



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Robert F. Hembree  
PO Box 542  
Ness City, KS 67560  
ATTN: Kurt Talbott

**12-20s-24w Ness co.**  
**Petersilie #5**  
Job Ticket: 57329 **DST#: 1**  
Test Start: 2014.06.02 @ 07:45:00

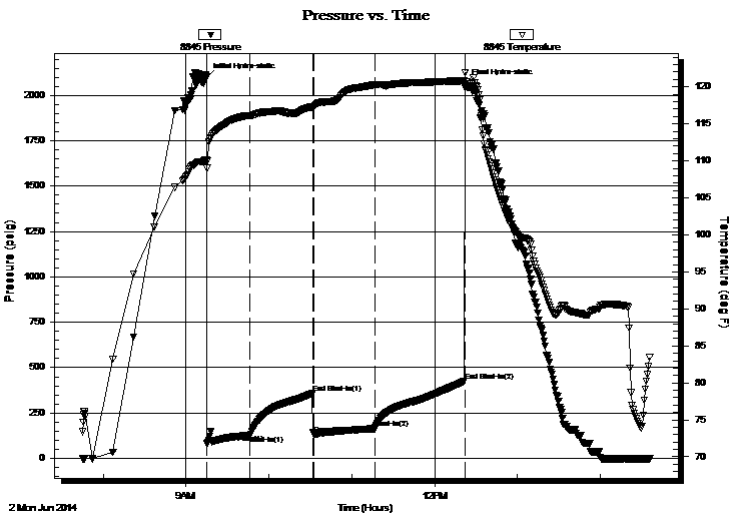
## GENERAL INFORMATION:

Formation: **Fort Scott**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 09:15:15  
Time Test Ended: 14:36:15  
Interval: **4270.00 ft (KB) To 4335.00 ft (KB) (TVD)**  
Total Depth: 4335.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Samuel Esparza  
Unit No: 71  
Reference Elevations: 2329.00 ft (KB)  
2322.00 ft (CF)  
KB to GR/CF: 7.00 ft

**Serial #: 8845 Inside**  
Press@RunDepth: 163.17 psig @ 4271.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.06.02 End Date: 2014.06.02 Last Calib.: 2014.06.02  
Start Time: 07:45:05 End Time: 14:36:14 Time On Btm: 2014.06.02 @ 09:15:00  
Time Off Btm: 2014.06.02 @ 12:22:00

TEST COMMENT: IF: BOB @ 1 min.  
IS: No Return.  
FF: BOB @ 3 min.  
FS: No Return.

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2097.07         | 110.18       | Initial Hydro-static |
| 1           | 82.09           | 109.00       | Open To Flow (1)     |
| 32          | 128.04          | 116.11       | Shut-In(1)           |
| 77          | 357.24          | 117.29       | End Shut-In(1)       |
| 78          | 134.06          | 117.25       | Open To Flow (2)     |
| 122         | 163.17          | 120.27       | Shut-In(2)           |
| 187         | 425.49          | 120.84       | End Shut-In(2)       |
| 187         | 2062.41         | 121.85       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                   | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 180.00      | GOWCM 35g 10o 10w 45m         | 2.52         |
| 145.00      | GWCM ( Oil Spots ) 10g 5w 85m | 2.03         |
| 0.00        | 600' GIP                      | 0.00         |
|             |                               |              |
|             |                               |              |

## Gas Rates

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



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**FLUID SUMMARY**

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**12-20s-24w Ness co.**  
**Petersilie #5**  
Job Ticket: 57329      **DST#: 1**  
Test Start: 2014.06.02 @ 07:45:00

## 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: 56.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 9.59 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: 0.00 ohm.m          | Gas Cushion Pressure: psig |                 |         |
| Salinity: 3000.00 ppm            |                            |                 |         |
| Filter Cake: 1.00 inches         |                            |                 |         |

## Recovery Information

Recovery Table

| Length<br>ft | Description                   | Volume<br>bbl |
|--------------|-------------------------------|---------------|
| 180.00       | GOWCM 35g 10o 10w 45m         | 2.525         |
| 145.00       | GWCM ( Oil Spots ) 10g 5w 85m | 2.034         |
| 0.00         | 600' GIP                      | 0.000         |

Total Length: 325.00 ft      Total Volume: 4.559 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Serial #: 8845

Inside

Robert F. Hentree

Peterfile #5

DST Test Number: 1

