



DRILL STEM TEST REPORT

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

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

ATTN: Arden Ratzlaff / Ron

Lorraine B #1

27-33s.-11w. Barber,KS

Start Date: 2013.10.08 @ 16:46:18

End Date: 2013.10.09 @ 01:33:18

Job Ticket #: 52461 DST #: 1

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co. Inc.

27-33s.-11w. Barber, KS

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

Lorraine B #1

Job Ticket: 52461

DST#: 1

ATTN: Arden Ratzlaff / Ron

Test Start: 2013.10.08 @ 16:46:18

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:21:18

Time Test Ended: 01:33:18

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Reynolds

Unit No: 48

Interval: 4823.00 ft (KB) To 4850.00 ft (KB) (TVD)

Reference Elevations: 1461.00 ft (KB)

Total Depth: 4850.00 ft (KB) (TVD)

1449.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8790

Inside

Press @ Run Depth: 102.78 psig @ 4824.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.08

End Date:

2013.10.09

Last Calib.:

2013.10.09

Start Time: 16:46:23

End Time:

01:33:18

Time On Btm:

2013.10.08 @ 19:20:18

Time Off Btm:

2013.10.08 @ 22:36:48

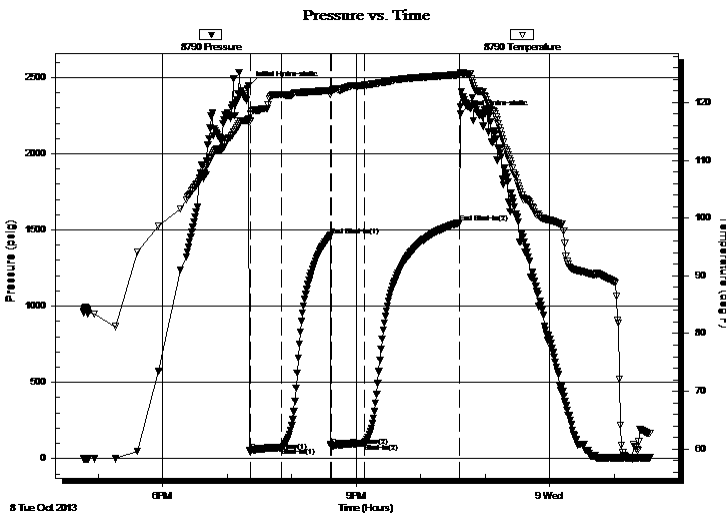
TEST COMMENT: IF: Fair blow . 1/2" - 4"

IS: No blow

FF: Weak blow . 1/2" - dead @ 27min.

FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2447.67	117.19	Initial Hydro-static
1	48.05	116.92	Open To Flow (1)
31	72.55	121.36	Shut-In(1)
76	1463.48	122.13	End Shut-In(1)
77	82.89	121.96	Open To Flow (2)
108	102.78	123.01	Shut-In(2)
196	1548.69	124.83	End Shut-In(2)
197	2259.27	125.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	O sptd MW trc%oil, 40%mud, 60%w tr	0.30
150.00	VSLI OCGM trc%oil, 10%gas, 90%mud	0.74

Gas Rates

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



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TESTING, INC.**

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TOOL DIAGRAM

Chieftain Oil Co. Inc.

27-33s.-11w. Barber,KS

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

Lorraine B #1

Job Ticket: 52461

DST#: 1

ATTN: Arden Ratzlaff / Ron

Test Start: 2013.10.08 @ 16:46:18

Tool Information

Drill Pipe:	Length: 4621.00 ft	Diameter: 3.80 inches	Volume: 64.82 bbl	Tool Weight: 2400.00 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: 212.00 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4823.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	49.00 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			4806.00	
Hydraulic tool	5.00			4811.00	
Safety Joint	2.00			4813.00	
Packer	5.00			4818.00	22.00 Bottom Of Top Packer
Packer	5.00			4823.00	
Stubb	1.00			4824.00	
Recorder	0.00	8790	Inside	4824.00	
Recorder	0.00	8792	Outside	4824.00	
Perforations	23.00			4847.00	
Bullnose	3.00			4850.00	27.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co. Inc.

27-33s.-11w. Barber,KS

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

Lorraine B #1

Job Ticket: 52461

DST#: 1

ATTN: Arden Ratzlaff / Ron

Test Start: 2013.10.08 @ 16:46:18

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:

98000 ppm

Viscosity: 71.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	O sptd MW trc%oil, 40%mud, 60%w tr	0.295
150.00	VSLI OCGM trc%oil, 10%gas, 90%mud	0.738

Total Length: 210.00 ft

Total Volume: 1.033 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

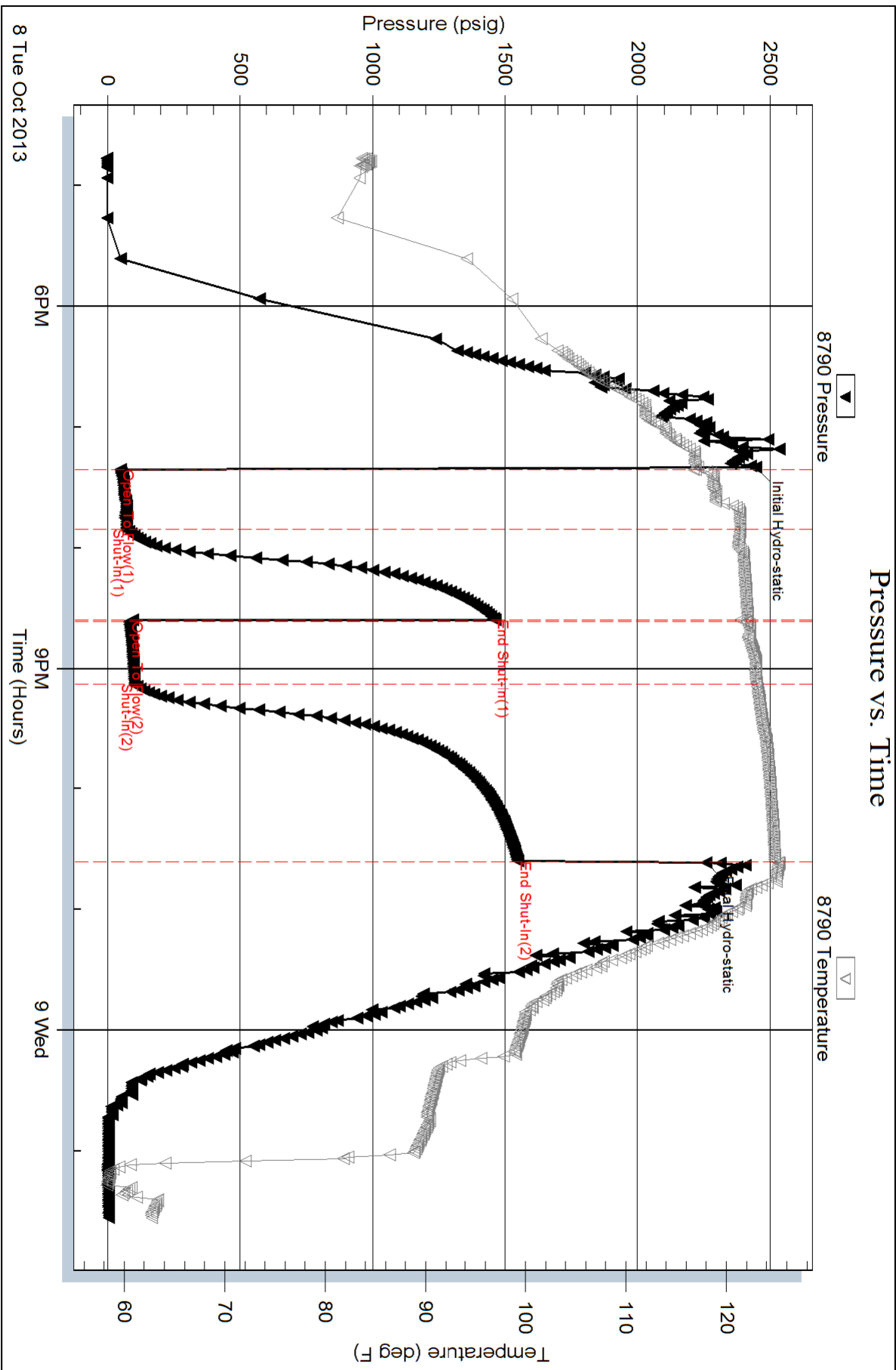
Serial #: 8790

Inside

Chieftain Oil Co. Inc.

Lorraine B #1

DST Test Number: 1

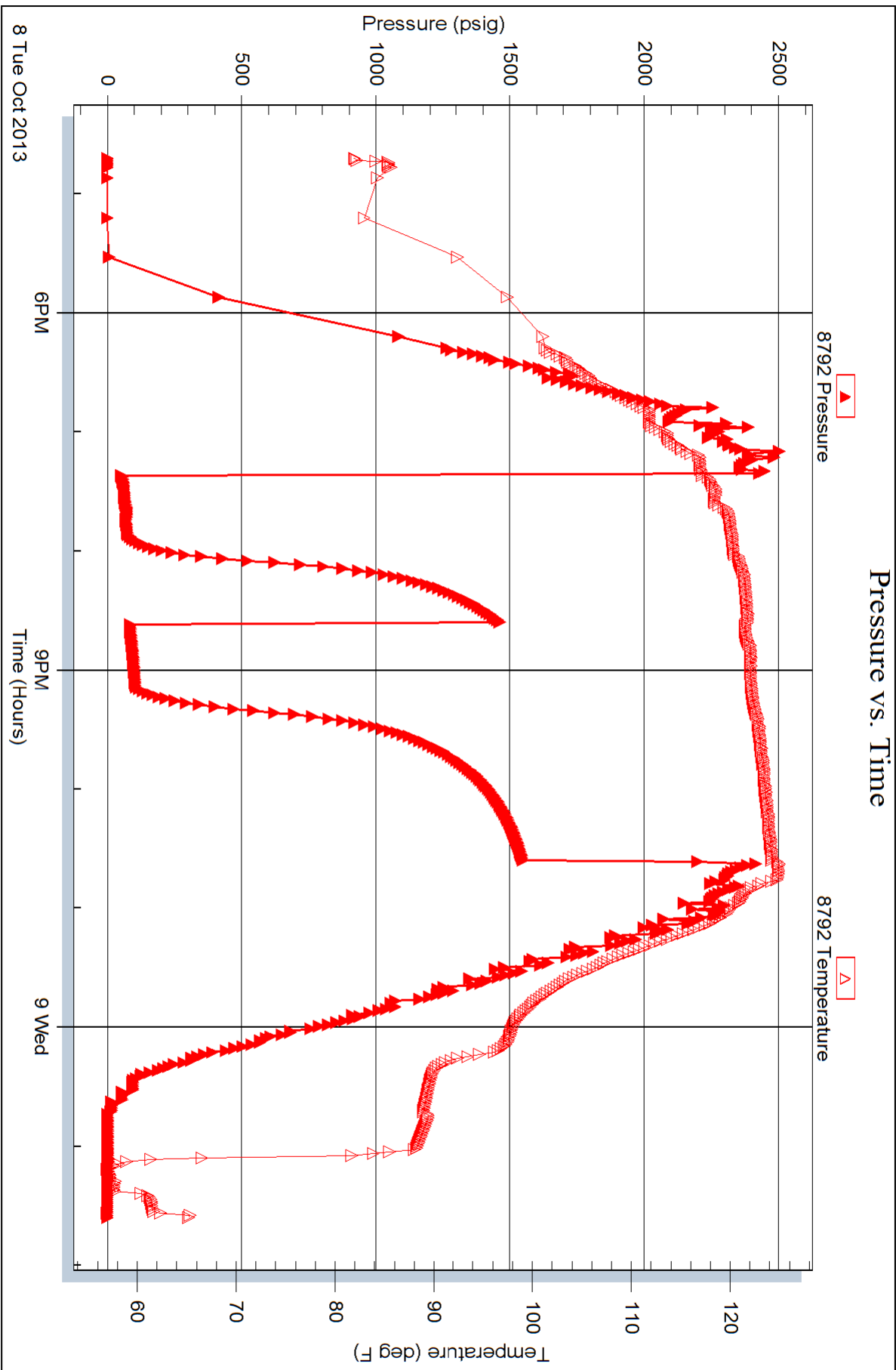


Serial #: 8792

Outside Chieftain Oil Co. Inc.

Lorraine B #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52461

Well Name & No. Lorraine "B" # 1 Test No. 1 Date 10-8-13
 Company Chieftain Oil Co. Inc. Elevation 1461 KB 1449 GL
 Address 101 S. 5th St. Kiowa, KS 67070-1912
 Co. Rep / Geo. Ron Molz / Arden Ratzlaff Rig Fossil #3
 Location: Sec. 27 Twp. 33s. Rge. 11w. Co. Barber State KS

Interval Tested 4823 - 4850 Zone Tested Miss.
 Anchor Length 27' Drill Pipe Run 4621 Mud Wt. 9.3
 Top Packer Depth 4818 Drill Collars Run 212 Vis 71
 Bottom Packer Depth 4823 Wt. Pipe Run Ø WL 8.0
 Total Depth 4850 Chlorides 4900 ppm System LCM 3#
 Blow Description IF: Fair blow, 1/2" - 4" ISI: No blow
FF: Weak blow, 1/2" - Dead @ 27 min. FSL: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>VSLI OCGM</u>	<u>10</u>	<u>Trk.</u>	<u>90</u>	
<u>60</u>	<u>O Sptd MW</u>		<u>Trk.</u>	<u>60</u>	<u>40</u>

Rec Total 210 BHT 125 Gravity N/C API RW 09 @ 60 °F Chlorides 98000 ppm
 (A) Initial Hydrostatic 2448 Test 1250 T-On Location 1545
 (B) First Initial Flow 48 Jars No jars (DO NOT CHARGE) T-Started 1646
 (C) First Final Flow 73 Safety Joint 75 T-Open 1921
 (D) Initial Shut-In 1464 Circ Sub _____ T-Pulled 2237
 (E) Second Initial Flow 83 Hourly Standby _____ T-Out 0133
 (F) Second Final Flow 103 Mileage 96 148.80
 (G) Final Shut-In 1549 Sampler _____
 (H) Final Hydrostatic 2259 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1473.80
 Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 90
 Sub Total 0
 Total 1473.80
 MP/DST Disc't _____

Approved By Arden Ratzlaff Our Representative Ryan Reynolds
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