



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating
 125 N Market Ste 1000
 Wichita, KS 67202
 ATTN: Joel Gearhart

14-35N-12W-Barber, KS
Gottsch #1
 Job Ticket: 57508 **DST#: 1**
 Test Start: 2014.03.24 @ 13:57:17

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:05:32 Tester: Tate Lang/Phillip Ga
 Time Test Ended: 23:16:32 Unit No: 74
 Interval: **4750.00 ft (KB) To 4902.00 ft (KB) (TVD)** Reference Elevations: 1381.00 ft (KB)
 Total Depth: 4902.00 ft (KB) (TVD) 1369.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

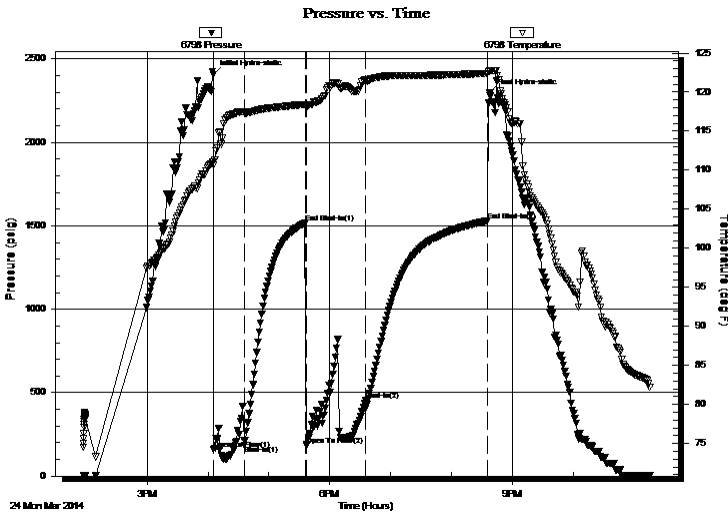
Serial #: 6798

Inside

Press @ Run Depth: 456.36 psig @ 4754.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.24 End Date: 2014.03.24 Last Calib.: 2014.03.24
 Start Time: 13:57:18 End Time: 23:16:32 Time On Btm: 2014.03.24 @ 16:05:17
 Time Off Btm: 2014.03.24 @ 20:37:47

TEST COMMENT: 30-IF-BOB in 2 mins.
 60-ISI-Built to 1 1/4" in 10mins, died in 50 mins.
 60-FF-BOB in 30 secs, Gas to surface in 40 mins.
 120-FSI-Built to 3 1/2", died in 60 mins.

PRESSURE SUMMARY



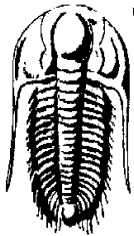
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2408.65	111.12	Initial Hydro-static
1	159.64	110.65	Open To Flow (1)
31	184.28	117.32	Shut-In(1)
91	1518.06	118.44	End Shut-In(1)
92	183.90	118.14	Open To Flow (2)
150	456.36	121.61	Shut-In(2)
271	1530.86	122.40	End Shut-In(2)
273	2295.80	122.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	10%G 20%O 70%M	3.43
110.00	10%G 90%M	1.54
0.00	Gas to surface	0.00

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 57508

DST#: 1

ATTN: Joel Gearhart

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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:

ppm

Viscosity: 66.00 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: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	10%G 20%O 70%M	3.428
110.00	10%G 90%M	1.543
0.00	Gas to surface	0.000

Total Length: 470.00 ft Total Volume: 4.971 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

