



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co. LLC

21-32s-12w Barber Ks

125 N. Market Suite 1000
Wichita Ks 67202

Kirkbride A-1

Job Ticket: 51843

DST#: 2

ATTN: Joel Gearhart

Test Start: 2014.01.14 @ 00:20:52

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:42:07

Time Test Ended: 10:09:07

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 53

Interval: 4394.00 ft (KB) To 4454.00 ft (KB) (TVD)

Reference Elevations: 1591.00 ft (KB)

Total Depth: 4454.00 ft (KB) (TVD)

1579.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6719 Outside

Press @ Run Depth: 63.74 psig @ 4395.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.14

End Date: 2014.01.14

Last Calib.: 2014.01.14

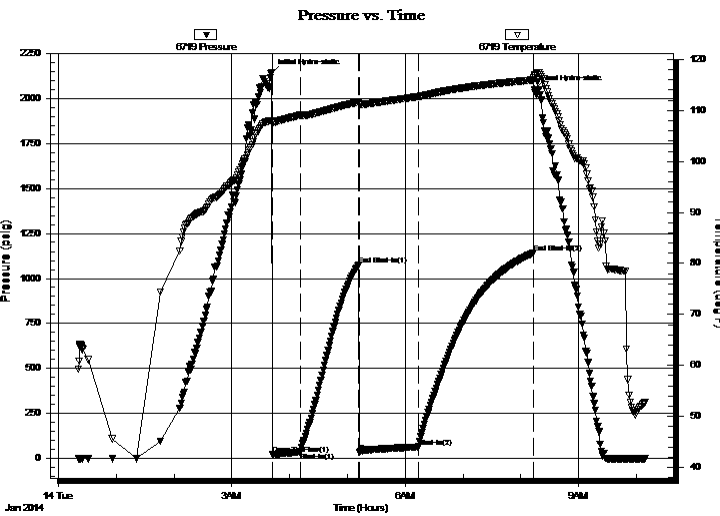
Start Time: 00:20:57

End Time: 10:09:07

Time On Btm: 2014.01.14 @ 03:40:52

Time Off Btm: 2014.01.14 @ 08:14:07

TEST COMMENT: IF: Strong blow . B.O.B. in 12 mins.
IS: Weak blow . 1/4" - 1/2".
FF: Strong blow . B.O.B. in 30 sec.
FS: Weak blow (surface) dead in 15 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.34	108.00	Initial Hydro-static
2	23.50	107.60	Open To Flow (1)
30	36.66	109.04	Shut-In(1)
91	1074.95	111.62	End Shut-In(1)
92	33.91	111.31	Open To Flow (2)
153	63.74	112.69	Shut-In(2)
273	1142.65	115.97	End Shut-In(2)
274	2047.75	116.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GM&WCO 34%g 18%m 18%w 30%o	0.30
65.00	GOCM 11%g 40%o 49%m	0.32
0.00	1470 ft.GIP	0.00

Gas Rates

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

* Recovery from multiple tests



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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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4454.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GM&WCO 34%g 18%m 18%w 30%o	0.295
65.00	GOCM 11%g 40%o 49%m	0.320
0.00	1470 ft.GIP	0.000

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

