



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

17-13-22 Logan, KS

202 w main st
Salem, IL 62881

Campbell 3-17

Job Ticket: 54971

DST#: 1

ATTN: Tim Priest

Test Start: 2013.11.17 @ 22:58:15

GENERAL INFORMATION:

Formation: **A&B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:21:45

Time Test Ended: 06:21:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 4027.00 ft (KB) To 4060.00 ft (KB) (TVD)

Total Depth: 4060.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3036.00 ft (KB)

3029.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 128.56 psig @ 4032.00 ft (KB)

Start Date: 2013.11.17

End Date: 2013.11.18

Start Time: 22:58:20

End Time: 06:21:14

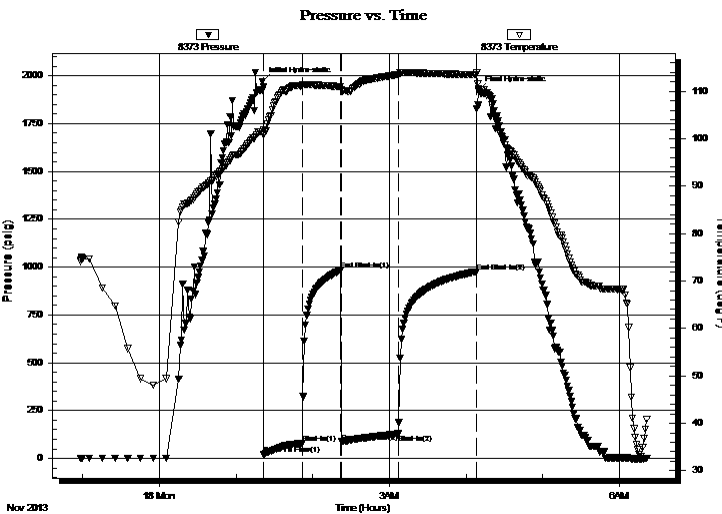
Capacity: 8000.00 psig

Last Calib.: 2013.11.18

Time On Btm: 2013.11.18 @ 01:20:45

Time Off Btm: 2013.11.18 @ 04:09:45

TEST COMMENT: IF: 1/4 blow built to 8 in 30 min.
IS: No return.
FF: Surface blow built to 8 in 45 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.17	101.46	Initial Hydro-static
1	19.77	100.91	Open To Flow (1)
31	80.69	111.17	Shut-In(1)
61	983.11	110.99	End Shut-In(1)
62	86.90	110.33	Open To Flow (2)
106	128.56	113.50	Shut-In(2)
167	976.41	113.49	End Shut-In(2)
169	1923.08	110.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 90%w 10%m	1.53
72.00	mcw 80%w 20%m	1.01

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:

65000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 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 bbl
186.00	mcw 90%w 10%m	1.525
72.00	mcw 80%w 20%m	1.010

Total Length: 258.00 ft Total Volume: 2.535 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .25@34=65000

