



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

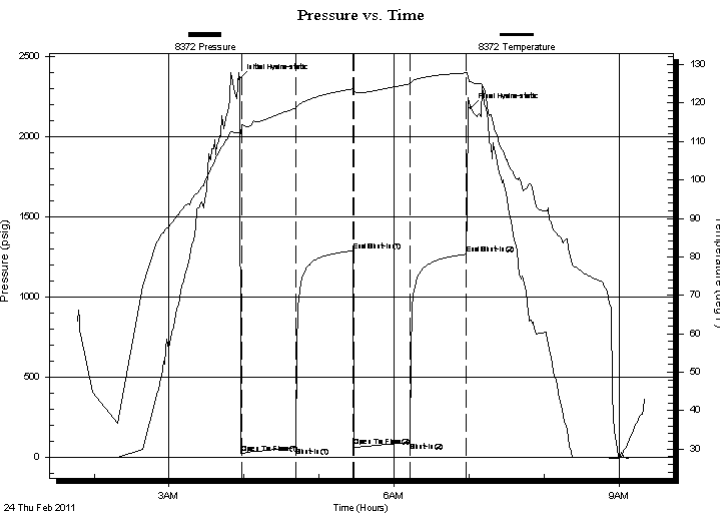
Pfaff-Toedman 1-24
24-16-23/Ness
 Job Ticket: 41786 **DST#: 2**
 Test Start: 2011.02.24 @ 01:46:51

GENERAL INFORMATION:

Formation: **Cong Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:57:50
 Time Test Ended: 09:20:20
 Interval: **4443.00 ft (KB) To 4460.00 ft (KB) (TVD)**
 Total Depth: 4551.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Straddle
 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: 94.82 psig @ 4445.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.02.24 End Date: 2011.02.24 Last Calib.: 2011.02.24
 Start Time: 01:46:51 End Time: 09:20:20 Time On Btm: 2011.02.24 @ 03:56:20
 Time Off Btm: 2011.02.24 @ 07:01:20

TEST COMMENT: IFP - weak to good blow - 1/2" - 7"
 ISI - no blow back
 FFP - weak to fair blow sur - 5 1/2"
 FSI - no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.73	112.15	Initial Hydro-static
2	25.47	114.31	Open To Flow (1)
45	62.37	118.78	Shut-In(1)
91	1288.11	123.72	End Shut-In(1)
92	67.50	123.08	Open To Flow (2)
136	94.82	125.00	Shut-In(2)
182	1266.73	127.85	End Shut-In(2)
185	2180.19	125.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	MW 90%W, 10%M	1.88

Gas Rates

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



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24-16-23/Ness

Job Ticket: 41786

DST#: 2

Test Start: 2011.02.24 @ 01:46:51

GENERAL INFORMATION:

Formation: **Cong Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:57:50

Time Test Ended: 09:20:20

Test Type: Conventional Straddle

Tester: Brian Fairbank

Unit No: 41

Interval: 4443.00 ft (KB) To 4460.00 ft (KB) (TVD)

Reference Elevations: 2447.00 ft (KB)

Total Depth: 4551.00 ft (KB) (TVD)

2439.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

Serial #: 8365 Outside

Press @RunDepth: psig @ 4445.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.24

End Date:

2011.02.24

Last Calib.:

2011.02.24

Start Time: 01:46:45

End Time:

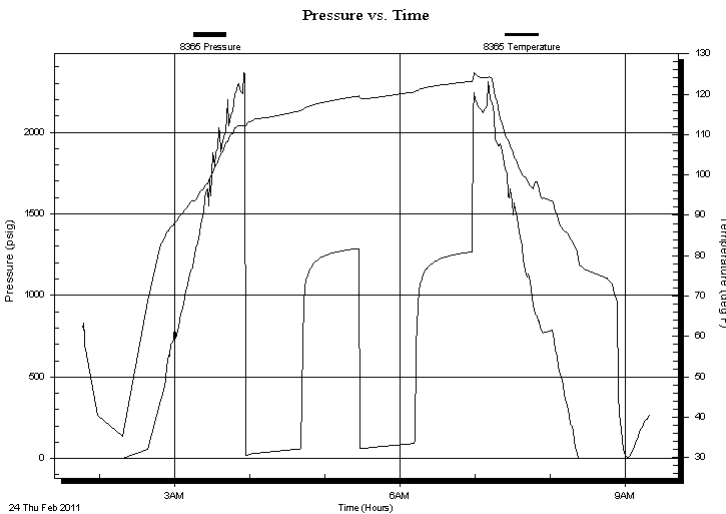
09:19:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP - weak to good blow - 1/2" - 7"
ISI - no blow back
FFP - weak to fair blow sur - 5 1/2"
FSI - no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
155.00	MW 90%W, 10%M	1.88

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

Pfaff-Toedman 1-24

PO Box 372
Hays, Ks
67601

24-16-23/Ness

Job Ticket: 41786

DST#: 2

ATTN: Marc Downing

Test Start: 2011.02.24 @ 01:46:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

41000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 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 bbl
155.00	MW 90%W, 10%M	1.883

Total Length: 155.00 ft

Total Volume: 1.883 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

