



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: 44824

DST#: 3

Test Start: 2012.04.09 @ 00:05:09

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:03:09

Time Test Ended: 07:18:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 4052.00 ft (KB) To 4095.00 ft (KB) (TVD)

Reference Elevations: 2433.00 ft (KB)

Total Depth: 4095.00 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 @ Run Depth: 110.67 psig @ 4056.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.09

End Date:

2012.04.09

Last Calib.:

2012.04.09

Start Time: 00:05:10

End Time:

07:18:09

Time On Btm:

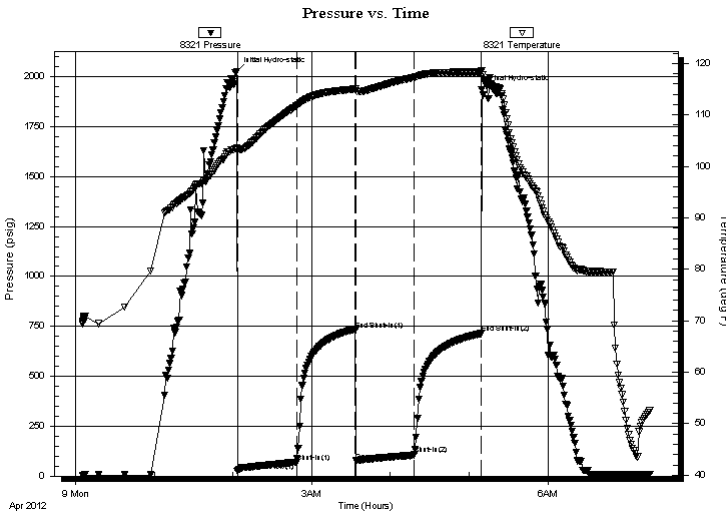
2012.04.09 @ 02:02:39

Time Off Btm:

2012.04.09 @ 05:09:39

TEST COMMENT: IFP-Good blow BOB in 44 min
ISI-Dead no blow back
FFP-Fair blow built to 8 in
FSI- Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.95	103.50	Initial Hydro-static
1	24.15	103.15	Open To Flow (1)
46	70.63	111.69	Shut-In(1)
91	731.06	115.00	End Shut-In(1)
91	76.11	114.67	Open To Flow (2)
136	110.67	117.29	Shut-In(2)
187	714.31	118.30	End Shut-In(2)
187	1934.02	118.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	SOCMW 5%O 35%M 60%W	1.49
53.00	VSOCWM 3%O 12%W 85%M	0.74
15.00	Gassy Oil 10%G 90%O	0.21

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
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FLUID SUMMARY

Downing-Nelson Oil Co Inc

13-12s-23w

Po Box 1019
Hays Ks 67601

KD Unit 1-13

Job Ticket: 44824

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.04.09 @ 00:05:09

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	SOCMW 5%O 35%M 60%W	1.485
53.00	VSOCWM 3%O 12%W 85%M	0.743
15.00	Gassy Oil 10%G 90%O	0.210

Total Length: 194.00 ft

Total Volume: 2.438 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

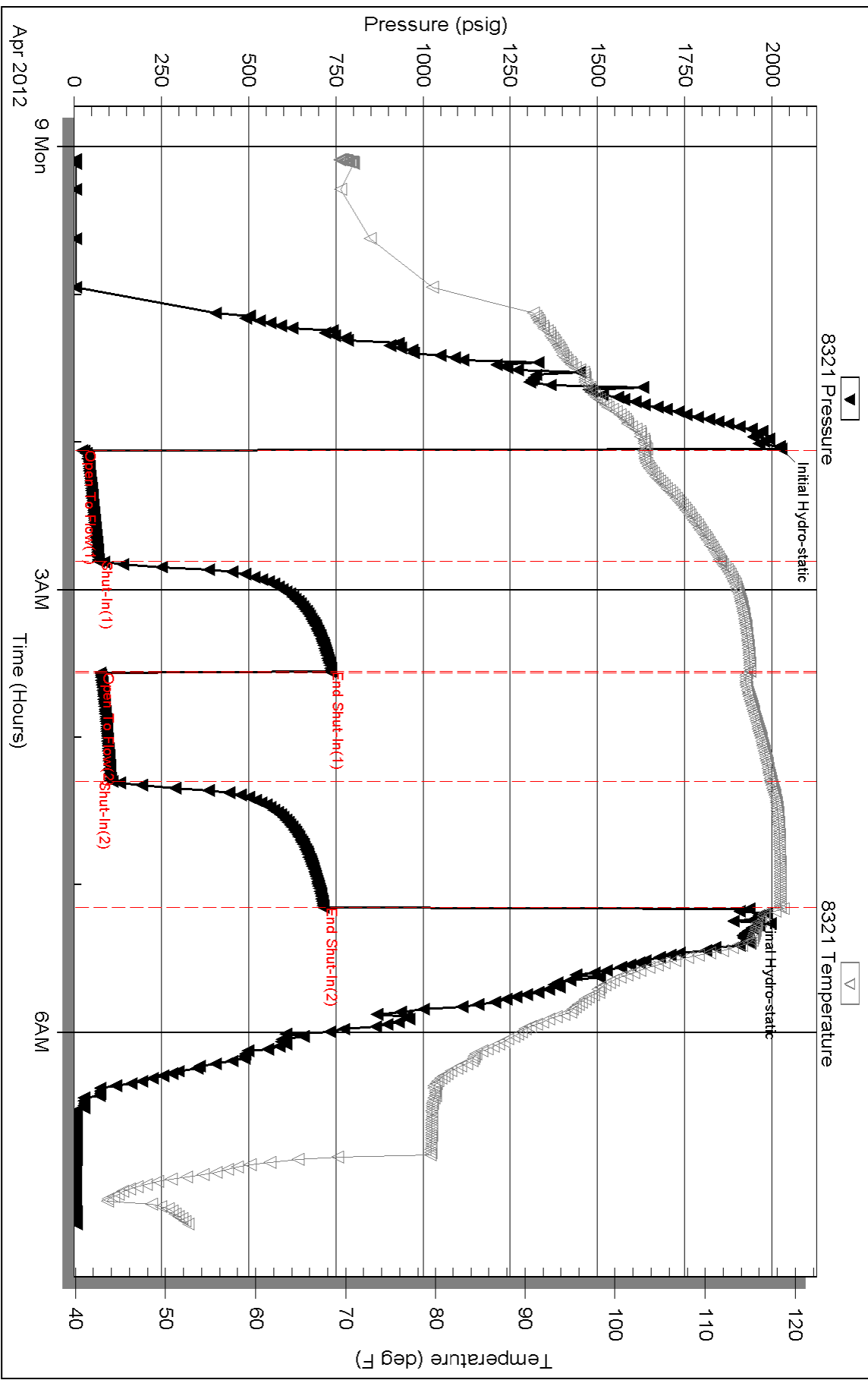
Inside

Dow nung-Nelson Oil Co Inc

KD Unit 1-13

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44824

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