



**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: 61704

DST#: 4

ATTN: Tim Priest

Test Start: 2015.08.12 @ 15:19:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:55:50

Time Test Ended: 22:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

Interval: 4005.00 ft (KB) To 4090.00 ft (KB) (TVD)

Reference Elevations: 2662.00 ft (KB)

Total Depth: 4090.00 ft (KB) (TVD)

2653.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8357

Inside

Press @ Run Depth: 226.90 psig @ 4006.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.12

End Date:

2015.08.12

Last Calib.:

2015.08.12

Start Time: 15:19:02

End Time:

22:48:30

Time On Btm:

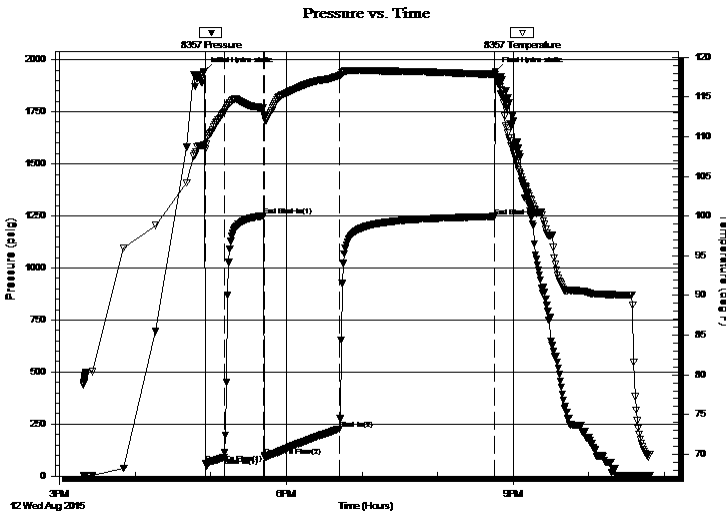
2015.08.12 @ 16:54:30

Time Off Btm:

2015.08.12 @ 20:45:50

TEST COMMENT: 15- B.O.B. @ 7 min.
30- 3" Return.
60- B.O.B. @ 6min.
120- B.O.B. @ 12min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.53	108.96	Initial Hydro-static
2	61.34	108.42	Open To Flow (1)
16	90.75	113.07	Shut-In(1)
48	1250.20	113.65	End Shut-In(1)
49	95.76	112.45	Open To Flow (2)
108	226.90	117.65	Shut-In(2)
231	1247.12	117.84	End Shut-In(2)
232	1944.34	117.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	API: 31 @ 70 Degrees F = 30.	0.00
182.00	GMCO 50g 20m 30o	1.46
372.00	GO 45g 55o	5.22
0.00	1240' Weak 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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ATTN: Tim Priest

Test Start: 2015.08.12 @ 15:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	API: 31 @ 70 Degrees F = 30.	0.000
182.00	GMCO 50g 20m 30o	1.460
372.00	GO 45g 55o	5.218
0.00	1240' Weak GIP	0.000

Total Length: 554.00 ft

Total Volume: 6.678 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8357

Inside

Shakespeare Oil Co. Inc.

Ottley 3-28

DST Test Number: 4

