



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

**Frey #2-9**

202 W. Main St.  
Salem, IL 62881

**Sec.9 13s32w Logan**

ATTN: Tim Priest

Job Ticket: 29682

**DST#: 3**

Test Start: 2007.10.18 @ 21:44:00

## GENERAL INFORMATION:

Formation: **KC "J"**

Deviated: Nb Whipstock: ft (KB)

Time Tool Opened: 23:40:00

Time Test Ended: 05:09:45

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 4200.00 ft (KB) To 4226.00 ft (KB) (TVD)**

Reference Elevations: 3009.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

2999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8017 Inside**

Press@RunDepth: 384.31 psig @ 4201.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.10.18

End Date: 2007.10.19

Last Calib.: 2007.10.19

Start Time: 21:44:01

End Time: 05:09:45

Time On Btm: 2007.10.18 @ 23:39:00

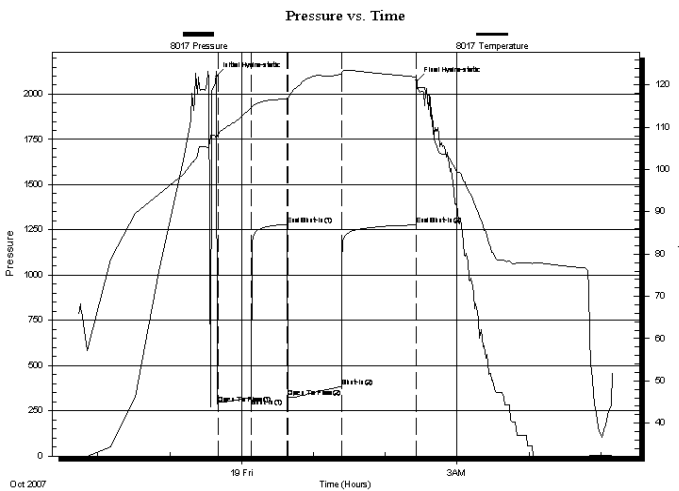
Time Off Btm: 2007.10.19 @ 02:26:15

**TEST COMMENT:** IF: Packer failure on initial open. 2nd attempt held, B.O.B. @ 29 min.

ISI: Weak return died @ 4 min.

FF: B.O.B. @ 26 min.

FSI: Return built to 5".



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2099.35         | 107.60       | Initial Hydro-static |
| 1           | 290.12          | 108.09       | Open To Flow(1)      |
| 29          | 321.12          | 114.43       | Shut-In(1)           |
| 59          | 1280.85         | 116.73       | End Shut-In(1)       |
| 60          | 323.99          | 116.66       | Open To Flow(2)      |
| 105         | 384.31          | 122.58       | Shut-In(2)           |
| 167         | 1277.25         | 121.98       | End Shut-In(2)       |
| 168         | 2074.84         | 120.55       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 370.00      | GMCW 10%G 10%M 80%W | 1.82         |
| 375.00      | GOCM 15%G 12%O 73%M | 3.82         |
| 45.00       | GOCM 10%G 5%O 85%M  | 0.63         |
|             |                     |              |
|             |                     |              |

## Gas Rates

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



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## Mud and Cushion Information

|                                  |                            |                          |
|----------------------------------|----------------------------|--------------------------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API: 0 deg API       |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: 20000ppm |
| Viscosity: 56.00 sec/qt          | Cushion Volume: bbl        |                          |
| Water Loss: 7.20 in <sup>3</sup> | Gas Cushion Type:          |                          |
| Resistivity: 0.00 ohm.m          | Gas Cushion Pressure: psig |                          |
| Salinity: 1700.00 ppm            |                            |                          |
| Filter Cake: 1.00 inches         |                            |                          |

## Recovery Information

Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 370.00       | GMCW 10%G 10%M 80%W | 1.820         |
| 375.00       | GOCM 15%G 12%O 73%M | 3.821         |
| 45.00        | GOCM 10%G 5%O 85%M  | 0.631         |

Total Length: 790.00ft      Total Volume: 6.272 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: 140 Feet of gas in pipe.  
Scum of oil in 370 feet of water.

