



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

**28-16s-34w Scott Co. KS**

202 Main St.  
Salem IL 62881

**Nightengale #1-28**

Job Ticket: 57734

**DST#: 2**

ATTN: Tim Priest

Test Start: 2014.09.27 @ 01:26:00

## GENERAL INFORMATION:

Formation: **Marmanton " A - B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:24:25

Time Test Ended: 09:36:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

**Interval: 4468.00 ft (KB) To 4516.00 ft (KB) (TVD)**

Reference Elevations: 3146.00 ft (KB)

Total Depth: 4516.00 ft (KB) (TVD)

3139.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

**Serial #: 8674**

**Inside**

Press @ Run Depth: 90.29 psig @ 4469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.27

End Date:

2014.09.27

Last Calib.:

2014.09.27

Start Time: 01:26:00

End Time:

09:36:09

Time On Btm:

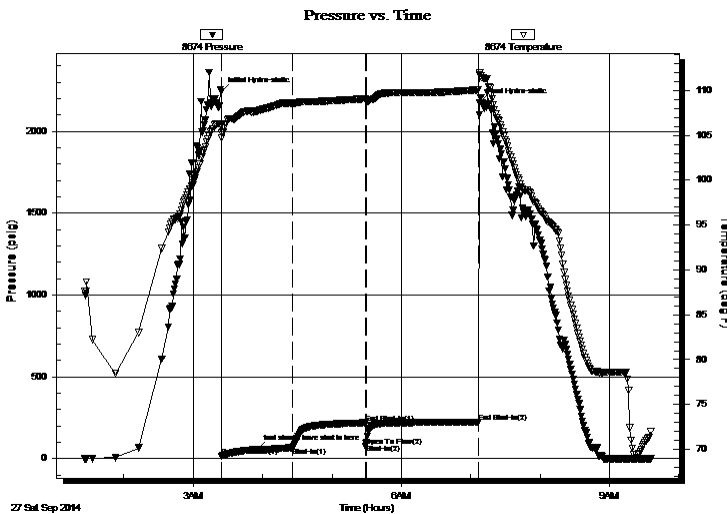
2014.09.27 @ 03:24:10

Time Off Btm:

2014.09.27 @ 07:07:54

**TEST COMMENT:** IF- Weak Surface Blow Built to 3 3/4"  
IS- Weak Surface Blow Built to 5"  
FF- Weak Surface Blow Built to 3"  
FS- No Blow

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation                    |
|-------------|-----------------|--------------|-------------------------------|
| 0           | 2245.40         | 106.11       | Initial Hydro-static          |
| 1           | 14.86           | 104.69       | Open To Flow (1)              |
| 31          | 54.18           | 107.70       | tool should have shut in here |
| 62          | 66.51           | 108.53       | Shut-In(1)                    |
| 125         | 218.45          | 109.08       | End Shut-In(1)                |
| 125         | 73.35           | 108.98       | Open To Flow (2)              |
| 126         | 90.29           | 108.87       | Shut-In(2)                    |
| 223         | 224.13          | 110.08       | End Shut-In(2)                |
| 224         | 2177.60         | 112.02       | Final Hydro-static            |

## Recovery

| Length (ft) | Description               | Volume (bbl) |
|-------------|---------------------------|--------------|
| 62.00       | WGOCM 3%w 6%g 20%oil 71%m | 0.30         |
| 62.00       | MGCO 10%m 22%g 68%oil     | 0.30         |
| 31.00       | MGCO 4%m 5%g 91%oil       | 0.43         |
| 0.00        | 93' of GIP                | 0.00         |
|             |                           |              |
|             |                           |              |

\* Recovery from multiple tests

## Gas Rates

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





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**FLUID SUMMARY**

Shakespeare Oil Co. Inc

**28-16s-34w Scott Co. KS**

202 Main St.  
Salem IL 62881

**Nightengale #1-28**

Job Ticket: 57734

**DST#: 2**

ATTN: Tim Priest

Test Start: 2014.09.27 @ 01:26:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description               | Volume<br>bbbl |
|--------------|---------------------------|----------------|
| 62.00        | WGOCM 3%w 6%g 20%oil 71%m | 0.305          |
| 62.00        | MGCO 10%m 22%g 68%oil     | 0.305          |
| 31.00        | MGCO 4%m 5%g 91%oil       | 0.435          |
| 0.00         | 93' of GIP                | 0.000          |

Total Length: 155.00 ft      Total Volume: 1.045 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 31 @ 70f = 30

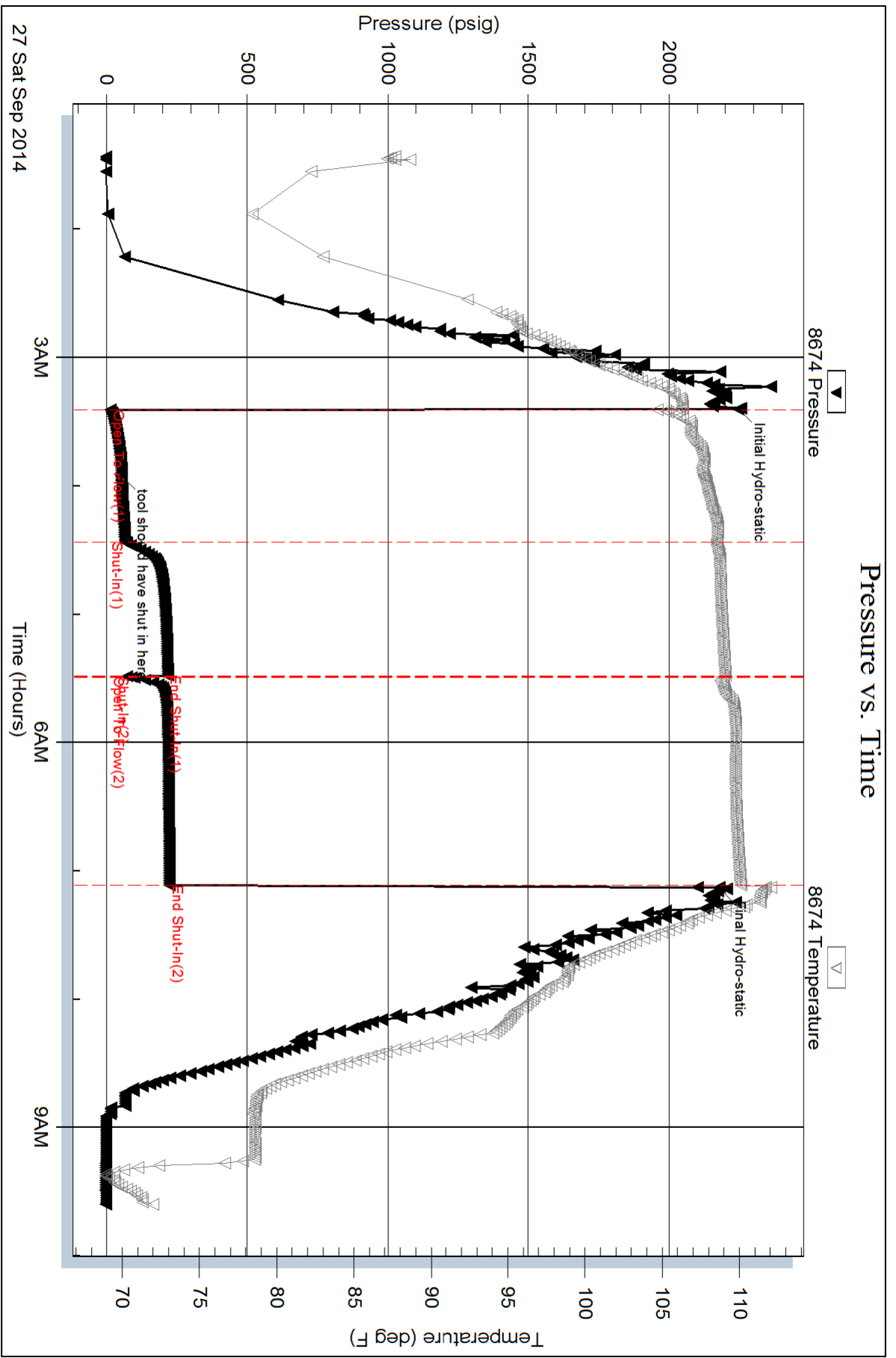
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Nightengale #1-28

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57734

Printed: 2014.09.27 @ 11:06:09

Serial #: 8355

Outside Shakespeare Oil Co. Inc

Nightengale #1-28

DST Test Number: 2

