



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.
 125 N. Market Ste. 1000
 Wichita, KS 67202-1729
 ATTN: Joel Gearhart

12-35s-12w Barber Co., KS

Sternberger B-2

Job Ticket: 59908

DST#: 2

Test Start: 2014.09.12 @ 17:22:35

GENERAL INFORMATION:

Formation: **Miesner**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 19:51:20

Time Test Ended: 02:47:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 68

Interval: 5045.00 ft (KB) To 5151.00 ft (KB) (TVD)

Reference Elevations: 1364.00 ft (KB)

Total Depth: 5151.00 ft (KB) (TVD)

1352.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8790

Inside

Press @ Run Depth: 795.68 psig @ 5051.50 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.12

End Date:

2014.09.13

Last Calib.:

2014.09.13

Start Time:

17:22:40

End Time:

02:47:20

Time On Btm:

2014.09.12 @ 19:47:20

Time Off Btm:

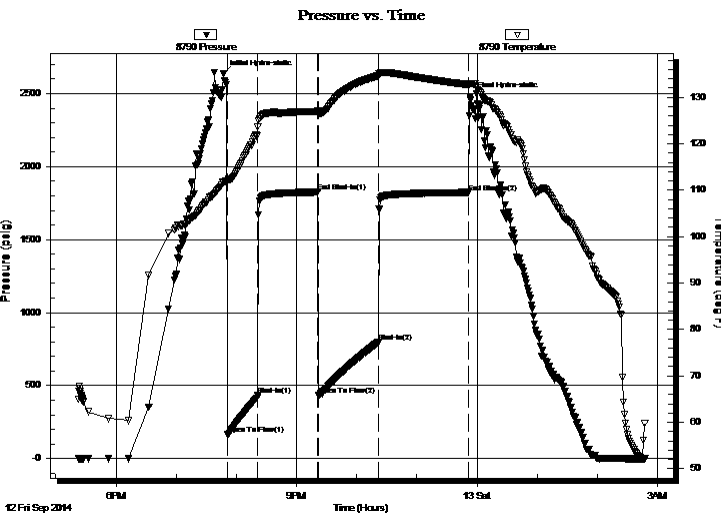
2014.09.12 @ 23:53:05

TEST COMMENT: IF: Strong blow . BOB @ 5min.

IS: No blow

FF: Strong blow . BOB @ 10min.

FS: Good blow . surf. - 10"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2633.89	111.56	Initial Hydro-static
4	164.27	111.90	Open To Flow (1)
34	434.49	123.71	Shut-In(1)
94	1825.67	126.98	End Shut-In(1)
95	434.12	126.25	Open To Flow (2)
154	795.68	134.62	Shut-In(2)
245	1823.13	132.71	End Shut-In(2)
246	2479.22	132.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1000.00	MGCW 5%m, 10%g, 85%w	11.77
620.00	GMCW 10%g, 40%m, 50%w	8.70
0.00	200' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Test Start: 2014.09.12 @ 17:22:35

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:

75000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1000.00	MGCW 5%m, 10%g, 85%w	11.768
620.00	GMCW 10%g, 40%m, 50%w	8.697
0.00	200' GIP	0.000

Total Length: 1620.00 ft Total Volume: 20.465 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

Inside

Woodsey Oper. Co. LLC.

Sternberger B-2

DST Test Number: 2

