



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Denis Roberts Co.

2-10-26, Sheridan, KS

3904 Fairway Dr
Hays Ks 67601

Werth #7

Job Ticket: 50298

DST#: 2

ATTN:

Test Start: 2013.05.14 @ 20:45:00

GENERAL INFORMATION:

Formation: **KC"1-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:30:30

Time Test Ended: 04:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4025.00 ft (KB) To 4060.00 ft (KB) (TVD)

Reference Elevations: 2593.00 ft (KB)

Total Depth: 4060.00 ft (KB) (TVD)

2588.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8319 Outside

Press @ Run Depth: 78.19 psig @ 4026.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.14

End Date:

2013.05.15

Last Calib.:

2013.05.15

Start Time: 20:45:05

End Time:

04:10:29

Time On Btm:

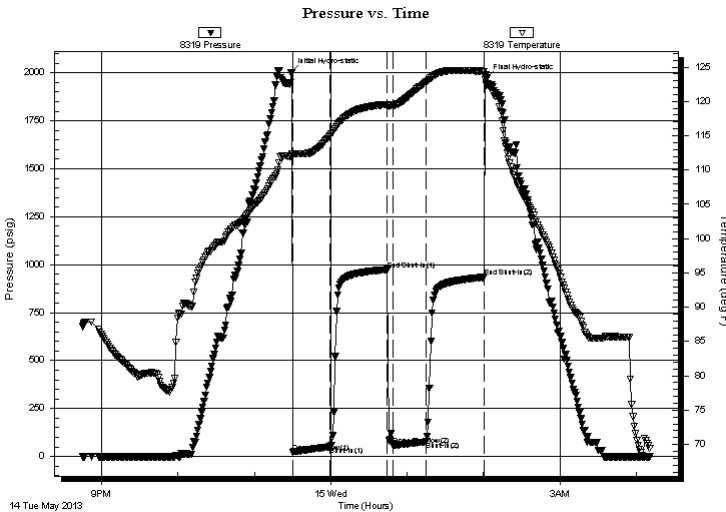
2013.05.14 @ 23:29:00

Time Off Btm:

2013.05.15 @ 02:02:00

TEST COMMENT: IF-BOB in 18min
ISI-1/8in blow died in 18min
FF-BOB in 19min
FSI-1/4 in blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2002.61 | 112.04 | Initial Hydro-static |
| 2 | 23.97 | 112.29 | Open To Flow (1) |
| 31 | 51.17 | 115.03 | Shut-In(1) |
| 76 | 974.68 | 119.57 | End Shut-In(1) |
| 80 | 56.18 | 119.37 | Open To Flow (2) |
| 106 | 78.19 | 122.82 | Shut-In(2) |
| 152 | 934.52 | 124.38 | End Shut-In(2) |
| 153 | 1971.95 | 122.52 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 85.00 | GO 15%G 85%O | 1.19 |
| 55.00 | VSWOCM 25%O 5%W 70%M | 0.77 |
| 0.00 | 240ft 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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DST#: 2

ATTN:

Test Start: 2013.05.14 @ 20:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|----------------------|----------------|
| 85.00 | GO 15%G 85%O | 1.192 |
| 55.00 | VSWOCM 25%O 5%W 70%M | 0.772 |
| 0.00 | 240ft GIP | 0.000 |

Total Length: 140.00 ft

Total Volume: 1.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

