



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning-Nelson  
P.O. Box 1019 113 W. 13th  
Hays, KS. 67601  
ATTN: Al Dow ning

**Sunley #1-13**  
**13/14/19/Ellis-KS**  
Job Ticket: 041106 **DST#: 1**  
Test Start: 2011.05.02 @ 18:55:00

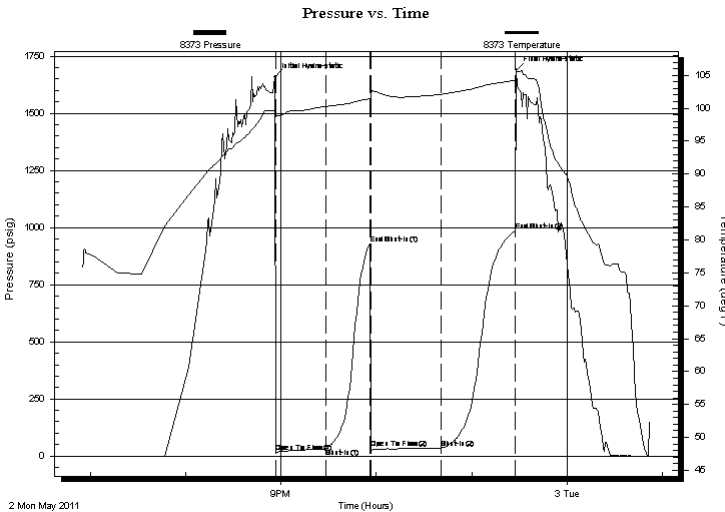
## GENERAL INFORMATION:

Formation: **Plattsmouth**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:56:30  
Time Test Ended: 00:52:00  
Interval: **3366.00 ft (KB) To 3400.00 ft (KB) (TVD)**  
Total Depth: 3400.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Kevin Mack  
Unit No: 35  
Reference Elevations: 2160.00 ft (KB)  
2154.00 ft (CF)  
KB to GR/CF: 6.00 ft

**Serial #: 8373 Inside**  
Press @ Run Depth: 35.46 psig @ 3367.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.05.02 End Date: 2011.05.03 Last Calib.: 2011.05.03  
Start Time: 18:55:05 End Time: 00:51:59 Time On Btm: 2011.05.02 @ 20:56:15  
Time Off Btm: 2011.05.02 @ 23:28:00

**TEST COMMENT:** IF: Surface blow built to 1 1/4"  
IS: No Return  
FF: 1/4" Blow built to 3 1/2"  
FS: No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.69	99.55	Initial Hydro-static
1	17.32	98.88	Open To Flow (1)
32	32.71	100.27	Shut-In(1)
60	929.10	101.43	End Shut-In(1)
60	33.17	101.29	Open To Flow (2)
105	35.46	102.14	Shut-In(2)
151	984.37	104.23	End Shut-In(2)
152	1687.96	105.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	10' GIP	0.00
50.00	OSM (oil spots) 100M	0.43

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson

**Sunley #1-13**

P.O. Box 1019 113 W. 13th  
Hays, KS. 67601

**13/14/19/Ellis-KS**

Job Ticket: 041106

**DST#: 1**

ATTN: Al Dow ning

Test Start: 2011.05.02 @ 18:55:00

## 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:

ppm

Viscosity: 77.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	10' GIP	0.000
50.00	OSM (oil spots) 100M	0.428

Total Length: 50.00 ft      Total Volume: 0.428 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

