

DRILL STEM TEST REPORT

Prepared For: **TNT Engineering Inc.**

3711 Maplewood Ste.201 Wichita Falls TX
76308-2101

ATTN: Ed Greaves

24 33 30 Meade KS

Ballard 24-1

Start Date: 2008.08.02 @ 14:00:00

End Date: 2008.08.03 @ 00:46:30

Job Ticket #: 30987 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
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**TRILOBITE
TESTING, INC.**

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Ballard 24-1

3711 Maplewood Ste.201 Wichita Falls TX. 76308-2101

24 33 30 Meade KS

Job Ticket: 30987

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Test Start: 2008.08.02 @ 14:00:00

GENERAL INFORMATION:

Formation: **Upper Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:32:00

Time Test Ended: 00:46:30

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **5772.00 ft (KB) To 5790.00 ft (KB) (TVD)**

Reference Elevations: 2709.00 ft (KB)

Total Depth: 5790.00 ft (KB) (TVD)

2697.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6751 Inside

Press@RunDepth: 23.22 psig @ 5778.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2008.08.02

End Date: 2008.08.03

Last Calib.: 2008.08.03

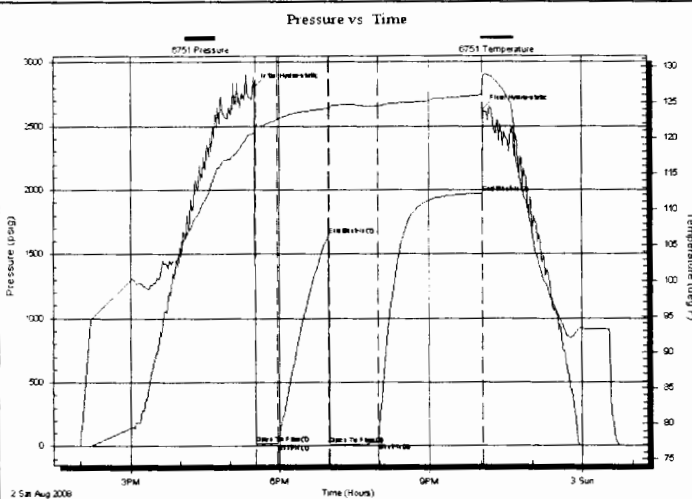
Start Time: 14:00:01

End Time: 00:46:30

Time On Btm: 2008.08.02 @ 17:30:45

Time Off Btm: 2008.08.02 @ 22:03:15

TEST COMMENT: IF Strong blow BOB ASAO No GTS
ISI No blow back
FF Strong blow BOB ASAO No GTS
FSI Weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2808.91	120.72	Initial Hydro-static
2	16.61	121.26	Open To Flow (1)
28	20.43	122.53	Shut-In(1)
90	1646.67	124.13	End Shut-In(1)
91	13.84	124.08	Open To Flow (2)
149	23.22	124.41	Shut-In(2)
272	1972.98	125.99	End Shut-In(2)
273	2635.63	128.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud.	0.05
0.00	GIP 5720 top to bottom	0.00

Gas Rates

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

TNT Engineering Inc.

Ballard 24-1

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DST#: 1

ATTN: Ed Greaves

Test Start: 2008.08.02 @ 14:00:00

Tool Information

Drill Pipe:	Length: 5400.00 ft	Diameter: 3.80 inches	Volume: 75.75 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 369.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose:	100000.0 lb
			Total Volume: 77.56 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	5772.00 ft			Final	90000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5754.00	
Hydraulic tool	5.00			5759.00	
Jars	5.00			5764.00	
Safety Joint	3.00			5767.00	
Packer	5.00			5772.00	23.00 Bottom Of Top Packer
Packer - Shale	4.00			5776.00	
Stubb	1.00			5777.00	
Perforations	1.00			5778.00	
Recorder	0.00	6751	Inside	5778.00	
Recorder	0.00	8355	Inside	5778.00	
Perforations	8.00			5786.00	
Bullnose	4.00			5790.00	18.00 Anchor Tool

Total Tool Length: 41.00



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FLUID SUMMARY

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DST#: 1

ATTN: Ed Greaves

Test Start: 2008.08.02 @ 14:00:00

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% mud.	0.049
0.00	GIP 5720 top to bottom	0.000

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

