



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hutchinson Oil Co

21-21-11 Stafford Co

Po Box 521
Derby KS 67037

Alan SW #1

Job Ticket: 52431

DST#: 1

ATTN: Nick Hutchinson/ Jef

Test Start: 2013.09.16 @ 16:58:24

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:09:39

Time Test Ended: 01:26:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: **3526.00 ft (KB) To 3558.00 ft (KB) (TVD)**

Reference Elevations: 1822.00 ft (KB)

Total Depth: 3558.00 ft (KB) (TVD)

1809.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8676 Outside

Press @ Run Depth: 158.74 psig @ 3527.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.16 End Date: 2013.09.17

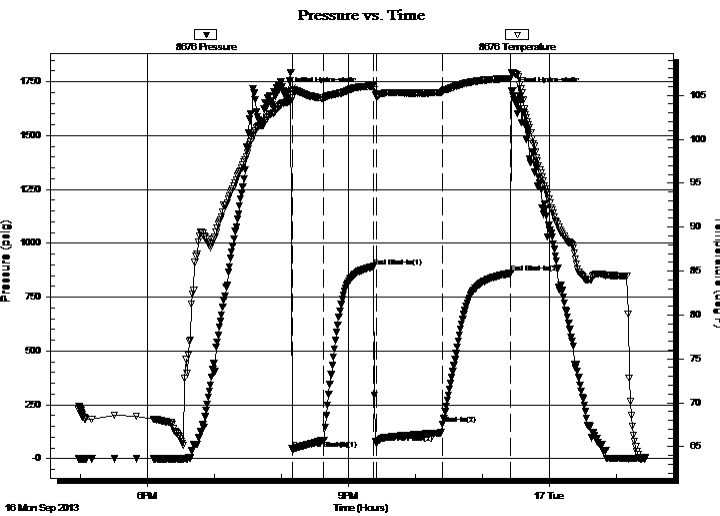
Last Calib.: 2013.09.17

Start Time: 16:58:29 End Time: 01:26:08

Time On Btm: 2013.09.16 @ 20:06:39

Time Off Btm: 2013.09.16 @ 23:26:54

TEST COMMENT: IF: Strong blow BOB 1 min
IS: No blow back
FF: Strong blow BOB 20 sec GTS 1 min TSTM
FS: Weak blow back 2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1703.14	104.29	Initial Hydro-static
3	45.43	104.77	Open To Flow (1)
32	85.68	104.68	Shut-In(1)
77	891.95	106.07	End Shut-In(1)
79	70.52	104.90	Open To Flow (2)
138	158.74	105.45	Shut-In(2)
199	860.47	106.93	End Shut-In(2)
201	1704.78	107.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3515 GIP	0.00
50.00	M,O,G 10%mud 20%oil 70%gas	0.25
300.00	O,M,G 25%oil 25%mud 50%gas	1.68

Gas Rates

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



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FLUID SUMMARY

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DST#: 1

ATTN: Nick Hutchinson/ Jef

Test Start: 2013.09.16 @ 16:58:24

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3515 GIP	0.000
50.00	M,O,G 10%mud 20%oil 70%gas	0.246
300.00	O,M,G 25%oil 25%mud 50%gas	1.676

Total Length: 350.00 ft Total Volume: 1.922 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8676

Outside Hutchinson Oil Co

Alan SW #1

DST Test Number: 1

