



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Ritchie Exploration Inc.
8100 E. 22nd st. N.
#700 Box 783188 Wichita Ks. 67278
ATTN: Ted Jochems

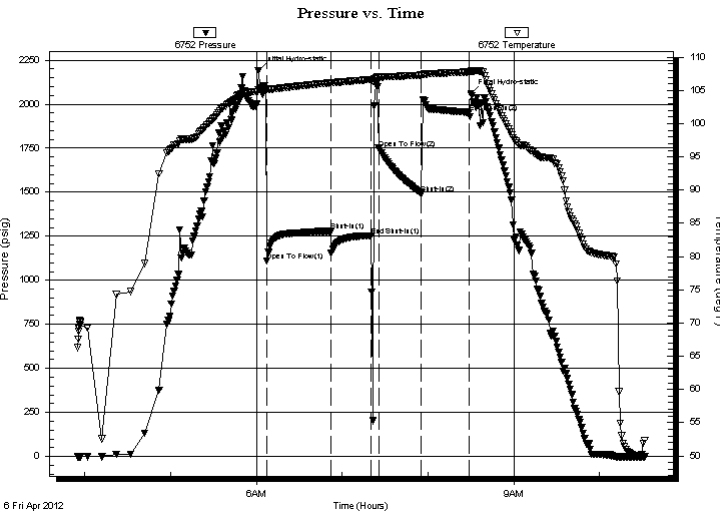
24 17s 35w Wichita Ks
Noonan #1
Job Ticket: 45598 **DST#: 2**
Test Start: 2012.04.06 @ 03:55:00

GENERAL INFORMATION:

Formation: **LKC-H,I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:07:30
Time Test Ended: 10:32:00
Interval: **4260.00 ft (KB) To 4324.00 ft (KB) (TVD)**
Total Depth: 4324.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Kreuzer Jr.
Unit No: 61
Reference Elevations: 3184.00 ft (KB)
3174.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6752 Inside
Press @ Run Depth: 1493.24 psig @ 4264.60 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.06 End Date: 2012.04.06 Last Calib.: 2012.04.06
Start Time: 03:55:05 End Time: 10:31:59 Time On Btm: 2012.04.06 @ 06:01:30
Time Off Btm: 2012.04.06 @ 08:30:00

TEST COMMENT: IF: Weak blow, Surface blow Died in 2 mins.
IS: No blow back over 30 mins.
FF: Flushed tool, No blow back over 30 mins.
FS!: Turned tool 5 times tool backlash turned tool 5 more times. No blow back over 30 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.54	105.12	Initial Hydro-static
6	1107.87	105.16	Open To Flow (1)
51	1278.97	106.16	Shut-In(1)
79	1253.46	106.66	End Shut-In(1)
84	1749.09	107.01	Open To Flow (2)
114	1493.24	107.32	Shut-In(2)
147	1953.50	107.80	End Shut-In(2)
149	2058.42	107.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	mud-100%	0.10

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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24 17s 35w Wichita Ks

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#700 Box 783188 Wichita Ks. 67278

Noonan #1

Job Ticket: 45598

DST#: 2

ATTN: Ted Jochems

Test Start: 2012.04.06 @ 03:55:00

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:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	mud-100%	0.098

Total Length: 7.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6752

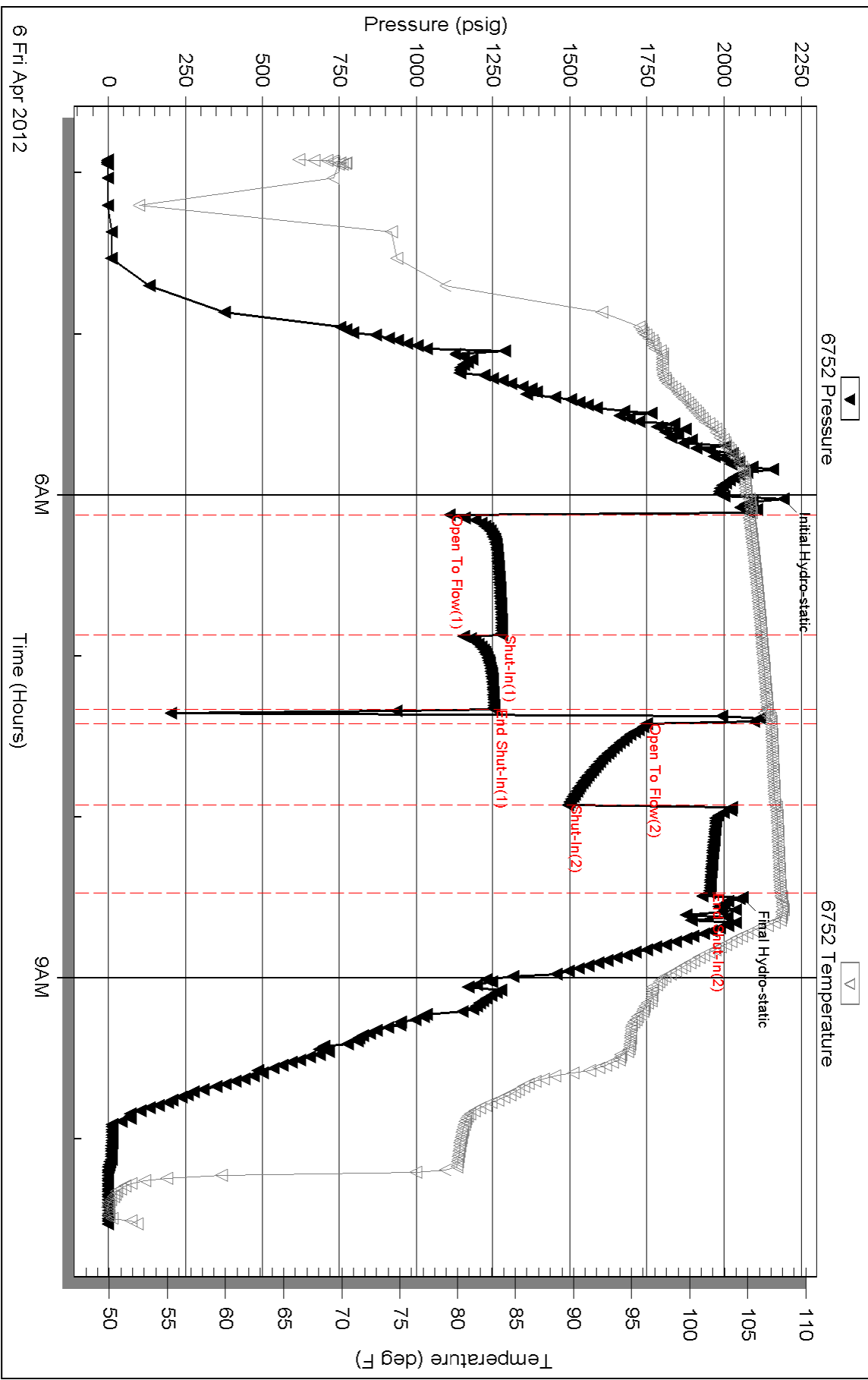
Inside

Ritchie Exploration Inc.

Noonan #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 45598

Printed: 2012.04.06 @ 16:06:14

Serial #: 6741

Outside Ritchie Exploration Inc.

Noonan #1

DST Test Number: 2

