



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer

18-15s-12e Wabaunsee KS

Po box 352
Russell KS, 67665

Waugh B #3

Job Ticket: 53938

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.07.28 @ 12:48:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:27:15

Time Test Ended: 21:32:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 53

Interval: 2989.00 ft (KB) To 3014.00 ft (KB) (TVD)

Reference Elevations: 1299.00 ft (KB)

Total Depth: 3014.00 ft (KB) (TVD)

1291.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6799 Inside

Press @ Run Depth: 116.37 psig @ 2990.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.28

End Date: 2013.07.28

Last Calib.: 2013.07.28

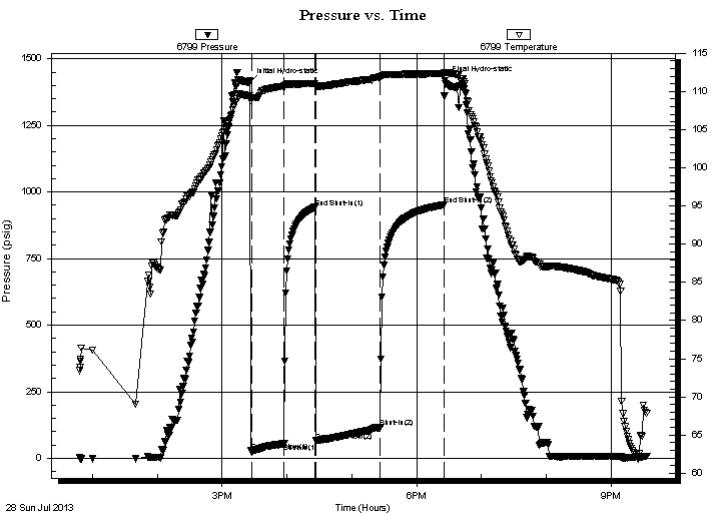
Start Time: 12:48:05

End Time: 21:32:45

Time On Btm: 2013.07.28 @ 15:25:15

Time Off Btm: 2013.07.28 @ 18:26:15

TEST COMMENT: 30 - IF- 2" blow
30 - IS- No return
FF- 3" blow
FS- No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1412.09	109.43	Initial Hydro-static
2	26.40	109.03	Open To Flow (1)
32	54.64	110.62	Shut-In(1)
60	942.22	111.06	End Shut-In(1)
62	65.63	110.72	Open To Flow (2)
121	116.37	111.87	Shut-In(2)
180	951.56	112.32	End Shut-In(2)
181	1417.32	112.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCO, 50%O, 50%M	0.61
62.00	MCO, 40%M, 60%O	0.30
62.00	SOCM, 5%O, 95%M	0.30
5.00	Free oil, 100%O	0.02

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:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	MCO, 50%O, 50%M	0.610
62.00	MCO, 40%M, 60%O	0.305
62.00	SOCM, 5%O, 95%M	0.305
5.00	Free oil, 100%O	0.025

Total Length: 253.00 ft Total Volume: 1.245 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: oil w as VERY thick.

