



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co

17-13-32 Logan, KS

202 w main st
Salem, IL 62881

Campbell 3-17

Job Ticket: 54974

DST#: 4

ATTN: Tim Priest

Test Start: 2013.11.20 @ 13:13:51

GENERAL INFORMATION:

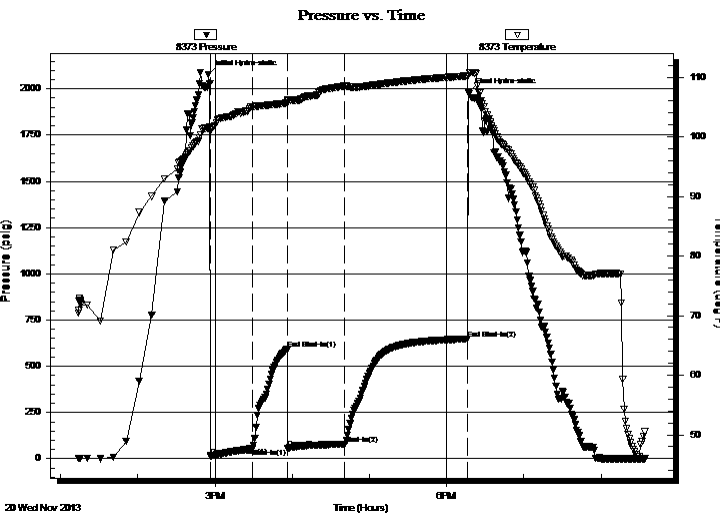
Formation: **H&I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:56:21
 Time Test Ended: 20:34:21
 Interval: **4172.00 ft (KB) To 4230.00 ft (KB) (TVD)**
 Total Depth: 4230.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 3036.00 ft (KB)
 3029.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8373

Inside

Press @ Run Depth: 80.31 psig @ 4177.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.20 End Date: 2013.11.20 Last Calib.: 2013.11.20
 Start Time: 13:13:56 End Time: 20:34:20 Time On Btm: 2013.11.20 @ 14:54:51
 Time Off Btm: 2013.11.20 @ 18:16:51

TEST COMMENT: IF: 1/4 blow built to 3.
 IS: No return.
 FF: Surface blow built to 3 1/2.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.58	101.43	Initial Hydro-static
2	14.18	101.11	Open To Flow (1)
34	54.07	104.98	Shut-In(1)
61	590.50	105.66	End Shut-In(1)
62	57.10	106.00	Open To Flow (2)
106	80.31	108.52	Shut-In(2)
201	647.69	110.19	End Shut-In(2)
202	1978.52	110.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 10%w 90%m	0.30
60.00	w cm 5%w 95%m	0.30
30.00	ocm 5%o 95%m	0.42

* 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:

29000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	w cm 10%w 90%m	0.295
60.00	w cm 5%w 95%m	0.304
30.00	ocm 5%o 95%m	0.421

Total Length: 150.00 ft Total Volume: 1.020 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .30@55=29000

