



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thoroughbred Associates, LLC.

29-23s-23w Hodgeman co.

8100 E.22nd St. Suite 600
Wichita, Ks. 67226

Bradford #1-29

Job Ticket: 52009

DST#: 1

ATTN: Bobby Patton

Test Start: 2014.04.28 @ 14:27:12

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 18:41:27

Time Test Ended: 00:19:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

Interval: 4608.00 ft (KB) To 4673.00 ft (KB) (TVD)

Reference Elevations: 2404.00 ft (KB)

Total Depth: 4673.00 ft (KB) (TVD)

2394.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6773 Outside

Press@RunDepth: 751.03 psig @ 4609.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.28

End Date:

2014.04.29

Last Calib.:

2014.04.29

Start Time: 14:27:17

End Time:

00:19:27

Time On Btm:

2014.04.28 @ 18:39:27

Time Off Btm:

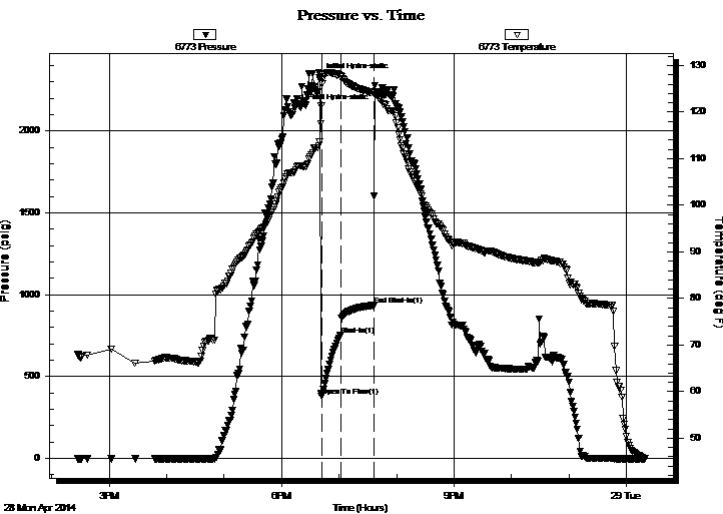
2014.04.28 @ 19:37:27

TEST COMMENT: IF: Strong blow . B.O.B. in 1 min.

IS: No blow .

FF: Pulled test.

FS: Pulled test.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2324.04	113.57	Initial Hydro-static
2	380.78	121.36	Open To Flow (1)
22	751.03	127.75	Shut-In(1)
57	934.85	124.09	End Shut-In(1)
58	2276.66	124.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	WCM 35%w 65%m	0.97
186.00	WCM 15%m 85%w	2.61
930.00	WCM 3%m 97%w	13.05
180.00	MWOG 2%o 3%g 35%w 60%m	2.52

Gas Rates

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

26000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	WCM 35%w 65%m	0.969
186.00	WCM 15%m 85%w	2.609
930.00	WCM 3%m 97%w	13.045
180.00	MVOG 2%o 3%g 35%w 60%m	2.525

Total Length: 1482.00 ft Total Volume: 19.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .37 & 50 degrees, = 26000

