



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castelli Exploration Inc.

30-30s-18w Kiowa Ks.

6908 N.W. 112th
Oklahoma City Ok.73162

Thompson#1-30

Job Ticket: 45792

DST#: 2

ATTN: Rick Popp

Test Start: 2012.04.19 @ 09:29:46

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:34:31

Time Test Ended: 17:58:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 5058.00 ft (KB) To 5110.00 ft (KB) (TVD)

Total Depth: 5110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2223.00 ft (KB)

2211.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8370

Inside

Press @ RunDepth: 54.74 psig @ 5059.00 ft (KB)

Start Date: 2012.04.19

End Date:

2012.04.19

Start Time: 09:29:51

End Time:

17:58:00

Capacity: 8000.00 psig

Last Calib.: 2012.04.19

Time On Btm: 2012.04.19 @ 12:31:31

Time Off Btm: 2012.04.19 @ 15:52:31

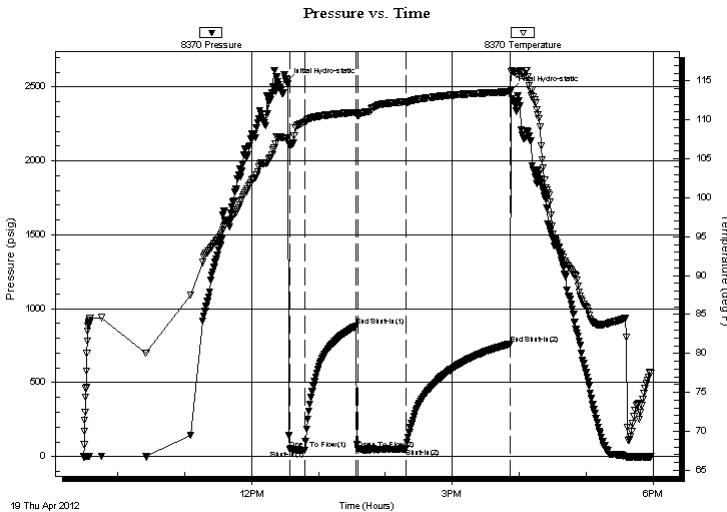
TEST COMMENT: IF: Strong blow . B.O.B. in 25 secs. GTS in 9 mins. (see gas flow report)

IS: Weak to fair blow . 1 - 6".

FF: Strong blow . (see gas flow report)

FS: Weak blow . 1 - 4".

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2532.18 | 107.73 | Initial Hydro-static |
| 3 | 50.53 | 106.81 | Open To Flow (1) |
| 17 | 42.91 | 109.70 | Shut-In (1) |
| 63 | 882.34 | 110.98 | End Shut-In (1) |
| 65 | 49.65 | 110.51 | Open To Flow (2) |
| 107 | 54.74 | 112.36 | Shut-In (2) |
| 200 | 761.59 | 113.61 | End Shut-In (2) |
| 201 | 2475.89 | 116.18 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------|--------------|
| 95.00 | GOCM 10%g 7%o 83%m | 1.33 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.38 | 3.50 | 65.57 |
| Last Gas Rate | 0.25 | 3.00 | 27.60 |
| Max. Gas Rate | 0.38 | 3.50 | 65.57 |

* Recovery from multiple tests



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FLUID SUMMARY

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DST#: 2

ATTN: Rick Popp

Test Start: 2012.04.19 @ 09:29:46

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:

10000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------|---------------|
| 95.00 | GOCM 10%g 7%o 83%m | 1.333 |

Total Length: 95.00 ft

Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

Serial #: gp-2

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



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GAS RATES

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Thompson#1-30

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DST#: 2

ATTN: Rick Popp

Test Start: 2012.04.19 @ 09:29:46

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 1 | 15 | 0.38 | 3.50 | 65.57 |
| 2 | 10 | 0.38 | 3.50 | 65.57 |
| 2 | 20 | 0.38 | 2.00 | 60.08 |
| 2 | 40 | 0.25 | 2.00 | 26.02 |
| 2 | 45 | 0.25 | 3.00 | 27.60 |

Pressure vs. Time

