



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

23-13s-31w

202 W Main Street
Salem, IL 62881

Zerr Trust #4-23

ATTN: Tim Priest

Job Ticket: 52780

DST#: 7

Test Start: 2013.07.20 @ 21:13:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:25:50

Time Test Ended: 05:22:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith 62

Unit No: 62

Interval: 4501.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 2880.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

2870.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 151.60 psig @ 4503.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.20

End Date:

2013.07.21

Last Calib.: 2013.07.21

Start Time: 21:13:02

End Time:

05:22:20

Time On Btm: 2013.07.20 @ 23:24:30

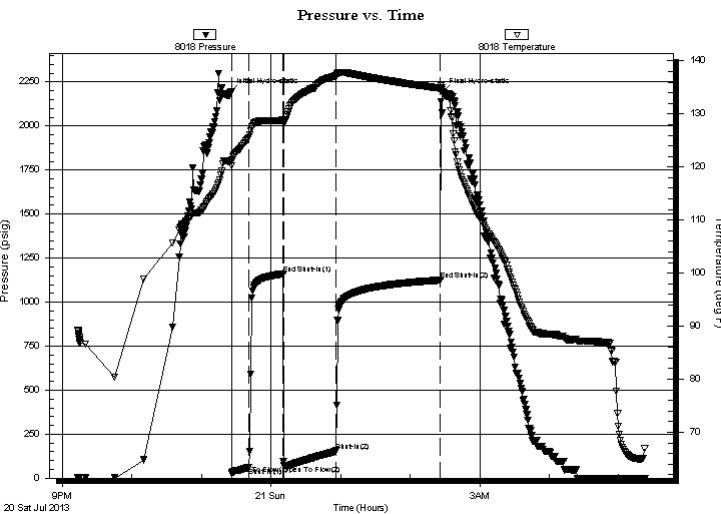
Time Off Btm: 2013.07.21 @ 02:27:40

TEST COMMENT: B.O.B. @ 5 min.

6" Return.

B.O.B. @ 4 min.

B.O.B. @ 20 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2192.21	121.01	Initial Hydro-static
2	23.76	120.21	Open To Flow (1)
17	59.83	125.48	Shut-In(1)
46	1160.53	128.82	End Shut-In(1)
47	71.23	128.23	Open To Flow (2)
91	151.60	137.13	Shut-In(2)
182	1125.21	134.85	End Shut-In(2)
184	2192.77	134.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2257' GIP	0.00
118.00	GOCM 35g 25o 40m	0.58
310.00	GO 35g 65o	4.35

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Zerr Trust #4-23

Job Ticket: 52780

DST#: 7

ATTN: Tim Priest

Test Start: 2013.07.20 @ 21:13:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 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	2257' GIP	0.000
118.00	GOCM 35g 25o 40m	0.580
310.00	GO 35g 65o	4.348

Total Length: 428.00 ft Total Volume: 4.928 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 33 @ 70 Degrees F = 32

Serial #: 8018

Inside

Shakespeare Oil Co, Inc

Zerr Trust #4-23

DST Test Number: 7

Pressure vs. Time

