



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56535

DST#: 1

ATTN: Wes Hansen

Test Start: 2014.05.20 @ 04:57:00

GENERAL INFORMATION:

Formation: **Marmaton 'A'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:52:30

Time Test Ended: 15:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III

Unit No: 65

Interval: **4384.00 ft (KB) To 4450.00 ft (KB) (TVD)**

Reference Elevations: 3129.00 ft (KB)

Total Depth: 4450.00 ft (KB) (TVD)

3117.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8737 Outside

Press@RunDepth: 1085.19 psig @ 4388.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.20 End Date: 2014.05.20

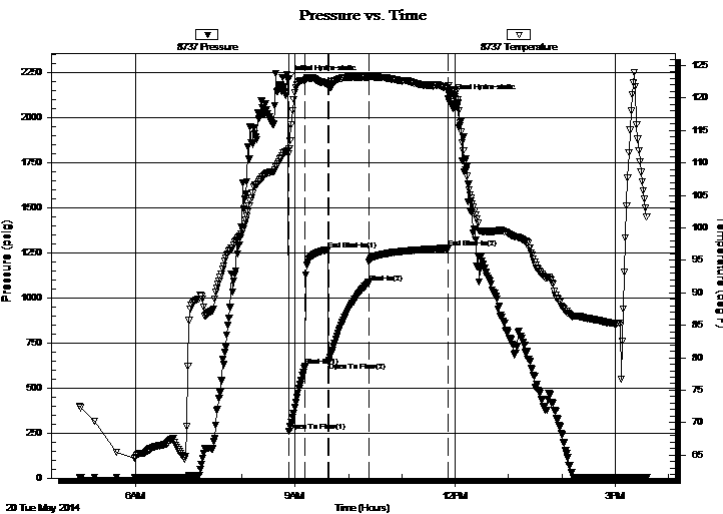
Last Calib.: 2014.05.20

Start Time: 04:57:15 End Time: 15:36:30

Time On Btm: 2014.05.20 @ 08:52:00

Time Off Btm: 2014.05.20 @ 11:52:30

TEST COMMENT: IF: B.o.b. in 1 min.
IS: Bled off in 2 1/2 min.- Surface Blow back throughout Shut-in
FF: B.o.b. in 1 min.
FS: Bled off in 1 1/2 min.-Weak surface Blow back-Died in 5 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.18	111.86	Initial Hydro-static
1	259.24	111.41	Open To Flow (1)
19	619.61	122.68	Shut-In(1)
45	1266.78	122.15	End Shut-In(1)
46	645.34	121.85	Open To Flow (2)
91	1085.19	123.20	Shut-In(2)
180	1275.66	121.64	End Shut-In(2)
181	2106.42	121.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
612.00	G & Mcw 20g 20m 60w	8.58
189.00	G & Mcw 15g 30m 55w	2.65
189.00	Mco & G 20m 20o 60g	2.65
63.00	G & Mco 20g 25m 55o	0.88
1386.00	Gw 10g 90w	19.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
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FLUID SUMMARY

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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:

15000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
612.00	G & Mcw 20g 20m 60w	8.585
189.00	G & Mcw 15g 30m 55w	2.651
189.00	Mco & G 20m 20o 60g	2.651
63.00	G & Mco 20g 25m 55o	0.884
1386.00	Gw 10g 90w	19.442

Total Length: 2439.00 ft Total Volume: 34.213 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .330@91=15000

