



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

GRAND MESA OPERATING

DBY # 2-16

1700 N WATERFRONT PKWY BLDG 600
WICHITA KS 67206

16-16S-33W SCOTT

Job Ticket: 43891

DST#: 10

ATTN: John Goldsmith

Test Start: 2011.09.19 @ 12:32:00

GENERAL INFORMATION:

Formation: **Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:32:25

Time Test Ended: 21:14:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 35

Interval: **4618.00 ft (KB) To 4650.00 ft (KB) (TVD)**

Reference Elevations: 3048.00 ft (KB)

Total Depth: 4650.00 ft (KB) (TVD)

3037.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 178.42 psig @ 4619.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.19 End Date: 2011.09.19

Last Calib.: 2011.09.19

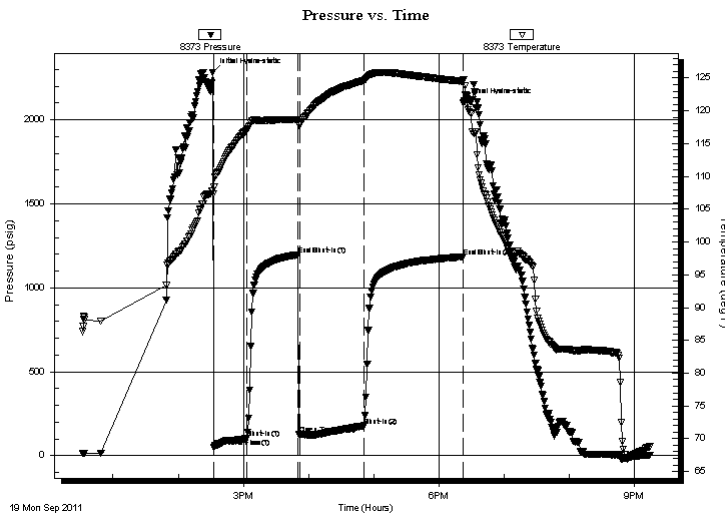
Start Time: 12:32:00 End Time: 21:14:25

Time On Btm: 2011.09.19 @ 14:31:55

Time Off Btm: 2011.09.19 @ 18:22:39

TEST COMMENT: IF- BOB in 10min
IS- Surface Blow Built to 7"
FF- BOB in 8min
FS- BOB in 16 1/2min

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2282.70 | 107.79 | Initial Hydro-static |
| 1 | 48.35 | 107.30 | Open To Flow (1) |
| 31 | 103.11 | 117.03 | Shut-In(1) |
| 78 | 1196.54 | 118.68 | End Shut-In(1) |
| 80 | 126.27 | 117.80 | Open To Flow (2) |
| 139 | 178.42 | 124.61 | Shut-In(2) |
| 231 | 1184.28 | 124.50 | End Shut-In(2) |
| 231 | 2102.66 | 124.78 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 120.00 | MGCO 10%m 15%g 75%oil | 0.59 |
| 122.00 | MGCO 10%m 35%g 55%oil | 0.66 |
| 124.00 | MGCO 5%m 10%g 85%oil | 1.74 |
| 124.00 | MGCO 5%m 35%g 60%oil | 1.74 |
| 0.00 | 1922' of GIP | 0.00 |

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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DBY # 2-16

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16-16S-33W SCOTT

Job Ticket: 43891

DST#: 10

ATTN: John Goldsmith

Test Start: 2011.09.19 @ 12:32:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 68.00 sec/qt
Water Loss: 11.16 in³
Resistivity: ohm.m
Salinity: 10200.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 27 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 120.00 | MGCO 10%m 15%g 75%oil | 0.590 |
| 122.00 | MGCO 10%m 35%g 55%oil | 0.664 |
| 124.00 | MGCO 5%m 10%g 85%oil | 1.739 |
| 124.00 | MGCO 5%m 35%g 60%oil | 1.739 |
| 0.00 | 1922' of GIP | 0.000 |

Total Length: 490.00 ft Total Volume: 4.732 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: API is 29 @ 80 = 27

Serial #: 8373

Inside

GRAND MESA OPERATING

16-16S-33W SCOTT

DST Test Number: 10

