



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Luea #4

PO Box 1019
Hays Ks 67601

1-14-21, Trego, Ks

ATTN: Marc Dow ning

Job Ticket: 44277

DST#: 3

Test Start: 2011.08.01 @ 06:55:02

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:09:02

Time Test Ended: 13:46:32

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3609.00 ft (KB) To 3626.00 ft (KB) (TVD)

Reference Elevations: 2260.00 ft (KB)

Total Depth: 3626.00 ft (KB) (TVD)

2252.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 67.48 psig @ 3613.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.08.01 End Date: 2011.08.01

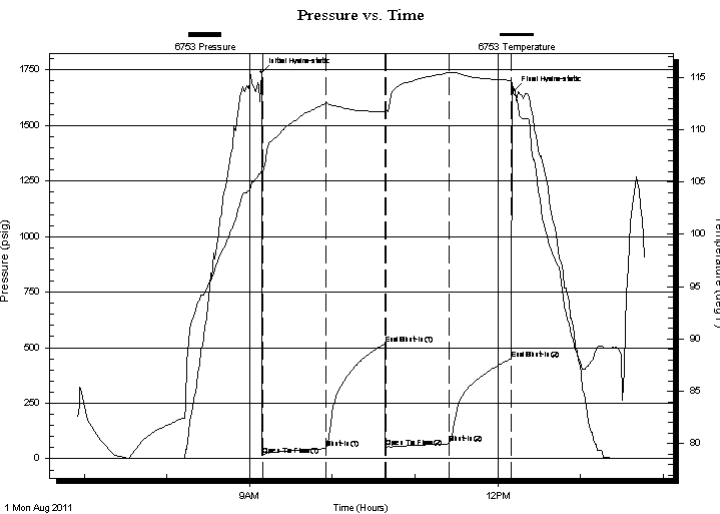
Last Calib.: 2011.08.01

Start Time: 06:55:07 End Time: 13:46:31

Time On Btm: 2011.08.01 @ 09:08:32

Time Off Btm: 2011.08.01 @ 12:12:02

TEST COMMENT: IF-3.75in blow
ISI-No blow
FF-3in blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.08	106.07	Initial Hydro-static
1	16.00	105.67	Open To Flow (1)
47	46.23	112.55	Shut-In(1)
90	516.11	111.78	End Shut-In(1)
91	51.23	111.85	Open To Flow (2)
136	67.48	115.46	Shut-In(2)
181	449.94	114.74	End Shut-In(2)
184	1657.59	113.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Free Oil	0.00
114.00	MCW 20%M 80%W	1.33

Gas Rates

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



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FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

Luea #4

PO Box 1019
Hays Ks 67601

1-14-21,Trego,Ks

Job Ticket: 44277

DST#: 3

ATTN: Marc Dow ning

Test Start: 2011.08.01 @ 06:55:02

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:

90000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	Free Oil	0.005
114.00	MCW 20%M 80%W	1.335

Total Length: 115.00 ft

Total Volume: 1.340 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .06

