



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**Vandenberg-Saxton #1-18**

P O Box 372  
Hays Ks 67601-0372

**18-20s-20w Pawnee**

ATTN: Ron Nelson

Job Ticket: 41029

**DST#: 3**

Test Start: 2010.11.05 @ 10:18:58

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:53

Time Test Ended: 18:04:22

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

**Interval: 4352.00 ft (KB) To 4368.00 ft (KB) (TVD)**

Reference Elevations: 2229.00 ft (KB)

Total Depth: 4368.00 ft (KB) (TVD)

2221.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 185.28 psig @ 4353.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.11.05

End Date:

2010.11.05

Last Calib.: 2010.11.05

Start Time: 10:18:58

End Time:

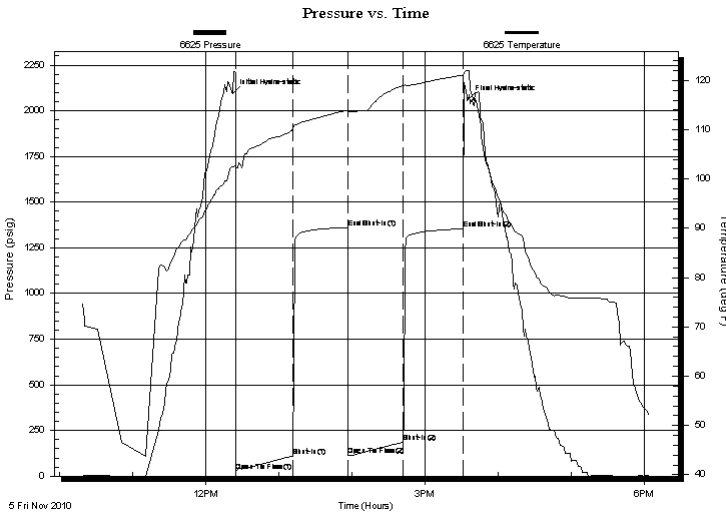
18:04:22

Time On Btm: 2010.11.05 @ 12:22:23

Time Off Btm: 2010.11.05 @ 15:35:22

**TEST COMMENT:** IFP-w k to strg in 19 min  
ISIP-1"bl bk  
FFP-w k to strg in 35 min  
FSIP-1"bl bk

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2095.59         | 102.49       | Initial Hydro-static |
| 3           | 28.07           | 102.32       | Open To Flow (1)     |
| 49          | 110.18          | 110.20       | Shut-In(1)           |
| 94          | 1360.79         | 113.98       | End Shut-In(1)       |
| 95          | 114.25          | 113.72       | Open To Flow (2)     |
| 140         | 185.28          | 118.94       | Shut-In(2)           |
| 189         | 1353.70         | 121.07       | End Shut-In(2)       |
| 193         | 2061.69         | 122.05       | Final Hydro-static   |

## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 0.00        | 465'GIP          | 0.00         |
| 95.00       | MGO 10%G30%M60%O | 1.06         |
| 372.00      | CO               | 5.22         |
|             |                  |              |
|             |                  |              |

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc

**Vandenberg-Saxton #1-18**

P O Box 372  
Hays Ks 67601-0372

**18-20s-20w Pawnee**

Job Ticket: 41029 **DST#: 3**

ATTN: Ron Nelson

Test Start: 2010.11.05 @ 10:18:58

## Mud and Cushion Information

|                                  |                            |                     |
|----------------------------------|----------------------------|---------------------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API: 36 deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: ppm |
| Viscosity: 52.00 sec/qt          | Cushion Volume: bbl        |                     |
| Water Loss: 7.98 in <sup>3</sup> | Gas Cushion Type:          |                     |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                     |
| Salinity: 1600.00 ppm            |                            |                     |
| Filter Cake: 1.00 inches         |                            |                     |

## Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 0.00         | 465'GIP          | 0.000         |
| 95.00        | MGO 10%G30%M60%O | 1.059         |
| 372.00       | CO               | 5.218         |

Total Length: 467.00 ft      Total Volume: 6.277 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

