



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Double D's LLC

10-14s-19w Ellis, KS

133 E 12th
Hays, KS 67601

Gottschalk #1

Job Ticket: 55440

DST#: 2

ATTN: Al Downing

Test Start: 2013.12.17 @ 19:15:52

GENERAL INFORMATION:

Formation: **Lansing E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:21:07

Time Test Ended: 02:08:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan L

Unit No: 54

Interval: 3578.00 ft (KB) To 3597.00 ft (KB) (TVD)

Reference Elevations: 2209.00 ft (KB)

Total Depth: 3597.00 ft (KB) (TVD)

2203.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8789 Inside

Press @ Run Depth: 72.96 psig @ 3594.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.17

End Date:

2013.12.18

Last Calib.: 2013.12.18

Start Time: 19:15:54

End Time:

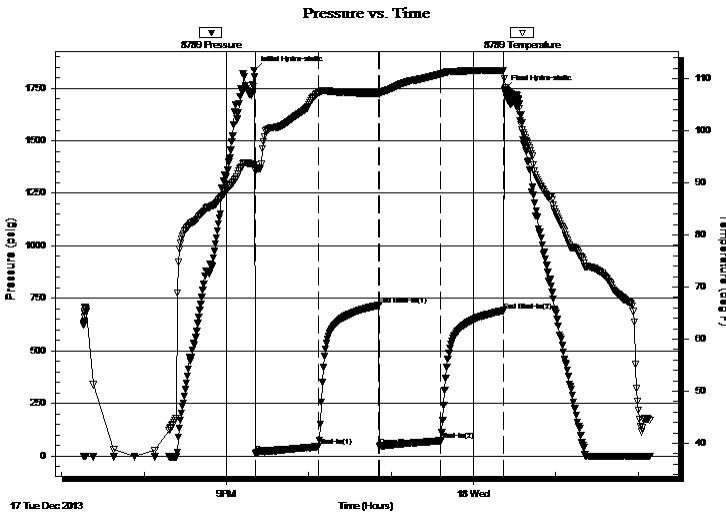
02:08:52

Time On Btm: 2013.12.17 @ 21:20:07

Time Off Btm: 2013.12.18 @ 00:22:37

TEST COMMENT: 45- IF- BOB 38mins
45- IS- Surface blow
45- FF- Built to 7"
45- FSI- No blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1834.70 | 93.46 | Initial Hydro-static |
| 1 | 12.70 | 92.16 | Open To Flow (1) |
| 47 | 45.49 | 107.29 | Shut-In(1) |
| 91 | 717.16 | 107.17 | End Shut-In(1) |
| 92 | 47.42 | 106.96 | Open To Flow (2) |
| 136 | 72.96 | 110.84 | Shut-In(2) |
| 182 | 692.42 | 111.55 | End Shut-In(2) |
| 183 | 1743.31 | 109.94 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 130.00 | MW, 80%W | 1.78 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------|----------------|
| 130.00 | MW, 80%W | 1.776 |

Total Length: 130.00 ft

Total Volume: 1.776 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

