



DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co. Inc.**

101 S. 5th St.
Kiowa, KS 67070-1912

ATTN: Arden Ratzlaff

Molz #23

10-35s-12w Barber,KS

Start Date: 2013.11.12 @ 17:50:57

End Date: 2013.11.13 @ 02:54:27

Job Ticket #: 52472 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.19 @ 09:46:39



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc.

10-35s-12w Barber,KS

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Kiowa, KS 67070-1912

Molz #23

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Test Start: 2013.11.12 @ 17:50:57

Tool Information

Drill Pipe:	Length: 4338.00 ft	Diameter: 3.80 inches	Volume: 60.85 bbl	Tool Weight: 2100.00 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: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 61.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4491.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4474.00	
Hydraulic tool	5.00			4479.00	
Safety Joint	2.00			4481.00	
Packer	5.00			4486.00	22.00 Bottom Of Top Packer
Packer	5.00			4491.00	
Stubb	1.00			4492.00	
Recorder	0.00	8790	Inside	4492.00	
Recorder	0.00	8792	Outside	4492.00	
Perforations	5.00			4497.00	
Blank Spacing	34.00			4531.00	
Perforations	10.00			4541.00	
Bullnose	3.00			4544.00	53.00 Bottom Packers & Anchor

Total Tool Length: 75.00



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FLUID SUMMARY

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DST#: 1

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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:

95000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
800.00	MCGW 5%gas, 20%mud, 80%w tr	9.837
0.00	60' GIP	0.000

Total Length: 800.00 ft Total Volume: 9.837 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

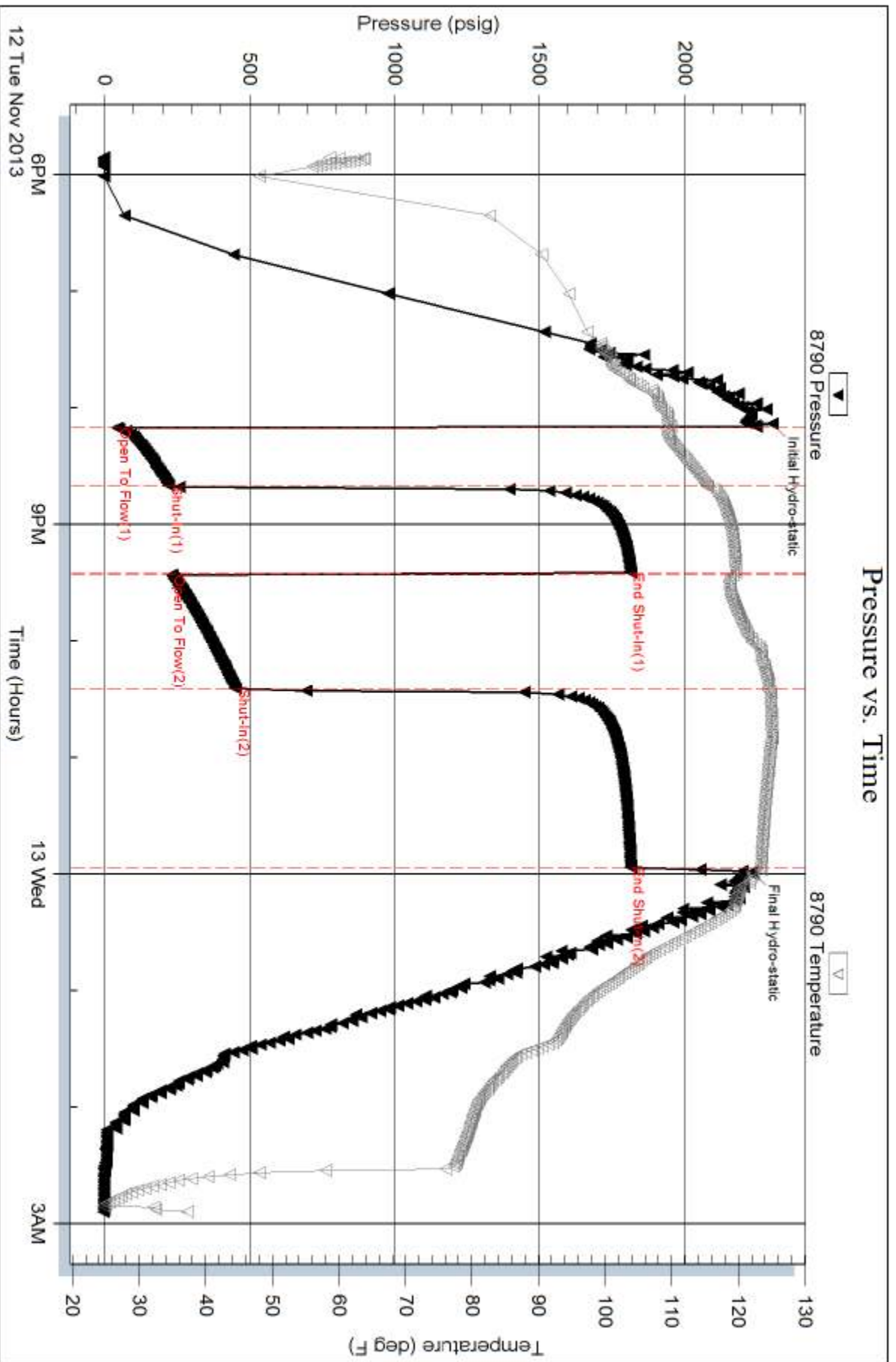
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

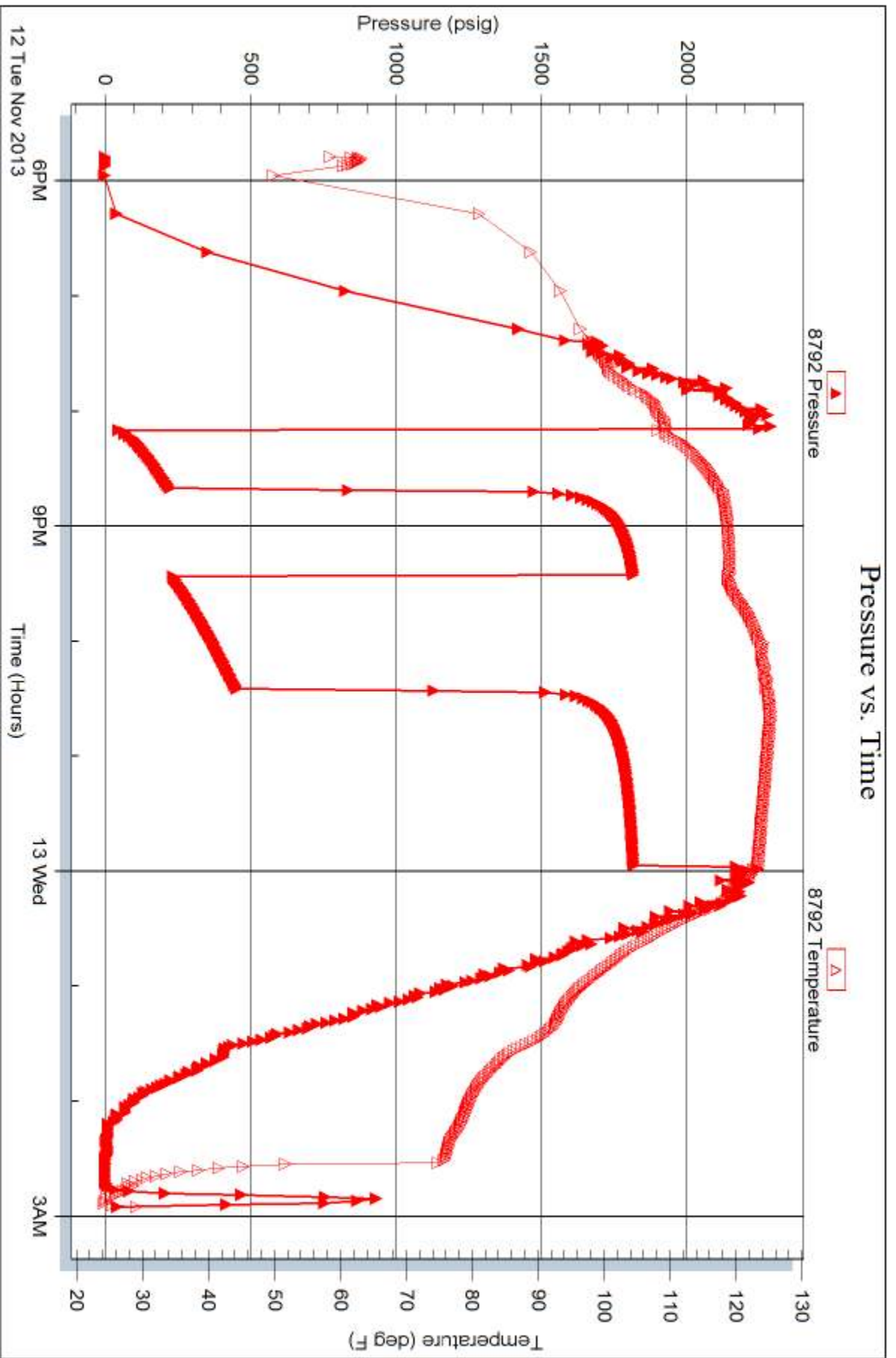


Serial #: 8792

Outside Chierfain Oil Co. Inc.

Molz #23

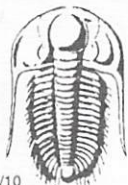
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 52472

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52472

Well Name & No. Molz 23 Test No. 1 Date 11-12-13
 Company Chieftain Oil Co., Inc. Elevation 1444 KB 1432 GL
 Address 101 S. 5th St. Kiowa, KS 67070-1912
 Co. Rep / Geo. Arden Ratzlaff Rig Fossil #3
 Location: Sec. 10 Twp. 35s. Rge. 12w. Co. Barber State KS

Interval Tested 4491-4544 Zone Tested LKC
 Anchor Length 53 Drill Pipe Run 4338 Mud Wt. 9.4
 Top Packer Depth 4486 Drill Collars Run 152 Vis 48
 Bottom Packer Depth 4491 Wt. Pipe Run ∅ WL 7.5
 Total Depth 4544 Chlorides 4100 ppm System LCM ∅

Blow Description IFI: Strong blow, 1/4" - BoB@10 min.
ISI: Weak surf. blow
FF: Strong blow, 1/4" - BoB@12 min. No GTS.
FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>	<u>100</u>			
<u>800</u>	<u>MLGW</u>	<u>5</u>	<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 860 BHT 124 Gravity n/c API RW 0.2 @ 28 °F Chlorides 95000 ppm

(A) Initial Hydrostatic 2302 Test 1250 T-On Location 1730
 (B) First Initial Flow 43 Jars _____ T-Started 1751
 (C) First Final Flow 223 Safety Joint 75 T-Open 2010
 (D) Initial Shut-In 1815 Circ Sub _____ T-Pulled 2355
 (E) Second Initial Flow 241 Hourly Standby _____ T-Out 0257
 (F) Second Final Flow 453 Mileage 100 155 Comments _____
 (G) Final Shut-In 1816 Sampler _____ loaded tools 11/17 14:15
 (H) Final Hydrostatic 2235 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 3200
 Final Flow 60 Day Standby 5 days 1d 83.25h Total 4680
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1480

Approved By _____ Our Representative Ryan Reynolds

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