



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

20-15s-33w Logan Co.

202 West Main st
Salem, IL 62881

Zanobia #1-20

Job Ticket: 51269

DST#: 2

ATTN: Tim Priest

Test Start: 2013.01.18 @ 08:18:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:20:15

Time Test Ended: 16:28:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4218.00 ft (KB) To 4235.00 ft (KB) (TVD)

Reference Elevations: 2889.00 ft (KB)

Total Depth: 4235.00 ft (KB) (TVD)

2879.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8845 Outside

Press @ RunDepth: 597.35 psig @ 4219.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.18

End Date: 2013.01.18

Last Calib.: 2013.01.18

Start Time: 08:18:05

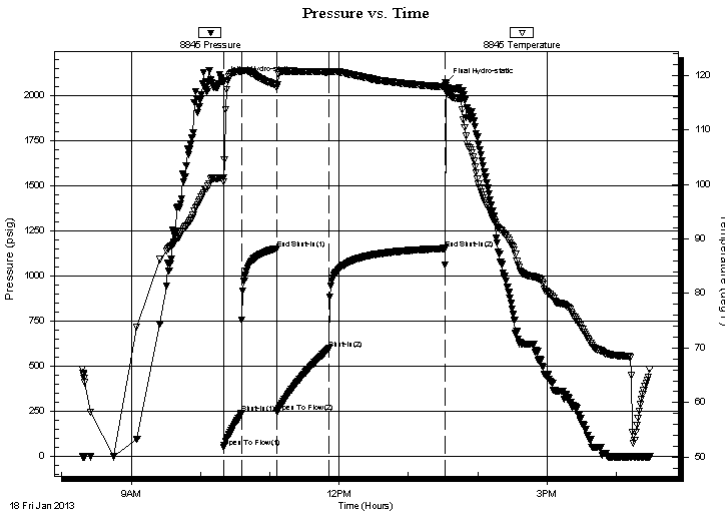
End Time: 16:28:44

Time On Btm: 2013.01.18 @ 10:20:00

Time Off Btm: 2013.01.18 @ 13:32:15

TEST COMMENT: IF: BOB @ 3 min.
IS: Weak surface return.
FF: BOB @ 3 1/2 min.
FS: 1/4" return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2083.37	101.19	Initial Hydro-static
1	52.72	100.51	Open To Flow (1)
16	238.14	120.65	Shut-In(1)
46	1152.76	118.25	End Shut-In(1)
47	248.38	117.77	Open To Flow (2)
92	597.35	120.57	Shut-In(2)
192	1153.80	117.87	End Shut-In(2)
193	2071.56	118.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
660.00	GMCW 5m 10g 85w	8.16
300.00	GMCW 10g 10m 80w (Oil Spots)	4.21
320.00	GOWCM 5g 5o 40w 50m	4.49
0.00	60' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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ATTN: Tim Priest

Test Start: 2013.01.18 @ 08:18:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
660.00	GMCW 5m 10g 85w	8.165
300.00	GMCW 10g 10m 80w (Oil Spots)	4.208
320.00	GOWCM 5g 5o 40w 50m	4.489
0.00	60' GIP	0.000

Total Length: 1280.00 ft Total Volume: 16.862 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .131 @ 67 degrees= 58,000

Serial #: 8845

Outside Shakespeare Oil Co. Inc.

Zanobia #1-20

DST Test Number: 2

