



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woosley Operating Co. LLC.

19-32s-12w Barber,KS

125 N. Market Ste. 1000
Wichita, KS 67202-1729

Warren Fee #11

Job Ticket: 54159

DST#: 1

ATTN: Bill Klaver

Test Start: 2014.07.24 @ 23:00:59

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:15:14
 Time Test Ended: 07:38:29
 Interval: **4445.00 ft (KB) To 4505.00 ft (KB) (TVD)**
 Total Depth: 4505.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 1656.00 ft (KB)
 1644.00 ft (CF)
 KB to GR/CF: 12.00 ft

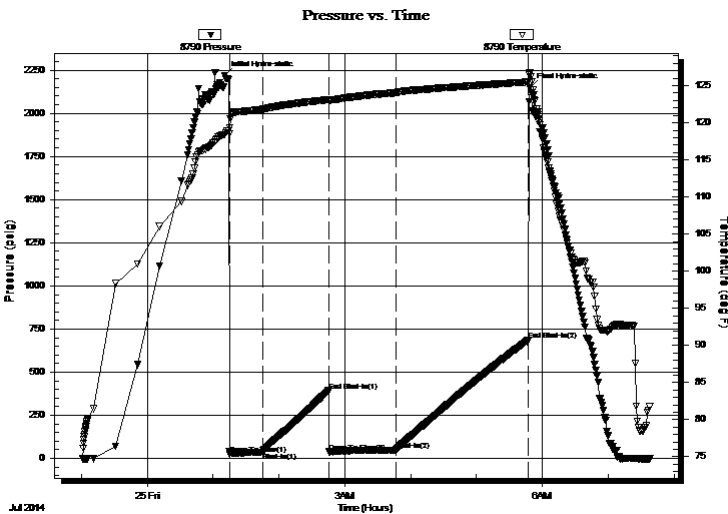
Serial #: 8790

Inside

Press@RunDepth: 48.05 psig @ 4449.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.24 End Date: 2014.07.25 Last Calib.: 2014.07.25
 Start Time: 23:01:04 End Time: 07:38:29 Time On Btm: 2014.07.25 @ 01:10:44
 Time Off Btm: 2014.07.25 @ 05:48:29

TEST COMMENT: IF: Strong blow . BOB @ 4 1/2 min.
 IS: No blow
 FF: Fair blow . 4 - 6".
 FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.16	118.44	Initial Hydro-static
5	25.80	119.31	Open To Flow (1)
35	38.16	121.82	Shut-In(1)
95	391.99	123.13	End Shut-In(1)
95	38.09	122.95	Open To Flow (2)
156	48.05	124.04	Shut-In(2)
277	683.71	125.50	End Shut-In(2)
278	2150.29	126.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 2%, 98% m	0.44
0.00	555' GIP	0.00
0.00	Hvy OsptdM in Hyd. Tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /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:

4000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.08 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	OCM 2%o, 98%m	0.443
0.00	555' GIP	0.000
0.00	Hvy OsptdM in Hyd. Tool	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

