



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Deutsch Oil Company
 8300 E. 22nd St. N.
 Wichita, Ks. 67226
 ATTN: Logan Walker

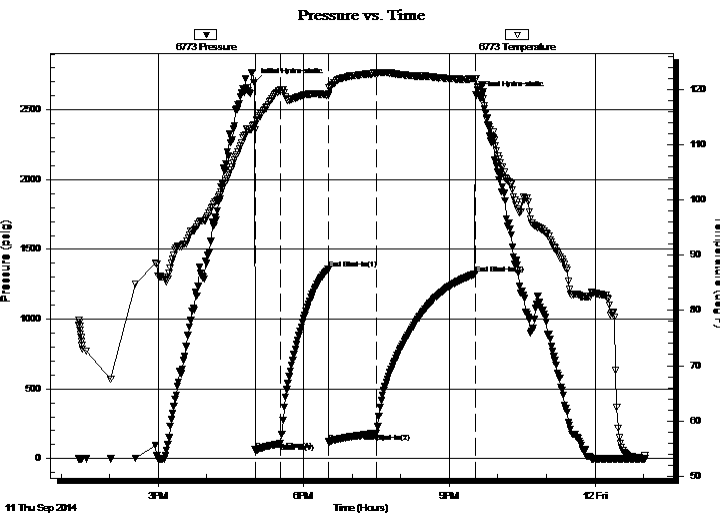
35-29s-24w Ford Co. Ks.
Waneta # 1-35
 Job Ticket: 54145 **DST#: 2**
 Test Start: 2014.09.11 @ 13:21:38

GENERAL INFORMATION:

Formation: **Marrow**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:00:23
 Time Test Ended: 01:02:08
 Interval: **5342.00 ft (KB) To 5397.00 ft (KB) (TVD)**
 Total Depth: 5397.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2582.00 ft (KB)
 2572.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6773 Inside
 Press @ Run Depth: 183.62 psig @ 5343.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.11 End Date: 2014.09.12 Last Calib.: 2014.09.12
 Start Time: 13:21:43 End Time: 01:02:08 Time On Btm: 2014.09.11 @ 16:58:23
 Time Off Btm: 2014.09.11 @ 21:32:53

TEST COMMENT: IF: Fair blow . Surf., - 9".
 IS: No blow .
 FF: Fair blow . Surf., - 7 1/2".
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2695.77	113.54	Initial Hydro-static
2	56.45	113.63	Open To Flow (1)
33	107.44	119.96	Shut-In(1)
92	1358.57	118.91	End Shut-In(1)
93	119.32	119.14	Open To Flow (2)
152	183.62	122.98	Shut-In(2)
274	1322.62	121.98	End Shut-In(2)
275	2605.33	121.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOGWCM 5%g 45%w 50%m	0.87
62.00	SOGWCM 5%g 25%w 70%m	0.87
62.00	SOGWCM 5%g 10%w 85%m	0.87
62.00	SOGWCM 3%g 37%w 60%m	0.87
67.00	SOMCW 25%m 75%w	0.94
0.00	RW .18 @ 56 = 52000 chlorides	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

Deutsch Oil Company

35-29s-24w Ford Co. Ks.

8300 E. 22nd St. N.
Wichita, Ks. 67226

Waneta # 1-35

Job Ticket: 54145

DST#: 2

ATTN: Logan Walker

Test Start: 2014.09.11 @ 13:21:38

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:

52000 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	SOGWCM 5%g 45%w 50%m	0.870
62.00	SOGWCM 5%g 25%w 70%m	0.870
62.00	SOGWCM 5%g 10%w 85%m	0.870
62.00	SOGWCM 3%g 37%w 60%m	0.870
67.00	SOMCW 25%m 75%w	0.940
0.00	RW .18 @ 56 = 52000 chlorides	0.000

Total Length: 315.00 ft

Total Volume: 4.420 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6773

Inside

Deutsch Oil Company

Maneta # 1-35

DST Test Number: 2

