

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co.**

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

6-35S-11W Barber KS

Bog Chief # SWD 1

Start Date: 2011.03.08 @ 09:39:01

End Date: 2011.03.08 @ 16:41:01

Job Ticket #: 041596 DST #: 1

Trilobite Testing, Inc
PO Box 1733 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.

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Bog Chief # SWD 1

6-35S-11W Barber KS

Job Ticket: 041596 **DST#: 1**

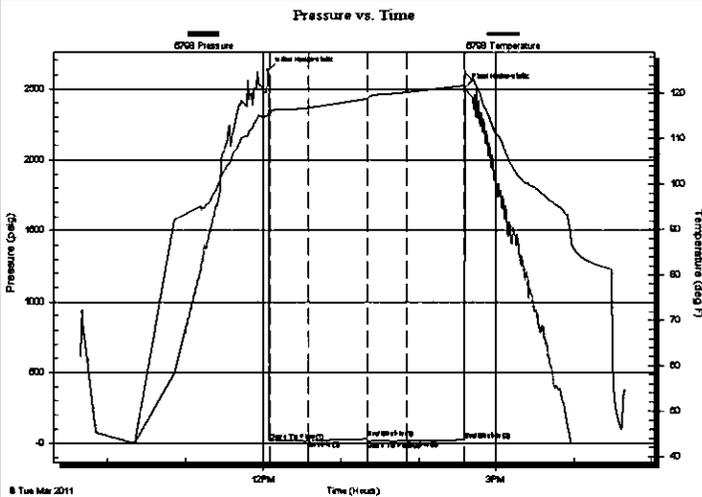
Test Start: 2011.03.08 @ 09:39:01

GENERAL INFORMATION:

Formation: **Misener**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **12:04:31**
 Time Test Ended: **16:41:01**
 Interval: **5148.00 ft (KB) To 5162.00 ft (KB) (TVD)**
 Total Depth: **5162.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Leal Cason**
 Unit No: **45**
 Reference Elevations: **1403.00 ft (KB)**
1393.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 6798 **Inside**
 Press@RunDepth: **19.62 psig @ 5149.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.03.08** End Date: **2011.03.08** Last Calib.: **2011.03.08**
 Start Time: **09:39:02** End Time: **16:41:01** Time On Btm: **2011.03.08 @ 12:03:01**
 Time Off Btm: **2011.03.08 @ 14:35:46**

TEST COMMENT: IF: Weak Surface Blow
 IS: No Blow back
 FF: No Blow
 FS: No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2629.33	115.48	Initial Hydro-static
2	18.57	115.11	Open To Flow (1)
32	19.32	116.81	Shut-In(1)
77	32.59	118.79	End Shut-In(1)
78	16.44	118.79	Open To Flow (2)
108	19.62	120.23	Shut-In(2)
152	25.99	121.70	End Shut-In(2)
153	2509.90	124.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

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



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TOOL DIAGRAM

Chieftain Oil Co.

Bog Chief # SWD 1

PO Box 124
Kiowa, KS 67070

6-35S-11W Barber KS

Job Ticket: 041596

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2011.03.08 @ 09:39:01

Tool Information

Drill Pipe:	Length: 4896.00 ft	Diameter: 3.80 inches	Volume: 68.68 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: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 74000.00 lb
		Total Volume: 69.85 bbl		Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	5148.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			5130.00	
Hydraulic tool	5.00			5135.00	
Safety Joint	3.00			5138.00	
Packer	5.00			5143.00	23.00 Bottom Of Top Packer
Packer	5.00			5148.00	
Stubb	1.00			5149.00	
Recorder	0.00	6798	Inside	5149.00	
Recorder	0.00	8367	Outside	5149.00	
Perforations	10.00			5159.00	
Bullnose	3.00			5162.00	14.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



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FLUID SUMMARY

Chieftain Oil Co.

Bog Chief # SWD 1

PO Box 124
Kiowa, KS 67070

6-35S-11W Barber KS

Job Ticket: 041596 **DST#: 1**

ATTN: Arden Ratzlaff

Test Start: 2011.03.08 @ 09:39:01

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: 67.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

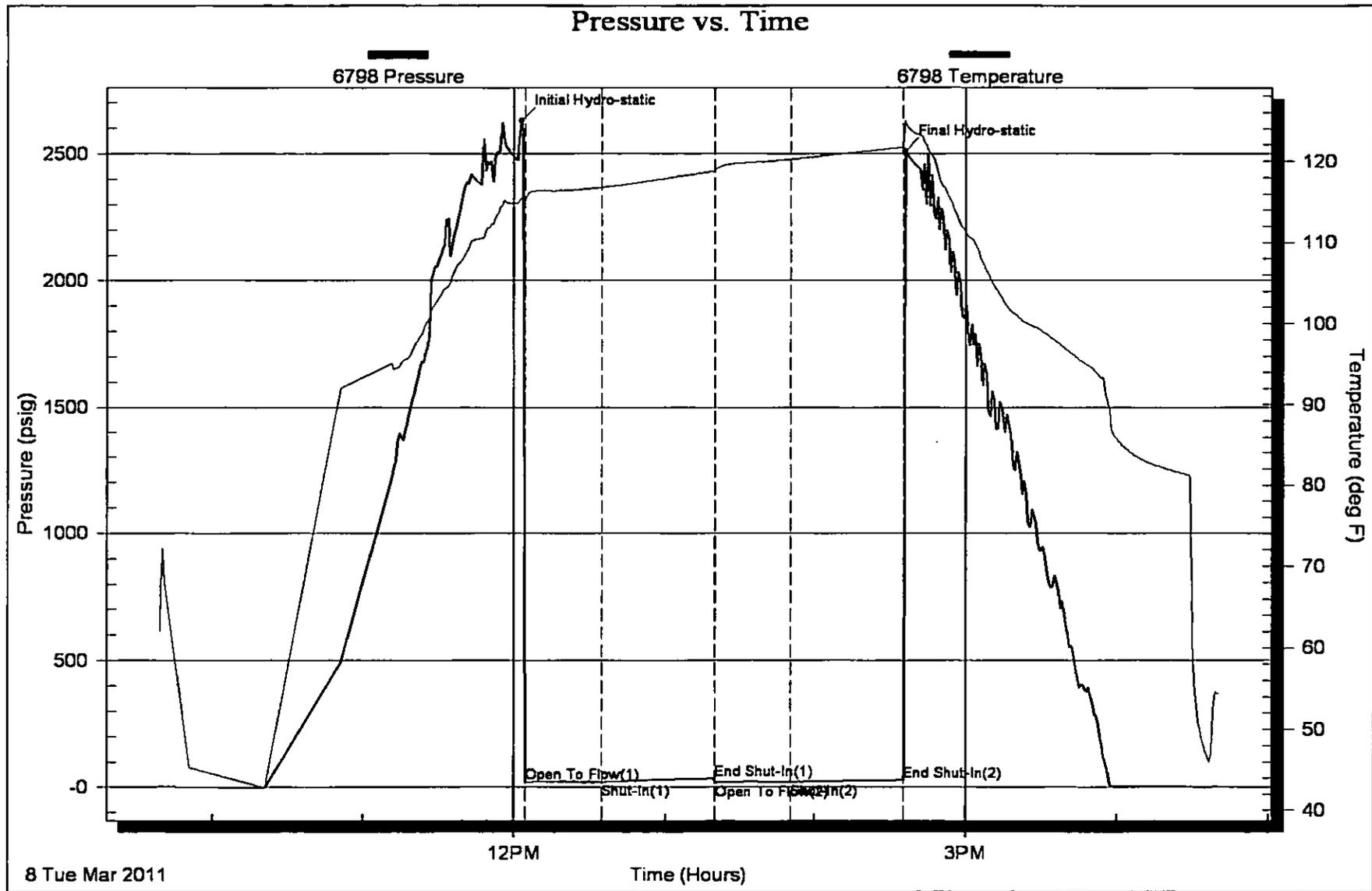
Length ft	Description	Volume bbl
2.00	Mud	0.010

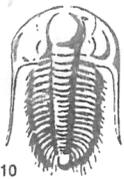
Total Length: 2.00 ft Total Volume: 0.010 bbl

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

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MAR 11 2011

Test Ticket

NO. 041596 15488

Well Name & No. Big Chief # SWD 1 Test No. 1 Date 03/08/11
 Company Chieftain oil co Elevation 1403 KB 1393 GL
 Address PO BOX 124 Kiowa, KS 67070
 Co. Rep / Geo. Arden Ratzlaff Rig Hardt Rig #1
 Location: Sec. 6 Twp. 35S Rge. 11W Co. Barber State KS

Interval Tested 5148 - 5162 Zone Tested Misener
 Anchor Length 14 Drill Pipe Run 4896 Mud Wt. 9.2
 Top Packer Depth 5143 Drill Collars Run 238 Vis 67
 Bottom Packer Depth 5148 Wt. Pipe Run 0 WL 7.2
 Total Depth 5162 Chlorides 3500 ppm System LCM 3#

Blow Description IF: weak surface Blow

ISI: NO Blowback
FF: NO Blow
FSI: NO Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>				

Rec Total 2 BHT 121° Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2629</u>	<input checked="" type="checkbox"/> Test <u>1325</u>	T-On Location <u>09:00</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars	T-Started <u>09:39</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75'</u>	T-Open <u>12:04</u>
(D) Initial Shut-In <u>33</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>14:35</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>16:41</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>1000</u> <u>125'</u>	Comments
(G) Final Shut-In <u>26</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2510</u>	<input type="checkbox"/> Straddle	

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 8
 Total 1525
 MP/DST Disc't

Sub Total 1525

Approved By Arden Ratzlaff Our Representative [Signature]

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