



**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: 34336

**DST#: 5**

Test Start: 2011.06.06 @ 22:05:07

## GENERAL INFORMATION:

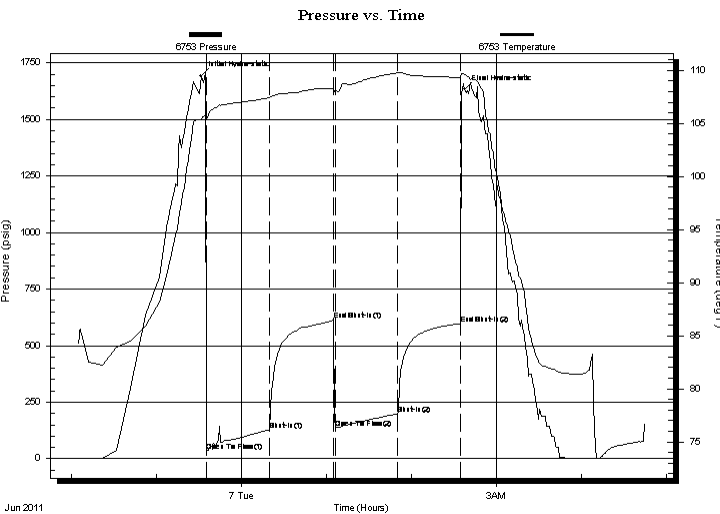
Formation: **KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:35:37  
 Time Test Ended: 04:45:07  
 Interval: **3346.00 ft (KB) To 3406.00 ft (KB) (TVD)**  
 Total Depth: 3793.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle  
 Tester: Brett Dickinson  
 Unit No: 47  
 Reference Elevations: 2071.00 ft (KB)  
 2063.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 6753

**Outside**

Press @ Run Depth: 197.11 psig @ 3382.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.06.06 End Date: 2011.06.07 Last Calib.: 2011.06.07  
 Start Time: 22:05:12 End Time: 04:45:06 Time On Btm: 2011.06.06 @ 23:31:37  
 Time Off Btm: 2011.06.07 @ 02:37:37

TEST COMMENT: IF-7in blow  
 IS-1/2in blow  
 FF-BOB in 29min  
 FS-1 1/4in blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.12	105.39	Initial Hydro-static
4	32.85	105.32	Open To Flow (1)
48	126.73	107.43	Shut-In(1)
94	614.35	108.26	End Shut-In(1)
95	133.38	108.09	Open To Flow (2)
139	197.11	109.74	Shut-In(2)
183	597.50	109.32	End Shut-In(2)
186	1631.96	109.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	VSMCW 95%W 5%M	1.41
120.00	VSOWCM 2%O 15%W 83%M	1.68
120.00	SOCM 10%O 90%M	1.68
20.00	MCO 5%G 80%O 15%M	0.28
0.00	240ft GIP	0.00

## Gas Rates

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



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ATTN: Ron Nelson

**7-14-18w, Ellis, Ks**

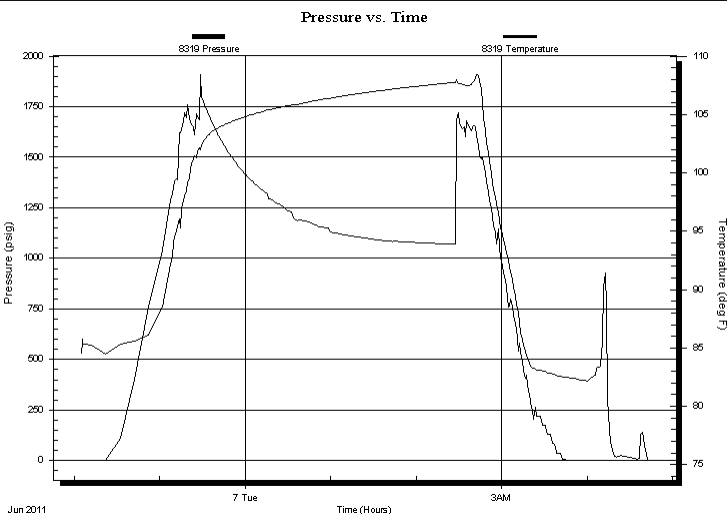
Job Ticket: 34336      **DST#: 5**  
Test Start: 2011.06.06 @ 22:05:07

**GENERAL INFORMATION:**

Formation: <b>KC</b>					
Deviated:      No      Whipstock:                      ft (KB)				Test Type:      Conventional Straddle	
Time Tool Opened: 23:35:37				Tester:      Brett Dickinson	
Time Test Ended: 04:45:07				Unit No:      47	
<b>Interval:      3346.00 ft (KB) To      3406.00 ft (KB) (TVD)</b>				Reference Elevations:      2071.00 ft (KB)	
Total Depth:      3793.00 ft (KB) (TVD)				2063.00 ft (CF)	
Hole Diameter:      7.88 inches	Hole Condition:      Fair			KB to GR/CF:      8.00 ft	

<b>Serial #: 8319</b>	<b>Below (Straddle)</b>				
Press @ Run Depth:                      psig @      3411.00 ft (KB)				Capacity:                      8000.00 psig	
Start Date:                      2011.06.06	End Date:                      2011.06.07			Last Calib.:                      2011.06.07	
Start Time:                      22:05:11	End Time:                      04:42:35			Time On Btm:	
				Time Off Btm:	

**TEST COMMENT:** IF-7in blow  
IS-1/2in blow  
FF-BOB in 29min  
FS-1 1/4in blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	VSMCW 95%W 5%M	1.41
120.00	VSO WCM 2%O 15%W 83%M	1.68
120.00	SOCM 10%O 90%M	1.68
20.00	MCO 5%G 80%O 15%M	0.28
0.00	240ft GIP	0.00

**Gas Rates**

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc.

**FHSU 1-7**

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

**7-14-18w, Ellis, Ks**

Job Ticket: 34336

**DST#: 5**

Test Start: 2011.06.06 @ 22:05:07

## 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:

85000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in<sup>3</sup>

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 bbl
120.00	VSMCW 95%W 5%M	1.410
120.00	VSOWCM 2%O 15%W 83%M	1.683
120.00	SOCM 10%O 90%M	1.683
20.00	MCO 5%G 80%O 15%M	0.281
0.00	240ft GIP	0.000

Total Length: 380.00 ft

Total Volume: 5.057 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

