



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Hess Oil Company  
P O Box 1009  
McPherson Ks 67460-1009  
ATTN: Bryan Hess

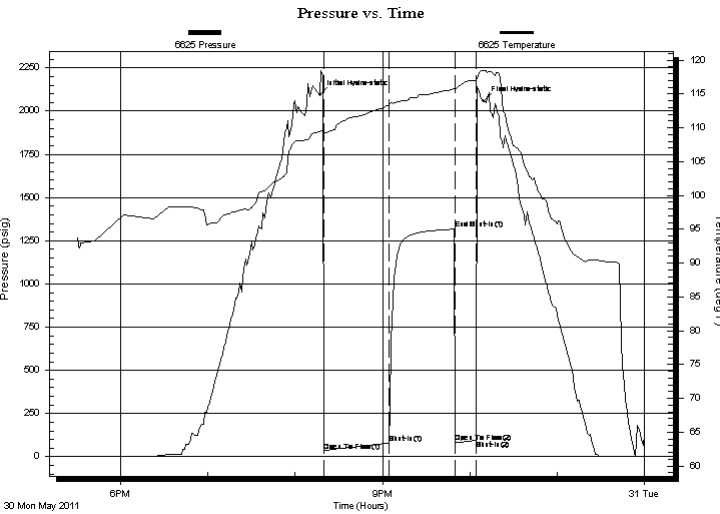
**30-17s-22w Ness**  
**Pamela #1**  
Job Ticket: 43474      **DST#: 2**  
Test Start: 2011.05.30 @ 17:30:35

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 20:19:30  
Time Test Ended: 23:59:59  
Interval: **4298.00 ft (KB) To 4358.00 ft (KB) (TVD)**  
Total Depth: 4358.00 ft (KB) (TVD)  
Hole Diameter: 7.85 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Ray Schwager  
Unit No: 42  
Reference Elevations: 2325.00 ft (KB)  
2320.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6625      Inside**  
Press @ Run Depth: 78.65 psig @ 4300.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2011.05.30      End Date: 2011.05.30      Last Calib.: 2011.05.31  
Start Time: 17:30:35      End Time: 23:59:59      Time On Btm: 2011.05.30 @ 20:17:00  
Time Off Btm: 2011.05.30 @ 22:09:29

TEST COMMENT: 45-IFP-surface to 1/8"bl  
45-ISIP-no bl  
15-FFP-no bl  
pull tool



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2094.84         | 109.46       | Initial Hydro-static |
| 3           | 34.38           | 109.15       | Open To Flow (1)     |
| 48          | 78.65           | 113.37       | Shut-In(1)           |
| 93          | 1316.58         | 115.78       | End Shut-In(1)       |
| 93          | 82.72           | 115.68       | Open To Flow (2)     |
| 107         | 95.00           | 117.00       | Shut-In(2)           |
| 113         | 2057.75         | 118.48       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 140.00      | MW 45%M55%W | 0.69         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

## 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:        | deg API   |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | 27000 ppm |
| Viscosity: 50.00 sec/qt          | Cushion Volume: bbl        |                 |           |
| Water Loss: 9.74 in <sup>3</sup> | Gas Cushion Type:          |                 |           |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |           |
| Salinity: 4500.00 ppm            |                            |                 |           |
| Filter Cake: 1.00 inches         |                            |                 |           |

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 140.00       | MW 45%M55%W | 0.688         |

Total Length: 140.00 ft      Total Volume: 0.688 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .25@70F

### Pressure vs. Time

