



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**S28-14s-32w Logan/KS**

202 W Main  
Salem, IL 62881

**Ottley 3-28**

Job Ticket: 61703

**DST#: 3**

ATTN: Tim Priest

Test Start: 2015.08.11 @ 11:58:00

## GENERAL INFORMATION:

Formation: **LKC 'H-J'**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:25:10  
 Time Test Ended: 18:28:50  
 Interval: **3799.00 ft (KB) To 3890.00 ft (KB) (TVD)**  
 Total Depth: 3890.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Chuck Smith  
 Unit No: 61  
 Reference Elevations: 2662.00 ft (KB)  
 2653.00 ft (CF)  
 KB to GR/CF: 9.00 ft

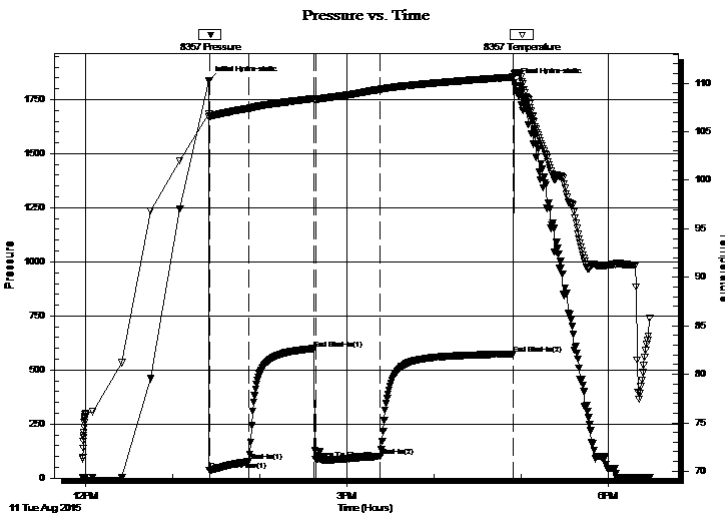
## Serial #: 8357

Inside

Press@RunDepth: 101.41 psig @ 3803.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.08.11 End Date: 2015.08.11 Last Calib.: 2015.08.11  
 Start Time: 11:58:02 End Time: 18:28:50 Time On Btm: 2015.08.11 @ 13:25:00  
 Time Off Btm: 2015.08.11 @ 16:55:10

TEST COMMENT: 30- 9" Blow .  
 45- No return.  
 45- 8" Blow .  
 90- Weak surface return died @ 5 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1839.02	106.86	Initial Hydro-static
1	34.60	106.59	Open To Flow (1)
28	76.17	107.41	Shut-In(1)
72	598.71	108.42	End Shut-In(1)
74	88.31	108.34	Open To Flow (2)
118	101.41	109.36	Shut-In(2)
210	574.54	110.64	End Shut-In(2)
211	1828.15	110.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: @ Degrees F = PPM	0.00
0.00	API: 31 @ 90 Degrees F = 28	0.00
120.00	GOCM 10g 15o 75m	0.59
80.00	GMCO 10g 15m 75o	1.12
0.00	100' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Ottley 3-28

Job Ticket: 61703

DST#: 3

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### GENERAL INFORMATION:

Formation: **LKC 'H-J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:25:10

Time Test Ended: 18:28:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

Interval: **3799.00 ft (KB) To 3890.00 ft (KB) (TVD)**

Total Depth: 3890.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2662.00 ft (KB)

2653.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **6751**

Outside

Press@RunDepth: psig @ 3803.00 ft (KB)

Start Date: 2015.08.11

End Date:

2015.08.11

Start Time: 11:58:02

End Time:

18:28:50

Capacity: 8000.00 psig

Last Calib.:

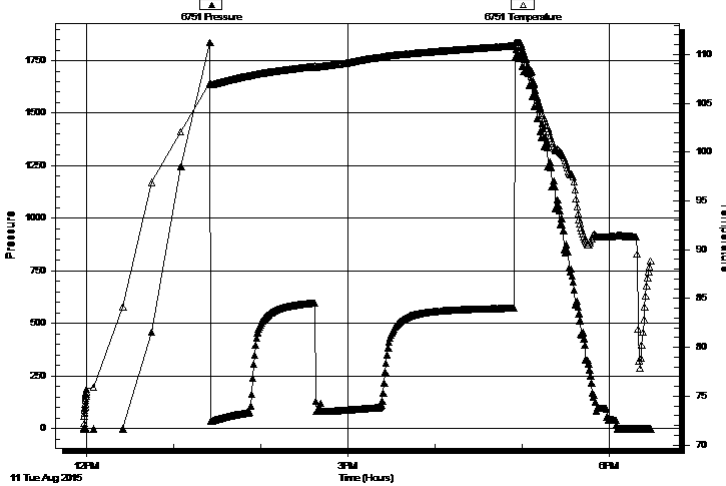
2015.08.11

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- 9" Blow .  
45- No return.  
45- 8" Blow .  
90- Weak surface return died @ 5 min.

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: @ Degrees F = PPM	0.00
0.00	API: 31 @ 90 Degrees F = 28	0.00
120.00	GOCM 10g 15o 75m	0.59
80.00	GMCO 10g 15m 75o	1.12
0.00	100' 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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**S28-14s-32w Logan/KS**

202 W Main  
Salem, IL 62881

**Ottley 3-28**

Job Ticket: 61703

**DST#: 3**

ATTN: Tim Priest

Test Start: 2015.08.11 @ 11:58:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	RW: @ Degrees F = PPM	0.000
0.00	API: 31 @ 90 Degrees F = 28	0.000
120.00	GOCM 10g 15o 75m	0.590
80.00	GMCO 10g 15m 75o	1.122
0.00	100' GIP	0.000

Total Length: 200.00 ft      Total Volume: 1.712 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

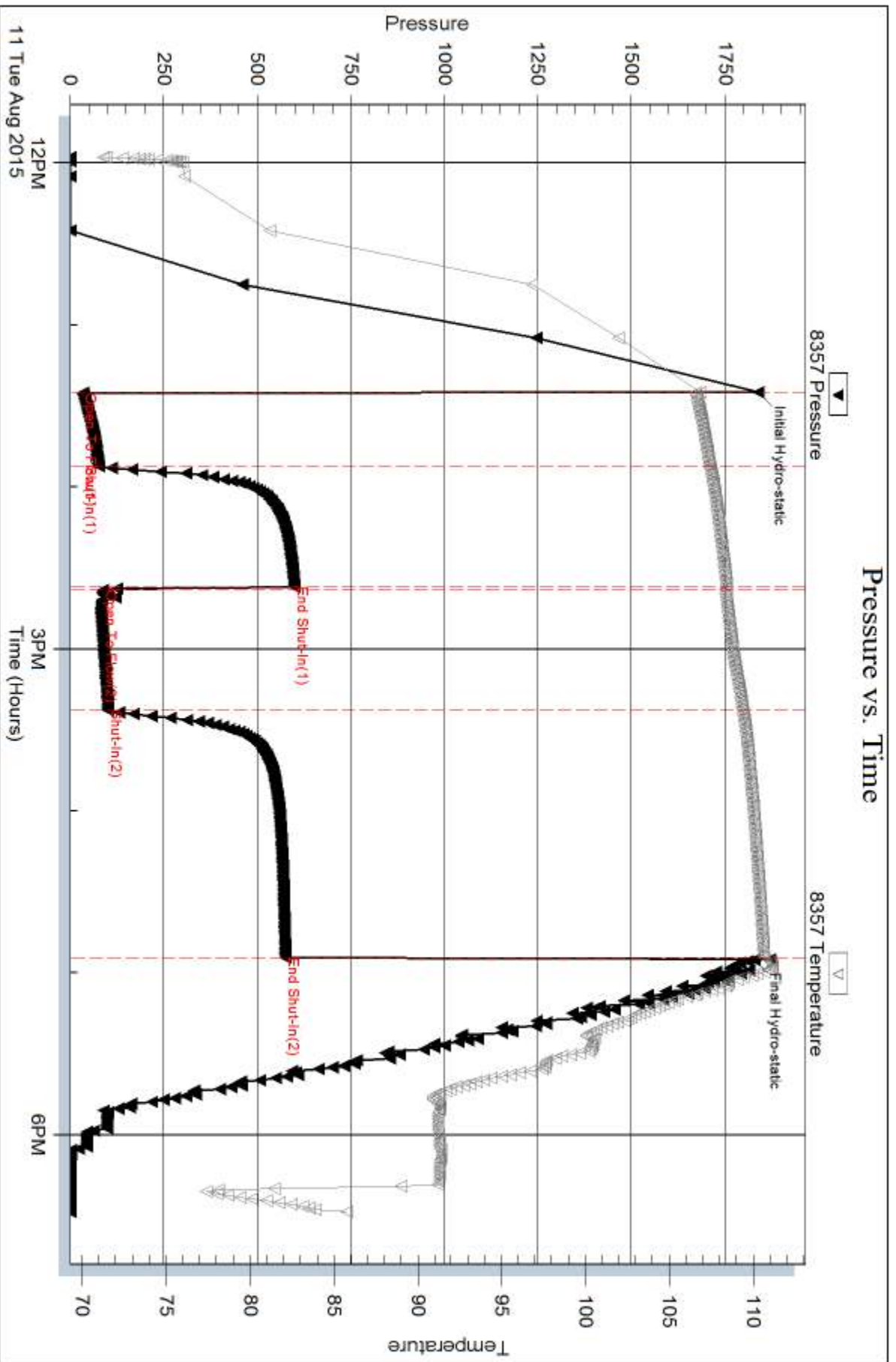
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



Serial #: 6751

Outside Shakespeare Oil Co. Inc.

Otley 3-28

DST Test Number: 3

