

**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

**Showalter-Vandenburg Unit 1-17**

PO Box 1019  
Hays, Ks  
67601  
ATTN: Marc Downing

**17-20-20 Pawnee, Ks**

Job Ticket: 43412      **DST#: 2**  
Test Start: 2011.06.22 @ 02:26:03

## GENERAL INFORMATION:

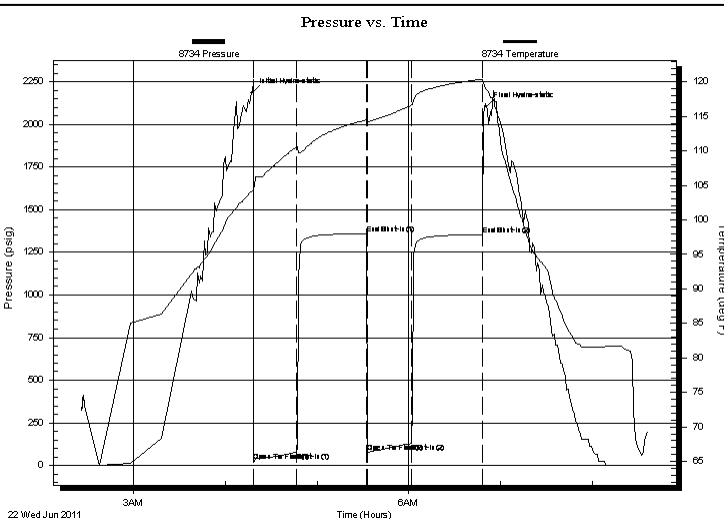
Formation: **Osage**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:18:33  
 Time Test Ended: 08:36:03  
 Interval: **4349.00 ft (KB) To 4365.00 ft (KB) (TVD)**  
 Total Depth: 4365.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Brian Fairbank  
 Unit No: 41  
 Reference Elevations: 2228.00 ft (KB)  
 2221.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 8734

**Outside**

Press @ Run Depth: 129.14 psig @ 4352.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.06.22      End Date: 2011.06.22      Last Calib.: 2011.06.22  
 Start Time: 02:26:04      End Time: 08:36:03      Time On Btm: 2011.06.22 @ 04:17:33  
 Time Off Btm: 2011.06.22 @ 06:50:33

**TEST COMMENT:** IFP - BOB 10 1/2 min  
 ISI - 1" blow back - died 12 min  
 FFP - BOB 11 min  
 FSI - 3 1/2" blow back- died 29 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.67	104.25	Initial Hydro-static
1	25.52	104.42	Open To Flow (1)
29	76.94	110.52	Shut-In(1)
75	1360.16	114.47	End Shut-In(1)
76	79.32	114.11	Open To Flow (2)
104	129.14	116.64	Shut-In(2)
151	1355.08	120.37	End Shut-In(2)
153	2105.50	118.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	OCM 15%O, 85%M	0.84
235.00	FREE OIL 95%O, 5%M	3.30
0.00	280' GIP	0.00

## Gas Rates

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



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**FLUID SUMMARY**

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## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	OCM 15%O, 85%M	0.840
235.00	FREE OIL 95%O, 5%M	3.296
0.00	280' GIP	0.000

Total Length: 315.00 ft      Total Volume: 4.136 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

