



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Co.
125 N Market Ste 1000
Wichita, KS 67202
ATTN: Bill Klaver

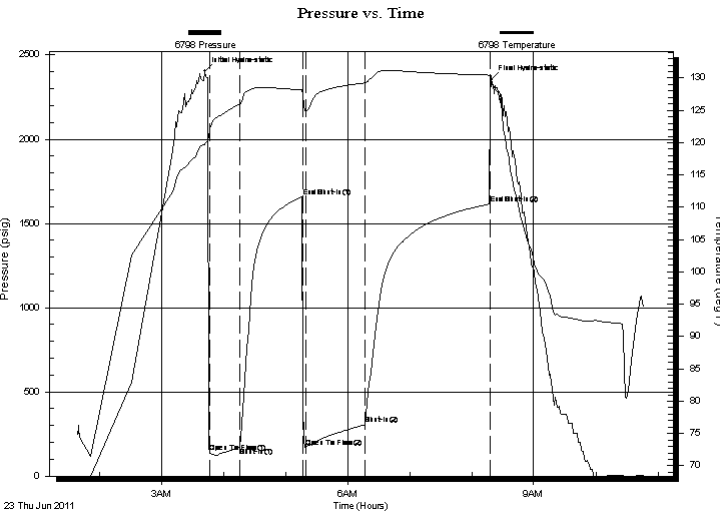
Weckworth # 3
9-35S-12W Barber
Job Ticket: 042463 **DST#: 1**
Test Start: 2011.06.23 @ 01:39:11

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:46:56
Time Test Ended: 10:47:56
Interval: **4847.00 ft (KB) To 4915.00 ft (KB) (TVD)**
Total Depth: 4915.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1419.00 ft (KB)
1408.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 Inside
Press @ Run Depth: 306.84 psig @ 4848.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.06.23 End Date: 2011.06.23 Last Calib.: 2011.06.23
Start Time: 01:39:12 End Time: 10:47:56 Time On Btm: 2011.06.23 @ 03:42:11
Time Off Btm: 2011.06.23 @ 08:18:56

TEST COMMENT: IF: Strong Blow , BOB in 45 seconds
IS: Bled Off, No Blow back
FF: Strong Blow , BOB in 20 seconds, GTS in 2 minutes, Gauged Gas & Caught Sample
FS: Bled Off, 1/4 inch Blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2403.24	119.69	Initial Hydro-static
5	142.41	121.93	Open To Flow (1)
34	170.43	126.00	Shut-In(1)
95	1660.05	128.23	End Shut-In(1)
98	172.61	124.92	Open To Flow (2)
155	306.84	129.26	Shut-In(2)
276	1615.88	130.45	End Shut-In(2)
277	2351.25	130.33	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	3990 Feet GIP	0.00
847.00	Gassy Oil 5%G 95%O	11.88

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	11.00	40.45
Last Gas Rate	0.25	18.00	51.56
Max. Gas Rate	0.25	18.00	51.56



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FLUID SUMMARY

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Weckworth # 3

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Job Ticket: 042463

DST#: 1

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Test Start: 2011.06.23 @ 01:39:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3990 Feet GIP	0.000
847.00	Gassy Oil 5%G 95%O	11.881

Total Length: 847.00 ft Total Volume: 11.881 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: Gravity Was 35 @ 90 degrees, 32 corrected



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GAS RATES

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9-35S-12W Barber

Job Ticket: 042463

DST#: 1

ATTN: Bill Klaver

Test Start: 2011.06.23 @ 01:39:11

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 (m ³ /d)
2	10	0.25	11.00	40.45
2	20	0.25	14.00	45.21
2	30	0.25	15.00	46.80
2	40	0.25	16.00	48.39
2	50	0.25	18.00	51.56
2	60	0.25	18.00	51.56

Pressure vs. Time

