



**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: 57735

**DST#: 3**

ATTN: Tim Priest

Test Start: 2014.09.27 @ 20:20:00

## GENERAL INFORMATION:

Formation: **Marmanton " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:30:55

Time Test Ended: 04:31:24

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 71

**Interval: 4516.00 ft (KB) To 4540.00 ft (KB) (TVD)**

Reference Elevations: 3146.00 ft (KB)

Total Depth: 4540.00 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: 1124.21 psig @ 4517.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.27

End Date:

2014.09.28

Last Calib.:

2014.09.28

Start Time: 20:20:00

End Time:

04:31:24

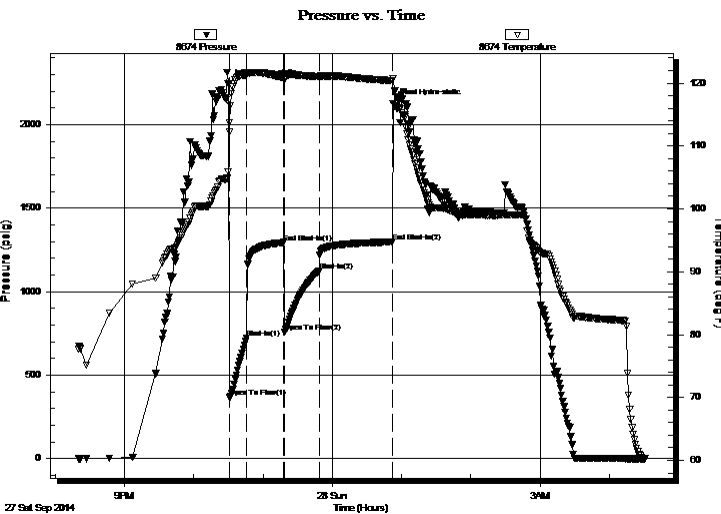
Time On Btm:

2014.09.27 @ 22:29:40

Time Off Btm:

2014.09.28 @ 00:52:39

**TEST COMMENT:** IF- Strong Surface Blow Built to BOB in 40sec  
 IS- Surface Blow Built to BOB in 4 3/4min  
 FF- Strong Surface Blow Built to BOB in 32sec Gas to Surface in 20min  
 FS- Weak Surface Blow Built to BOB in 20min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.68	105.93	Initial Hydro-static
2	366.28	113.71	Open To Flow (1)
16	722.23	121.26	Shut-In(1)
48	1294.40	120.88	End Shut-In(1)
49	757.47	120.49	Open To Flow (2)
79	1124.21	121.05	Shut-In(2)
143	1297.45	120.41	End Shut-In(2)
143	2127.59	120.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	GOCM 8%g 31%oil 61%m	1.48
0.00	20min sample MCGO 8%m 65%oil 27%	0.00
0.00	15min sample 14%g 86%oil	0.00
3100.00	5 & 10min sample GO 23%g 77%oil	43.48
233.00	GO 12%g 88%oil	3.27
0.00	1069' of GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



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**FLUID SUMMARY**

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**Nightengale #1-28**

Job Ticket: 57735

**DST#: 3**

ATTN: Tim Priest

Test Start: 2014.09.27 @ 20:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.92 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	GOCM 8%g 31%oil 61%m	1.480
0.00	20min sample MCGO 8%m 65%oil 27%g	0.000
0.00	15min sample 14%g 86%oil	0.000
3100.00	5 & 10min sample GO 23%g 77%oil	43.485
233.00	GO 12%g 88%oil	3.268
0.00	1069' of GIP	0.000

Total Length: 3519.00 ft Total Volume: 48.233 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 37 @ 60f = 37

Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Nightengale #1-28

DST Test Number: 3

