



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Cecelia Brull 1-33

P.O. Box 372
Hays, Ks 67601

33/15S/19W-ELLIS

Job Ticket: 41325

DST#: 3

ATTN: Marc Dow ning

Test Start: 2011.01.08 @ 13:41:15

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:13:15

Time Test Ended: 20:03:45

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: 3365.00 ft (KB) To 3390.00 ft (KB) (TVD)

Reference Elevations: 2044.00 ft (KB)

Total Depth: 3390.00 ft (KB) (TVD)

2036.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 175.99 psig @ 3366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.01.08

End Date:

2011.01.08

Last Calib.:

2011.01.08

Start Time:

13:41:16

End Time:

20:03:45

Time On Btm:

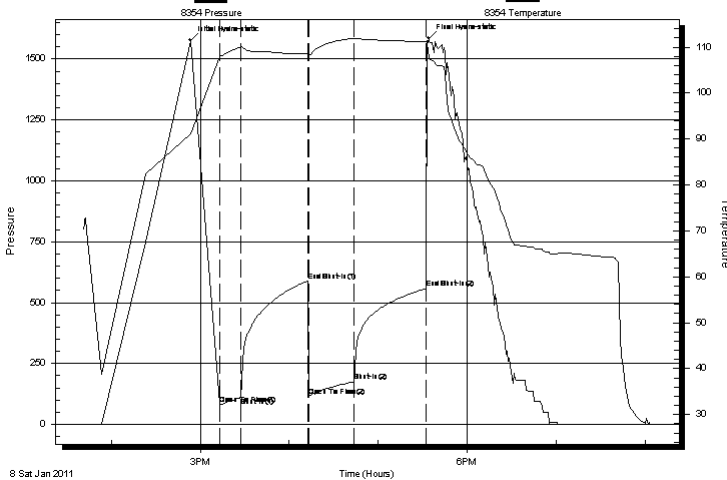
2011.01.08 @ 14:53:15

Time Off Btm:

2011.01.08 @ 17:34:00

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes.
ISI-Return @ 15 seconds. BOB in 30 minutes.
FF-Strong building blow . BOB in 2 minutes.
FSI-Return @ 15 seconds. BOB in 24 minutes.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1577.38	91.19	Initial Hydro-static
20	80.83	107.85	Open To Flow (1)
34	110.21	109.94	Shut-In(1)
80	590.41	108.56	End Shut-In(1)
81	114.15	108.21	Open To Flow (2)
111	175.99	111.87	Shut-In(2)
159	558.20	111.30	End Shut-In(2)
161	1584.51	108.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	70%Water/20%Oil/10%Mud	3.20
62.00	60%Oil/30%Mud/10%Gas	0.87
68.00	90%Oil/10%Gas	0.95
0.00	1730- G.I.P.	0.00

Gas Rates

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



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FLUID SUMMARY

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DST#: 3

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

175000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.13 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
248.00	70%Water/20%Oil/10%Mud	3.196
62.00	60%Oil/30%Mud/10%Gas	0.870
68.00	90%Oil/10%Gas	0.954
0.00	1730- G.I.P.	0.000

Total Length: 378.00 ft

Total Volume: 5.020 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

