



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DNOC
PO Box 372
Hays, Ks
67601
ATTN: Marc Downing

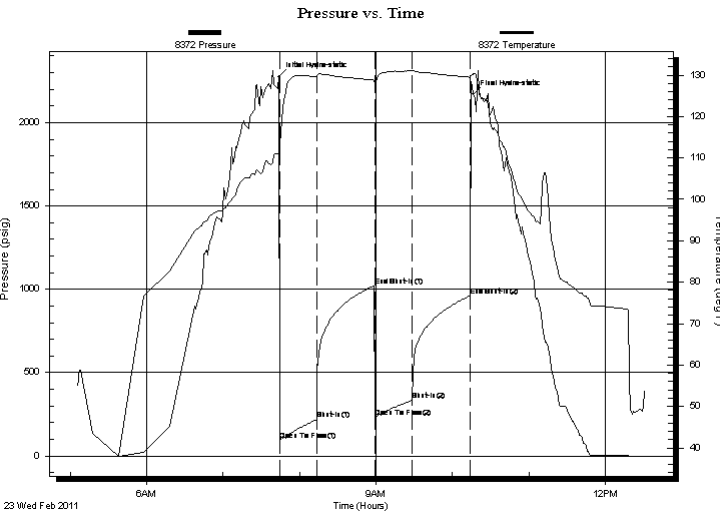
Pfaff-Toedman 1-24
24-16-23/Ness
Job Ticket: 41785 **DST#: 1**
Test Start: 2011.02.23 @ 05:05:54

GENERAL INFORMATION:

Formation: **Cherokee Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:44:23
Time Test Ended: 12:31:23
Interval: **4387.00 ft (KB) To 4430.00 ft (KB) (TVD)**
Total Depth: 4430.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41
Reference Elevations: 2447.00 ft (KB)
2439.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8372 Inside
Press @ Run Depth: 333.14 psig @ 4390.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.02.23 End Date: 2011.02.23 Last Calib.: 2011.02.23
Start Time: 05:05:54 End Time: 12:31:23 Time On Btm: 2011.02.23 @ 07:43:53
Time Off Btm: 2011.02.23 @ 10:16:23

TEST COMMENT: IFP - BOB 5 min
ISI - no blow back
FFP - BOB 9 min
FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.72	110.90	Initial Hydro-static
1	93.11	109.48	Open To Flow (1)
30	219.92	129.74	Shut-In(1)
75	1022.15	128.76	End Shut-In(1)
76	231.62	128.32	Open To Flow (2)
105	333.14	131.05	Shut-In(2)
150	961.82	129.48	End Shut-In(2)
153	2169.76	130.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.05
330.00	MW 95%W, 5%M	4.43
315.00	WM 10%W, 90%M	4.42

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Pfaff-Toedman 1-24

PO Box 372
Hays, Ks
67601

24-16-23/Ness

Job Ticket: 41785

DST#: 1

ATTN: Marc Dow ning

Test Start: 2011.02.23 @ 05:05:54

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:

32000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	MUD 100%	0.049
330.00	MW 95%W, 5%M	4.429
315.00	WM 10%W, 90%M	4.419

Total Length: 655.00 ft

Total Volume: 8.897 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

