

**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Wiepking-Fullerton Energy, LLC

**Surf #3**

4600 S Downing St. Englewood, CO 80113

**30/10/55**

Job Ticket: 31030

**DST#: 1**

ATTN: Don McKenna

Test Start: 2008.11.04 @ 09:54:18

### GENERAL INFORMATION:

Formation: **Cherokee A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:19:38

Time Test Ended: 22:35:07

Test Type: Conventional Straddle

Tester: Chris Hagman

Unit No: 34

**Interval: 7195.00 ft (KB) To 7232.00 ft (KB) (TVD)**

Total Depth: 7337.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Good

Reference Elevations: 5294.00 ft (KB)

5281.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 6753 Inside**

Press@RunDepth: 1206.55 psig @ 7199.00 ft (KB)

Start Date: 2008.11.04

End Date:

2008.11.04

Start Time: 09:54:19

End Time:

22:35:07

Capacity: 7000.00 psig

Last Calib.: 2008.11.04

Time On Btm: 2008.11.04 @ 13:19:08

Time Off Btm: 2008.11.04 @ 16:41:38

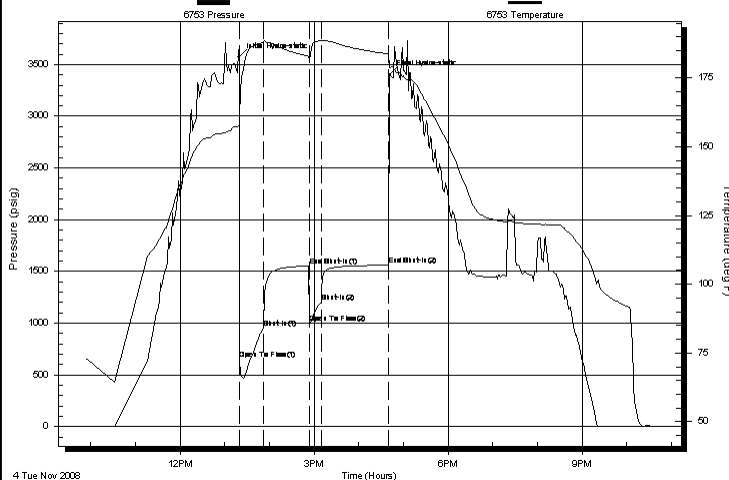
**TEST COMMENT:** IF: BOB 30 sec., GTS 6 min., strong dying blow

IS: Blow never died, BOB 30 sec.

FF: BOB GTS ASAO, strong dying blow

FS: Blow back immediately BOB 2 min.

Pressure vs. Time



### PRESSURE SUMMARY

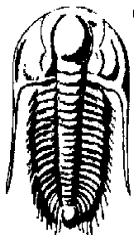
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3571.25	157.66	Initial Hydro-static
1	647.48	158.93	Open To Flow (1)
33	949.94	187.89	Shut-In(1)
95	1552.98	182.92	End Shut-In(1)
95	997.59	181.92	Open To Flow (2)
111	1206.55	188.49	Shut-In(2)
201	1559.87	183.83	End Shut-In(2)
203	3401.69	178.83	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2700.00	100%W	35.38
300.00	5%G,95%O	4.21

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	5.00	130.87
Last Gas Rate	0.25	2.00	26.02
Max. Gas Rate	0.50	5.00	130.87



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### FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

23000 ppm

Viscosity: 79.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 300.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2700.00	100%W	35.378
300.00	5%G,95%O	4.208

Total Length: 3000.00 ft      Total Volume: 39.586 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

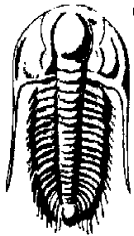
Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: API=36@60F=36

RW=.298@70F=23000ppm



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## DRILL STEM TEST REPORT

**GAS RATES**

Wiepking-Fullerton Energy, LLC

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**30/10/55**

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ATTN: Don McKenna

Test Start: 2008.11.04 @ 09:54:18

### 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 (m³/d)
1	10	0.50	5.00	130.87
1	10	0.50	5.00	130.87
1	20	0.25	3.00	27.60
1	30	0.25	2.00	26.02

