



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.  
 202 W Main St.  
 Salem IL  
 62881  
 ATTN: Tim Priest

**23-13-31 Logan Co. KS**

**Foster 1-17**

Job Ticket: 48989

**DST#: 5**

Test Start: 2012.08.09 @ 12:00:01

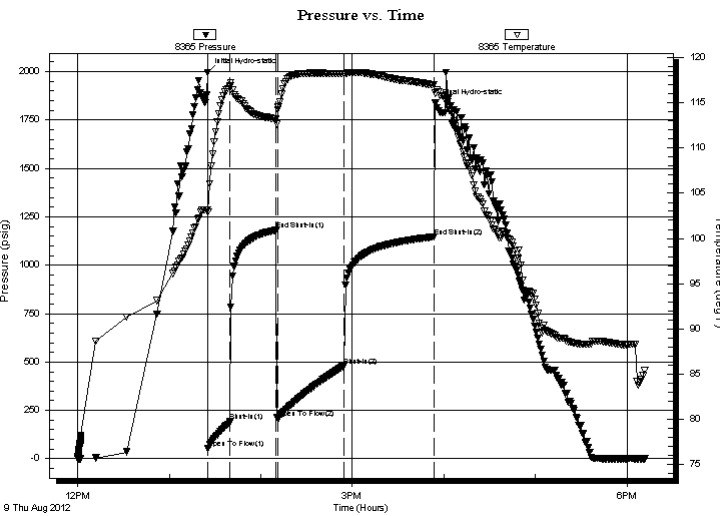
## GENERAL INFORMATION:

Formation: "I"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:25:30  
 Time Test Ended: 18:11:30  
 Interval: **3957.00 ft (KB) To 3990.00 ft (KB) (TVD)**  
 Total Depth: 3990.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 48  
 Reference Elevations: 2783.00 ft (KB)  
 2773.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8365

Press @ RunDepth: 480.25 psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.09 End Date: 2012.08.09 Last Calib.: 2012.08.09  
 Start Time: 12:00:01 End Time: 18:11:30 Time On Btm: 2012.08.09 @ 13:25:00  
 Time Off Btm: 2012.08.09 @ 15:54:30

TEST COMMENT: IF:BOB in 5 min.  
 IS:No return blow  
 FF:BOB in 5 min.  
 FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1996.44	103.17	Initial Hydro-static
1	52.46	102.98	Open To Flow (1)
15	191.67	116.94	Shut-In(1)
45	1181.52	113.21	End Shut-In(1)
46	208.13	114.24	Open To Flow (2)
90	480.25	118.25	Shut-In(2)
149	1146.19	116.99	End Shut-In(2)
150	1837.27	116.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	sw 100% sw	0.44
434.00	sw 100%sw	6.09
620.00	mcsw with trace of oil 40%m 60%w	8.70

\* 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:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

13000 ppm

Viscosity: 79.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	sw 100% sw	0.443
434.00	sw 100%sw	6.088
620.00	mcs w with trace of oil 40%m 60%w	8.697

Total Length: 1144.00 ft      Total Volume: 15.228 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .142@96.3=13,000 ppm

