



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

13-12s-23w

Po Box 1019
Hays Ks 67601

KD Unit 1-13

ATTN: Ron Nelson

Job Ticket: 44823

DST#: 2

Test Start: 2012.04.07 @ 09:40:22

GENERAL INFORMATION:

Formation: **Lansing-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:46:22

Time Test Ended: 17:07:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3767.00 ft (KB) To 3788.00 ft (KB) (TVD)

Reference Elevations: 2433.00 ft (KB)

Total Depth: 3788.00 ft (KB) (TVD)

2425.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

Press @ RunDepth: 90.83 psig @ 3770.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.07

End Date:

2012.04.07

Last Calib.:

2012.04.07

Start Time:

09:40:23

End Time:

17:06:52

Time On Btm:

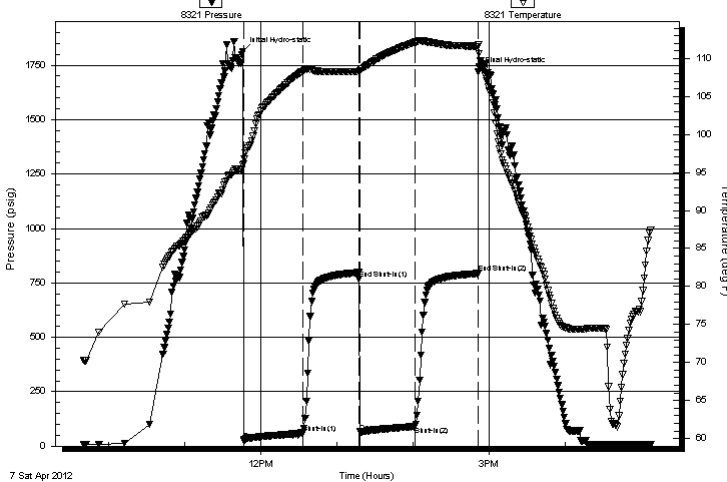
2012.04.07 @ 11:45:52

Time Off Btm:

2012.04.07 @ 14:51:22

TEST COMMENT: IFP-Good blow BOB in 24 min
ISI-Weak surface blow back built to 1/2 in
FFP-Good blow BOB in 24 min
FSI-Weak surface blow back built to 1 in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1812.36	95.96	Initial Hydro-static
1	26.29	96.10	Open To Flow (1)
47	61.37	108.29	Shut-In(1)
92	767.34	108.28	End Shut-In(1)
92	65.55	108.35	Open To Flow (2)
136	90.83	112.12	Shut-In(2)
185	793.29	111.58	End Shut-In(2)
186	1719.75	111.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCMW 10%O 20%M 70%W	0.60
63.00	HOCWM 30%O 10%W 60%M	0.88
20.00	Gassy Oil 25%G75%M	0.28
0.00	409-GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Po Box 1019
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Job Ticket: 44823

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.04.07 @ 09:40:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	OCMW 10%O 20%M 70%W	0.601
63.00	HOCWM 30%O 10%W 60%M	0.884
20.00	Gassy Oil 25%G75%M	0.281
0.00	409-GIP	0.000

Total Length: 146.00 ft

Total Volume: 1.766 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

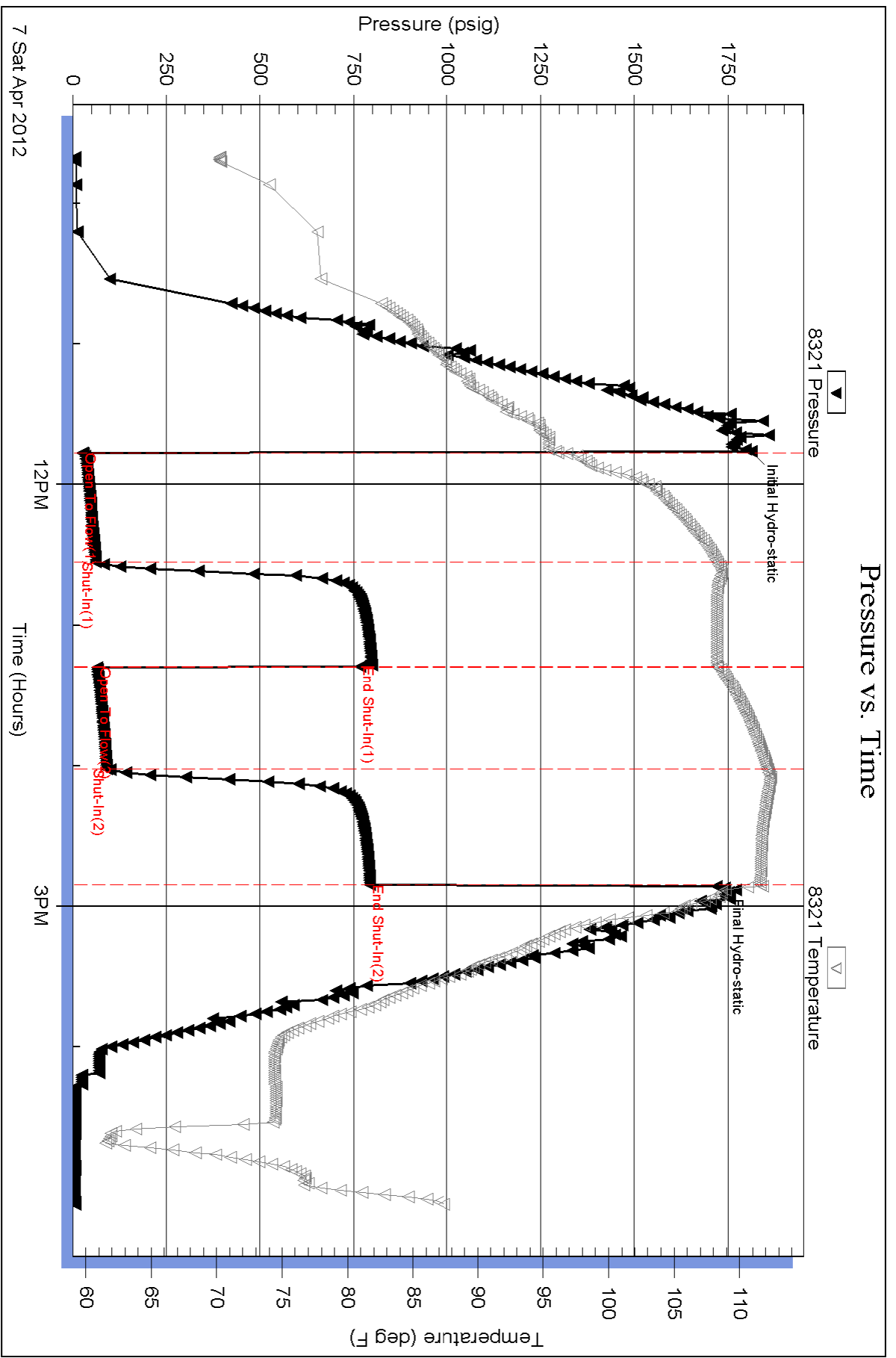
Serial #: 8321

Inside

Dow nging-Nelson Oil Co Inc

KD Unit 1-13

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 44823

Printed: 2012.04.07 @ 18:42:14

Serial #: 8737

Outside Dow nging-Nelson Oil Co Inc

KD Unit 1-13

DST Test Number: 2

