

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Midwestern Exploration**

3500 S Boulevard Suite 2B Edmond OK
73013+5487

ATTN: Tom Williams

14-35-35 Stevens,KS

Marian 2-14

Start Date: 2010.10.27 @ 08:30:00

End Date: 2010.10.27 @ 19:02:19

Job Ticket #: 40293 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Midwestern Exploration

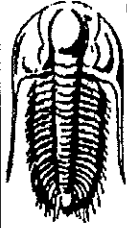
Marian 2-14

14-35-35 Stevens,KS

DST # 1

Chester Sand

2010.10.27



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Test Start: 2010.10.27 @ 08:30:00

GENERAL INFORMATION:

Formation: **Chester Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:13:05

Time Test Ended: 19:02:19

Test Type: Conventional Bottom Hole

Tester: Harley Davidson

Unit No: 33

Interval: **6580.00 ft (KB) To 6640.00 ft (KB) (TVD)**

Reference Elevations: 2963.00 ft (KB)

Total Depth: 6640.00 ft (KB) (TVD)

2952.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6772 Inside

Press@RunDepth: 74.36 psig @ 6582.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.27

End Date:

2010.10.27

Last Calib.: 2010.10.27

Start Time: 08:30:05

End Time:

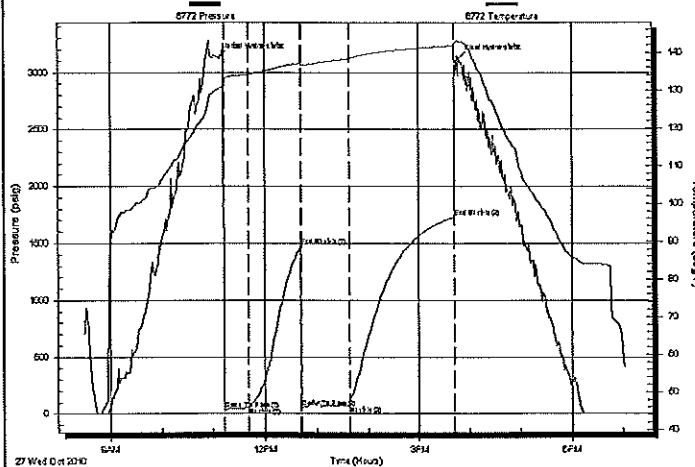
19:02:20

Time On Btm: 2010.10.27 @ 11:07:25

Time Off Btm: 2010.10.27 @ 15:47:24

TEST COMMENT: IF- Good building blow 14min. BOB.
IS- No blow back.
FF- Good building blow 7min. BOB.
FSI- No blow back.

Pressure vs. Time



PRESSURE SUMMARY

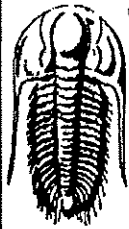
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3130.77	130.38	Initial Hydro-static
6	37.43	132.58	Open To Flow (1)
34	52.05	134.20	Shut-In(1)
94	1471.44	137.07	End Shut-In(1)
95	51.02	136.50	Open To Flow (2)
151	74.36	138.35	Shut-In(2)
275	1730.62	141.71	End Shut-In(2)
280	3125.25	142.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	600 GIP	0.00
110.00	5% oil 5% gas 90% mud	0.54

Gas Rates

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



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TOOL DIAGRAM

Midwestern Exploration

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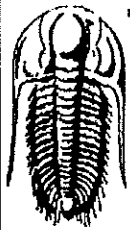
Test Start: 2010.10.27 @ 08:30:00

Tool Information

Drill Pipe:	Length: 5904.00 ft	Diameter: 3.80 inches	Volume: 82.82 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: 652.00 ft	Diameter: 2.25 inches	Volume: 3.21 bbl	Weight to Pull Loose: 120000.0 lb
		<u>Total Volume:</u>	<u>86.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 115000.0 lb
Depth to Top Packer:	6580.00 ft			Final 115000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			6553.00	
Shut In Tool	5.00			6558.00	
Hydraulic tool	5.00			6563.00	
Jars	5.00			6568.00	
Safety Joint	3.00			6571.00	
Packer	5.00			6576.00	28.00 Bottom Of Top Packer
Packer	4.00			6580.00	
Stubb	1.00			6581.00	
Perforations	1.00			6582.00	
Recorder	0.00	8355	Inside	6582.00	
Recorder	0.00	6772	Inside	6582.00	
Change Over Sub	1.00			6583.00	
Drill Pipe	31.00			6614.00	
Change Over Sub	1.00			6615.00	
Perforations	22.00			6637.00	
Bullnose	3.00			6640.00	60.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



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FLUID SUMMARY

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Marian 2-14
14-35-35 Stevens, KS
Job Ticket: 40293 **DST#: 1**
Test Start: 2010.10.27 @ 08:30:00

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1200.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	600 GIP	0.000
110.00	5% oil 5% gas 90% mud	0.541

Total Length: 110.00 ft Total Volume: 0.541 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 6772

Inside

Midwestern Exploration

14-35-35 Stevens, KS

DST Test Number: 1

