

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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Midwestern Exploration
 3500 S Boulevard Suite 2B Edmond OK
 73013+5487
 ATTN: Tom Williams

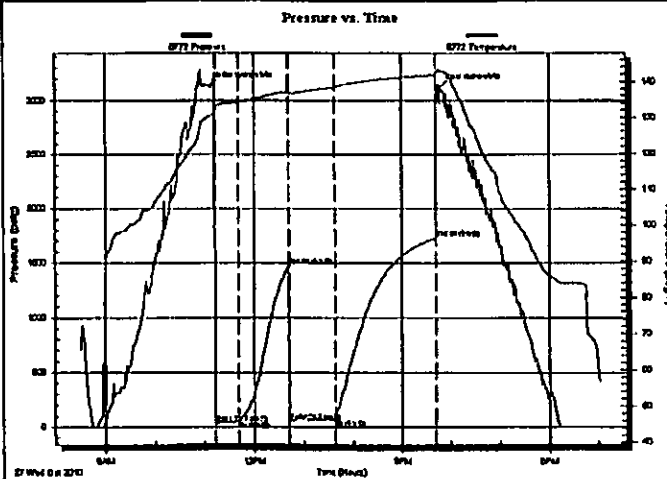
Marian 2-14
 14-35-35 Stevens, KS
 Job Ticket: 40293 DST#: 1
 Test Start: 2010.10.27 @ 08:30:00

GENERAL INFORMATION:

Formation: **Chester Sand**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **11:13:05**
 Tester: **Harley Davidson**
 Time Test Ended: **19:02:19**
 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 Blmt: **2010.10.27 @ 11:07:25**
 Time Off Blm: **2010.10.27 @ 15:47:24**

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



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

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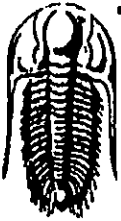
Marian 2-14
14-35-35 Stevens, KS
Job Ticket: 40293 DST#: 1
Test Start: 2010.10.27 @ 08:30:00

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: 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

Midwestern Exploration

Marlan 2-14

3500 S Boulevard Suite 2B Edmond OK
73013+5487

14-35-35 Stevens, KS

Job Ticket: 40293

DST#: 1

ATTN: Tom Williams

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:

bbf

Water Loss: 7.19 in²

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 bbf
0.00	600 GP	0.000
110.00	5% oil 5% gas 90% mud	0.541

Total Length: 110.00ft Total Volume: 0.541 bbf

Num Fluid Samples: 0

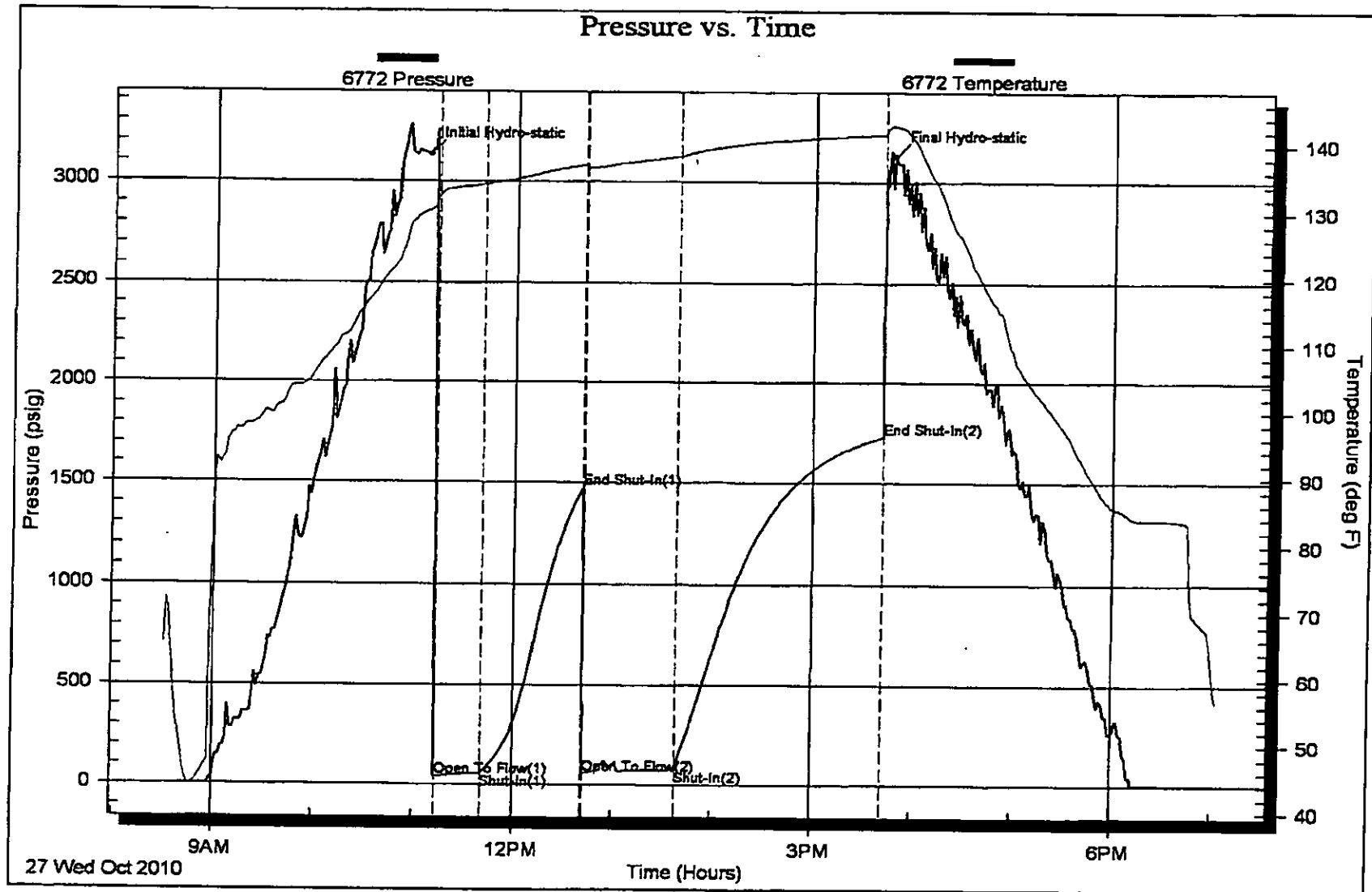
Num Gas Bombs: 0

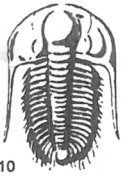
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
NOV 03 2010

Test Ticket

NO. 040293 12813

Well Name & No. Marian 2-14 Test No. 1 Date 10-27-10
 Company Midwestern Exploration Elevation 2963 KB 2952 GL
 Address 3500 S Boulevard Suite 2B Edmond OK. 73013+5487
 Co. Rep / Geo. Tom W. Rig H2 #1
 Location: Sec. 14 Twp. 35 Rge. 35 Co. Stevens State KS

Interval Tested 6580 - 6640 Zone Tested Chester Sd.
 Anchor Length 60 Drill Pipe Run 5904 Mud Wt. 9.1
 Top Packer Depth 6575 Drill Collars Run 652 Vis 48
 Bottom Packer Depth 6580 Wt. Pipe Run 0 WL 7.2
 Total Depth 6640 Chlorides 1200 ppm System LCM 6[#]
 Blow Description IF - Good building blow BOB 14m.h
ISI - No blow back
FF - Good building blow BOB 7m.h.
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>		<u>5</u>	<u>5</u>	<u>90</u>	
<u>600</u>	<u>GIP</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 110 BHT 142 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>3131</u>	<input type="checkbox"/> Test <u>1425</u>	T-On Location <u>7:30 Am</u>
(B) First Initial Flow <u>37</u>	<input type="checkbox"/> Jars <u>250</u>	T-Started <u>8:30 Am</u>
(C) First Final Flow <u>52</u>	<input type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:15 Am</u>
(D) Initial Shut-In <u>1471</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>3:45 Pm</u>
(E) Second Initial Flow <u>51</u>	<input type="checkbox"/> Hourly Standby <u>700 No Charge</u>	T-Out <u>7:30 Pm</u>
(F) Second Final Flow <u>74</u>	<input type="checkbox"/> Mileage <u>80</u>	Comments _____
(G) Final Shut-In <u>1731</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>3125</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer <u>260</u>
	<input type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u>280</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>2440.00</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>2440.00</u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't _____
	Sub Total <u>2230</u>	

Approved By Billy [Signature] Our Representative [Signature]

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