



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co inc

17-20s-20w

Po Box 372
Hays Ks 67601

Showalter 1-17

ATTN: Ron Nelson

Job Ticket: 46248

DST#: 4

Test Start: 2012.01.12 @ 03:38:35

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:50:05

Time Test Ended: 11:39:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 4315.00 ft (KB) To 4324.00 ft (KB) (TVD)

Reference Elevations: 2187.00 ft (KB)

Total Depth: 4324.00 ft (KB) (TVD)

2179.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8321 Inside

Press @RunDepth: 172.79 psig @ 4317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.01.12 End Date: 2012.01.12

Last Calib.: 2012.01.12

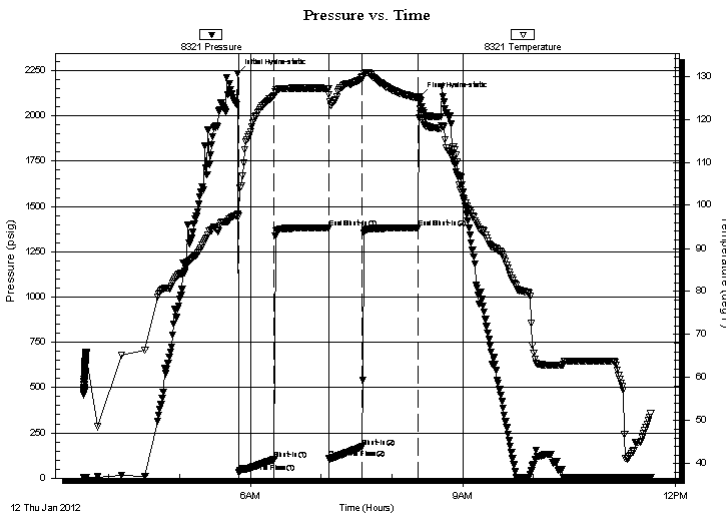
Start Time: 03:38:36 End Time: 11:39:05

Time On Btm: 2012.01.12 @ 05:49:05

Time Off Btm: 2012.01.12 @ 08:23:35

TEST COMMENT: IFP-Good blow BOB in 8 min
ISI-Weak surface blow back built to 3 3/4 in
FFP-Good low BOB in 10 min
FSI-Fair blow back built to 4 in

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.08	97.89	Initial Hydro-static
1	30.96	97.55	Open To Flow (1)
31	102.31	125.46	Shut-In(1)
77	1382.42	127.13	End Shut-In(1)
78	107.85	125.71	Open To Flow (2)
106	172.79	129.65	Shut-In(2)
153	1381.97	124.90	End Shut-In(2)
155	2108.08	122.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	HOCGMW 15%G20%M20%W45%O	1.49
63.00	GMCO 20%G5%M75%O	0.88
239.00	Gassy Oil 10%G90%O	3.35
0.00	378-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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DST#: 4

ATTN: Ron Nelson

Test Start: 2012.01.12 @ 03:38:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	HOCGMW 15%G20%M20%W45%O	1.485
63.00	GMCO 20%G5%M75%O	0.884
239.00	Gassy Oil 10%G90%O	3.353
0.00	378-GIP	0.000

Total Length: 428.00 ft

Total Volume: 5.722 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

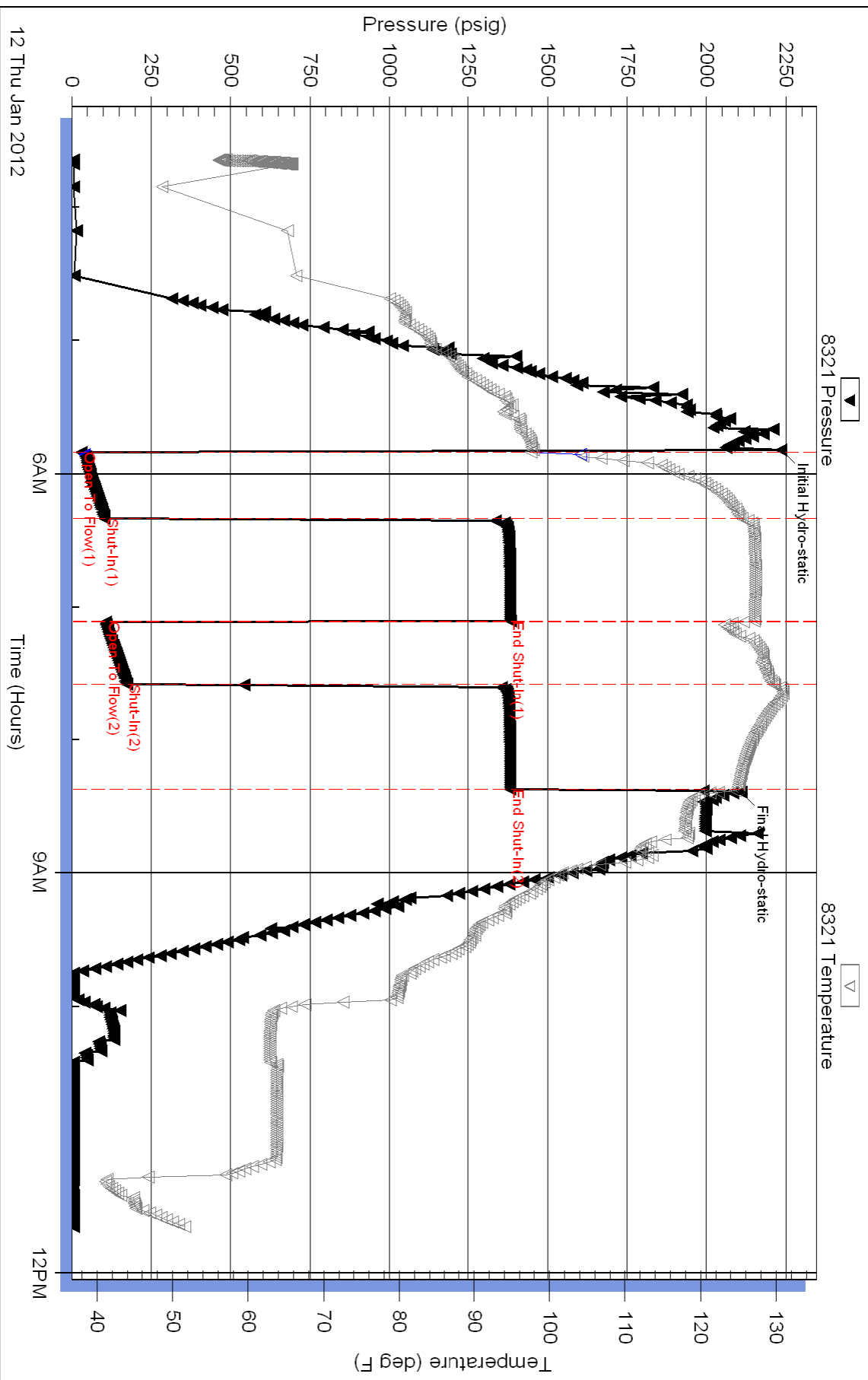
Inside

Downing Nelson Oil Co inc

Show after 1-17

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46248

Printed: 2012.01.12 @ 13:34:52