



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

FHSU 1-7

PO Box 1019
113 w est 13th
Hays Ks 67601
ATTN: Ron Nelson

7-14-18w, Ellis, Ks

Job Ticket: 34333

DST#: 2

Test Start: 2011.06.05 @ 02:50:30

GENERAL INFORMATION:

Formation: **KC "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:35:30

Time Test Ended: 09:09:30

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3487.00 ft (KB) To 3555.00 ft (KB) (TVD)

Reference Elevations: 2071.00 ft (KB)

Total Depth: 3555.00 ft (KB) (TVD)

2063.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Outside

Press @ Run Depth: 130.96 psig @ 3488.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.06.05

End Date: 2011.06.05

Last Calib.: 2011.06.05

Start Time: 02:50:35

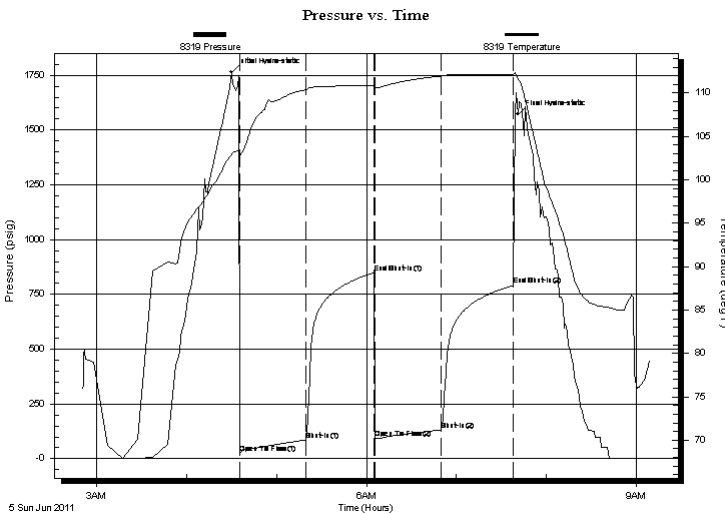
End Time: 09:09:29

Time On Btm: 2011.06.05 @ 04:30:00

Time Off Btm: 2011.06.05 @ 07:41:00

TEST COMMENT: IF-BOB in 35min
ISI-3in blow
FF-BOB in 31min
FSI- 2.5in blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.89	102.85	Initial Hydro-static
6	22.43	102.88	Open To Flow (1)
50	85.47	110.41	Shut-In(1)
95	848.32	110.87	End Shut-In(1)
96	92.93	110.66	Open To Flow (2)
140	130.96	111.95	Shut-In(2)
188	792.03	112.20	End Shut-In(2)
191	1571.40	111.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSMCW 95%W 5%M	0.57
60.00	VSOMCW 2%O 58%W 40%M	0.84
100.00	VSWGOCM 10%G 10%O 5%W 75%M	1.40
20.00	SGO	0.28
0.00	360ft GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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DST#: 2

Test Start: 2011.06.05 @ 02:50:30

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:

100000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	VSMCW 95%W 5%M	0.568
60.00	VSOMCW 2%O 58%W 40%M	0.842
100.00	VSWGOCM 10%G 10%O 5%W 75%M	1.403
20.00	SGO	0.281
0.00	360ft GIP	0.000

Total Length: 240.00 ft

Total Volume: 3.094 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

