



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

**22-17s-33w Scott Co, KS**

202 West Street  
Salem IL, 62881

**Herron #1-22**

Job Ticket: 57299

**DST#: 3**

ATTN: Mac Armstrong

Test Start: 2014.11.14 @ 21:50:00

## GENERAL INFORMATION:

Formation: **Lower Johnson & Morr**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:38:45

Time Test Ended: 06:52:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: **4556.00 ft (KB) To 4624.00 ft (KB) (TVD)**

Reference Elevations: 2957.00 ft (KB)

Total Depth: 4624.00 ft (KB) (TVD)

2945.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

**Serial #: 8675**

**Inside**

Press @ Run Depth: 45.49 psig @ 4584.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.14

End Date:

2014.11.15

Last Calib.:

2014.11.15

Start Time: 21:50:15

End Time:

06:52:00

Time On Btm:

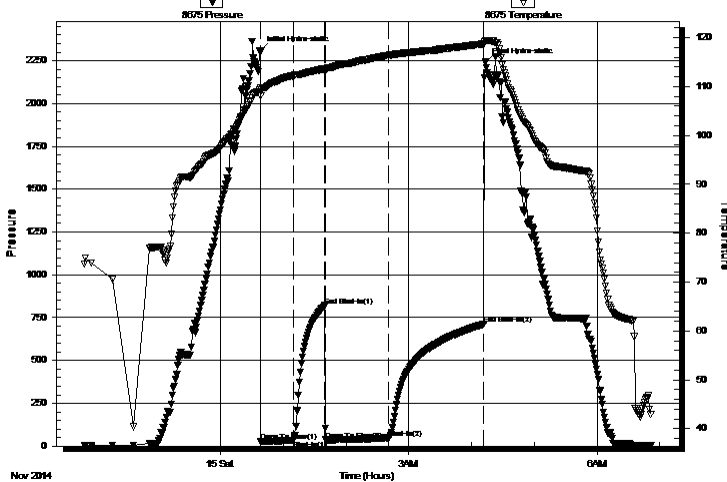
2014.11.15 @ 00:38:30

Time Off Btm:

2014.11.15 @ 04:13:15

**TEST COMMENT:** Built to 3 1/2" blow  
Bled off for 3 min, No return blow  
Built to 1 1/2" blow  
Bled off for 3 min, No return blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.48	109.68	Initial Hydro-static
1	25.99	108.09	Open To Flow (1)
32	34.17	112.19	Shut-In(1)
62	820.72	113.61	End Shut-In(1)
62	36.10	113.35	Open To Flow (2)
123	45.49	116.37	Shut-In(2)
214	712.06	118.72	End Shut-In(2)
215	2240.79	119.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	100% Mud with oil spots in tool	0.63

## Gas Rates

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

\* Recovery from multiple tests





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## FLUID SUMMARY

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**22-17s-33w Scott Co, KS**

202 West Street  
Salem IL, 62881

**Herron #1-22**

Job Ticket: 57299

**DST#: 3**

ATTN: Mac Armstrong

Test Start: 2014.11.14 @ 21:50:00

### 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	100% Mud with oil spots in tool	0.631

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

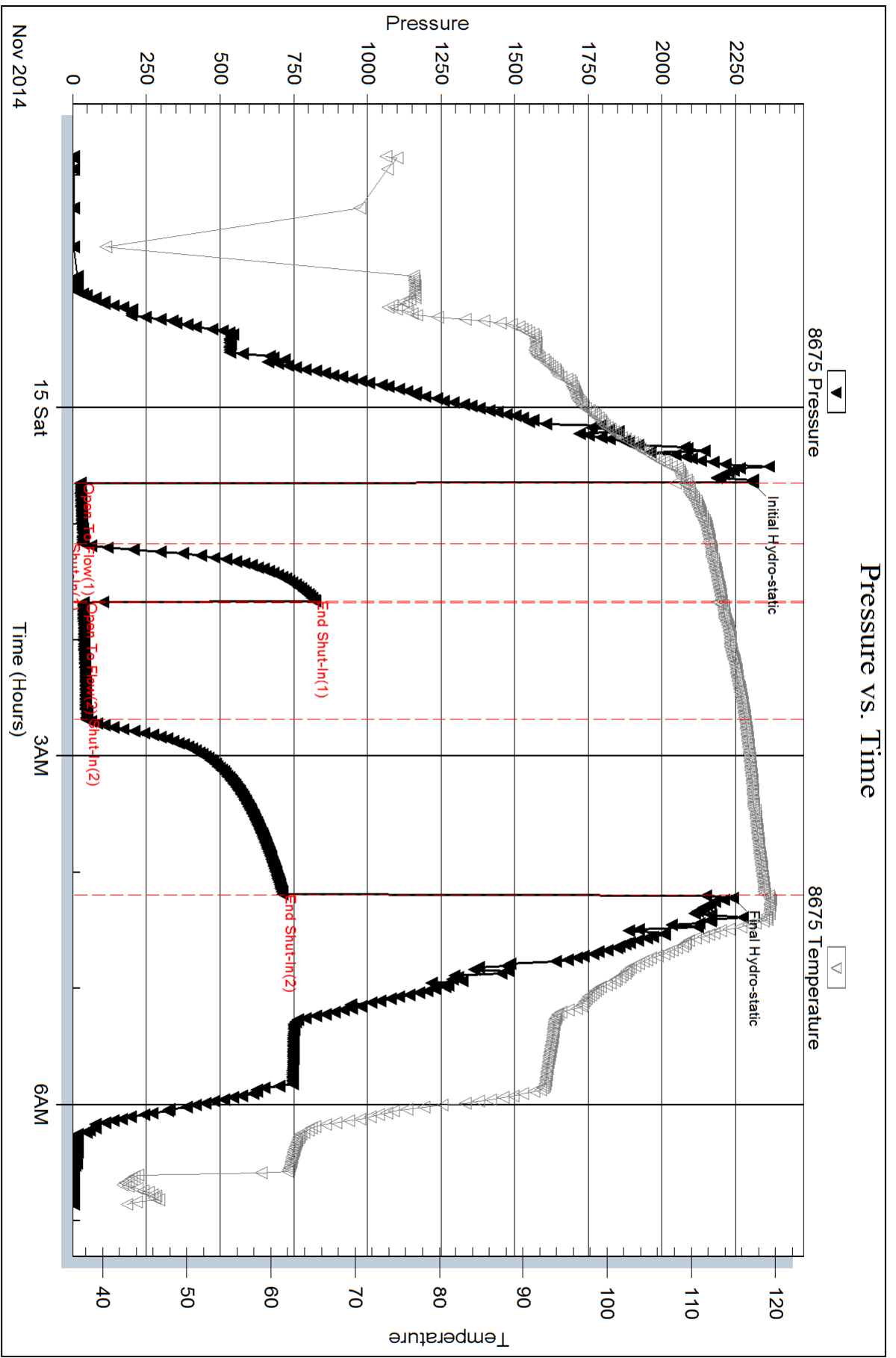
Serial #: 8675

Inside

Shakespeare Oil Company, Inc.

Herron #1-22

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 57299

Printed: 2014.11.15 @ 08:56:04

Serial #: 8650

Outside Shakespeare Oil Company, Inc.

Herron #1-22

DST Test Number: 3

