



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Noble Petroleum, Inc.

**33/18s/2e/Marion**

8918 W. 21st N.  
Suite 200 #304  
Wichita Ks, 67205-1881  
ATTN: Frank Mize

**Scully #1**

Job Ticket: 60464

**DST#: 1**

Test Start: 2014.10.04 @ 23:25:00

## GENERAL INFORMATION:

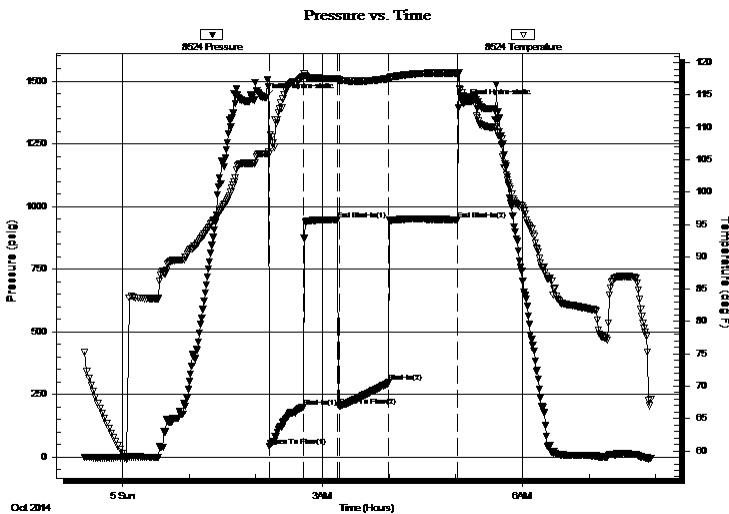
Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:12:30  
 Time Test Ended: 07:55:30  
 Interval: **2912.00 ft (KB) To 2938.00 ft (KB) (TVD)**  
 Total Depth: 2938.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: S3/183/Great Bend  
 Reference Elevations: 1382.00 ft (KB)  
 1373.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8524**

**Inside**

Press @ Run Depth: 297.47 psig @ 2934.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.10.04 End Date: 2014.10.05 Last Calib.: 2014.10.05  
 Start Time: 23:26:00 End Time: 07:55:30 Time On Btm: 2014.10.05 @ 02:08:30  
 Time Off Btm: 2014.10.05 @ 05:06:30

**TEST COMMENT:** 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket in 13 minutes.  
 1st Shut In/ 30 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 14 minutes. and 10 seconds.  
 2nd Shut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

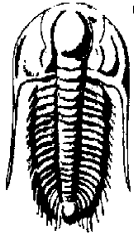
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1434.88         | 105.93       | Initial Hydro-static |
| 4           | 42.73           | 105.97       | Open To Flow (1)     |
| 34          | 199.46          | 117.79       | Shut-In(1)           |
| 65          | 947.63          | 117.52       | End Shut-In(1)       |
| 67          | 204.69          | 117.32       | Open To Flow (2)     |
| 111         | 297.47          | 117.53       | Shut-In(2)           |
| 174         | 947.87          | 118.39       | End Shut-In(2)       |
| 178         | 1410.66         | 114.83       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 189.00      | Muddy w ater        | 0.93         |
| 0.00        | 25% mud, 75% w ater | 0.00         |
| 252.00      | Muddy w ater        | 2.53         |
| 0.00        | 20% mud, 80% w ater | 0.00         |
| 219.00      | Muddy w ater        | 3.07         |
| 0.00        | 5% mud, 95% w ater  | 0.00         |

## Gas Rates

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



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**FLUID SUMMARY**

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ATTN: Frank Mize

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**DST#: 1**

Test Start: 2014.10.04 @ 23:25:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 39.00 sec/qt

Water Loss: 12.39 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 770.00 ppm

Filter Cake: 4.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 24000 ppm

## Recovery Information

Recovery Table

| Length<br>ft | Description                      | Volume<br>bbl |
|--------------|----------------------------------|---------------|
| 189.00       | Muddy w ater                     | 0.929         |
| 0.00         | 25% mud, 75% w ater              | 0.000         |
| 252.00       | Muddy w ater                     | 2.529         |
| 0.00         | 20% mud, 80% w ater              | 0.000         |
| 219.00       | Muddy w ater                     | 3.072         |
| 0.00         | 5% mud, 95% w ater               | 0.000         |
| 0.00         | resist recov. .21 at 50 degrees. | 0.000         |

Total Length: 660.00 ft      Total Volume: 6.530 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

