| 2 | 10 | 0.13 | 22.00 | 13.62 |
| 2 | 20 | 0.13 | 33.00 | 17.74 |
| 2 | 30 | 0.13 | 42.00 | 21.11 |
| 2 | 40 | 0.13 | 45.00 | 22.23 |
| 2 | 50 | 0.13 | 49.00 | 23.73 |

