



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

**S3-13s-32w Logan, KS**

202 W Main  
Salem, IL 62881

**Andersen #1-3**

Job Ticket: 57198

**DST#: 2**

ATTN: Tim Priest

Test Start: 2014.08.12 @ 03:53:00

## GENERAL INFORMATION:

Formation: **LKC H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:15:40  
 Time Test Ended: 12:05:30  
 Interval: **4188.00 ft (KB) To 4215.00 ft (KB) (TVD)**  
 Total Depth: 4215.00 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: 3045.00 ft (KB)  
 3035.00 ft (CF)  
 KB to GR/CF: 10.00 ft

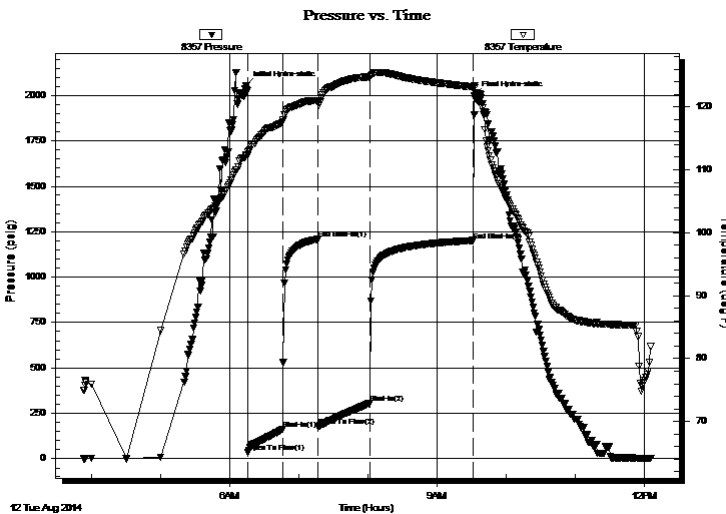
## Serial #: 8357

Inside

Press@RunDepth: 305.84 psig @ 4192.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.08.12 End Date: 2014.08.12 Last Calib.: 2014.08.12  
 Start Time: 03:53:02 End Time: 12:05:30 Time On Btm: 2014.08.12 @ 06:14:10  
 Time Off Btm: 2014.08.12 @ 09:32:30

TEST COMMENT: 30- B.O.B. @ 8 1/2 min.  
 30- 10" Return.  
 45- B.O.B. @ 7 1/2 min.  
 90- 10" Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.83	112.20	Initial Hydro-static
2	33.78	112.29	Open To Flow (1)
32	162.25	117.62	Shut-In(1)
62	1209.47	121.02	End Shut-In(1)
63	178.14	120.61	Open To Flow (2)
108	305.84	124.76	Shut-In(2)
198	1201.66	123.16	End Shut-In(2)
199	1997.19	123.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	GO 25g 75o	1.43
120.00	GMCO 20g 15m 65o	1.68
360.00	GO 45g 55o	5.05
200.00	GO 20g 80o	2.81
0.00	640' GIP	0.00

\* Recovery from multiple tests

## 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:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	GO 25g 75o	1.432
120.00	GMCO 20g 15m 65o	1.683
360.00	GO 45g 55o	5.050
200.00	GO 20g 80o	2.805
0.00	640' GIP	0.000

Total Length: 860.00 ft      Total Volume: 10.970 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 38 @ 90 Degrees F = 35.

