

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Jerry Smith

33-34s-13w Barber,KS

Gillig #1

Start Date: 2011.06.16 @ 04:16:22

End Date: 2011.06.16 @ 16:05:07

Job Ticket #: 042461 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Chieftain Oil Co

Gillig #1

33-34s-13w Barber,KS

DST # 1

Simpson

2011.06.16



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Co

Gillig #1

PO Box 124
Kiowa, KS 67070

33-34s-13w Barber, KS

Job Ticket: 042461 DST#: 1

ATTN: Jerry Smith

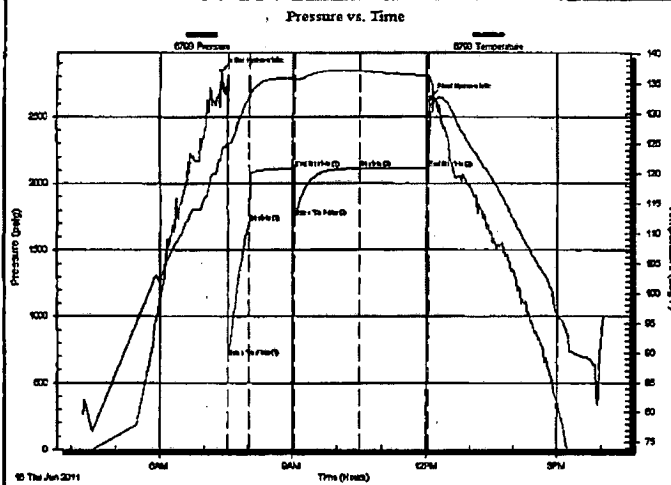
Test Start: 2011.06.16 @ 04:16:22

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 07:32:52
 Tester: Leal Cason
 Time Test Ended: 16:05:07
 Unit No: 45
 Interval: **5352.00 ft (KB) To 5410.00 ft (KB) (TVD)**
 Reference Elevations: 1596.00 ft (KB)
 Total Depth: 5410.00 ft (KB) (TVD) 1588.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: **6798** Inside
 Press@RunDepth: 2112.71 psig @ 5353.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.06.16 End Date: 2011.06.16 Last Calib.: 2011.06.16
 Start Time: 04:16:23 End Time: 16:05:07 Time On Btm: 2011.06.16 @ 07:22:22
 Time Off Btm: 2011.06.16 @ 12:04:52

TEST COMMENT: IF: Strong Blow, BOB in 45 seconds
 1st Bled Off, 1 inch Blow back
 FF: Strong Blow, BOB in 1 minute, Died to 7 inches
 FSt: Bled Off, 1 inch Blow back



PRESSURE SUMMARY

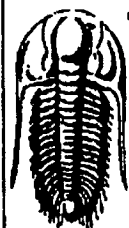
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2838.80	123.03	Initial Hydro-static
11	693.14	124.88	Open To Flow (1)
39	1708.46	132.94	Shut-in(1)
100	2112.34	135.89	End Shut-in(1)
101	1745.25	135.79	Open To Flow (2)
188	2112.71	137.17	Shut-in(2)
281	2116.36	136.44	End Shut-in(2)
283	2649.68	135.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbt)
3990.00	Water	53.70
180.00	MCW 20%M 80%W	2.52
240.00	WCM 35%W 65%M	3.37

Gas Rates

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



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TOOL DIAGRAM

Chieftain Oil Co

Gillig #1

PO Box 124
Kiowa, KS 67070

33-34s-13w Barber, KS

Job Ticket: 042461

DST#: 1

ATTN: Jerry Smith

Test Start: 2011.06.16 @ 04:16:22

Tool Information

Drill Pipe:	Length: 5104.00 ft	Diameter: 3.80 inches	Volume: 71.60 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 249.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 72.82 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5352.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5334.00	
Hydraulic tool	5.00			5339.00	
Safety Joint	3.00			5342.00	
Packer	5.00			5347.00	23.00 Bottom Of Top Packer
Packer	5.00			5352.00	
Stubb	1.00			5353.00	
Recorder	0.00	6798	Inside	5353.00	
Recorder	0.00	8367	Outside	5353.00	
Perforations	11.00			5364.00	
Change Over Sub	1.00			5365.00	
Drill Pipe	31.00			5396.00	
Change Over Sub	1.00			5397.00	
Perforations	10.00			5407.00	
Bullnose	3.00			5410.00	58.00 Bottom Packers & Anchor

Total Tool Length: 81.00



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FLUID SUMMARY

Chieftain Oil Co

Gillig #1

PO Box 124
Kiowa, KS 67070

33-34s-13w Barber, KS

Job Ticket: 042461 DST#: 1

ATTN: Jerry Smith

Test Start: 2011.06.16 @ 04:16:22

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:

86000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
3990.00	Water	53.701
180.00	MCM 20%M 80%W	2.525
240.00	WCM 35%W 65%M	3.367

Total Length: 4410.00ft Total Volume: 59.593 bbl

Num Fluid Samples: 0

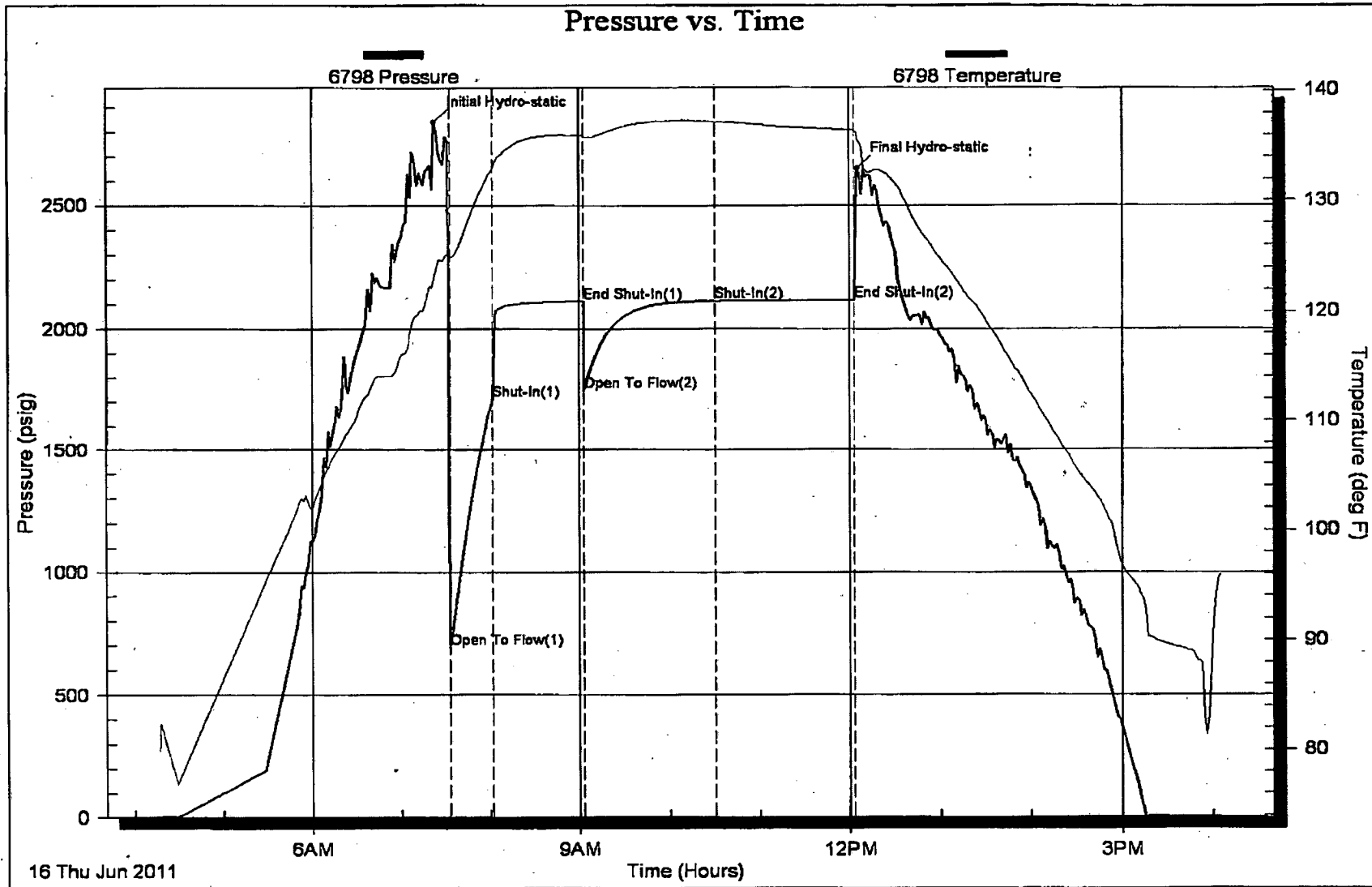
Num Gas Bombs: 0

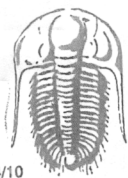
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .08 @ 80 degrees





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 042461 5860

RECEIVED JUN 20 2011

Well Name & No. Gillig #1 Test No. 1 Date 06/16/11
 Company Chieftain Oil Co. Elevation 1596 KB 1588 GL
 Address Po Box 124 Kiowa, ks 67070
 Co. Rep / Geo. Jerry Smith Rig Fossil Rig 2
 Location: Sec. 33 Twp. 34S Rge. 13W Co. Barber State Ks

Interval Tested 5352 - 5410 Zone Tested Simpson
 Anchor Length 58 Drill Pipe Run 5104 Mud Wt. 9.1
 Top Packer Depth 5347 Drill Collars Run 249 Vis 61
 Bottom Packer Depth 5352 Wt. Pipe Run 0 WL 8.0
 Total Depth 5410 Chlorides 3500 ppm System LCM 4#

Blow Description IF: Strong Blow, BOB in 45 seconds
ISI: Bled off, 1 inch Blowback
FF: Strong Blow, BOB in 1 minute Died off to 7 inches
FSI: Bled off, 1 inch Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>WCM</u>			<u>35</u>	<u>65</u>
<u>180</u>	<u>MCL</u>			<u>80</u>	<u>20</u>
<u>3990</u>	<u>Water</u>				

Rec Total 4410 BHT 136° Gravity N/C API RW .08 @ 80 °F Chlorides 86000 ppm

(A) Initial Hydrostatic 2839 Test 1325 T-On Location 03:45
 (B) First Initial Flow 693 Jars _____ T-Started 04:16
 (C) First Final Flow 1708 Safety Joint 75 T-Open 07:32
 (D) Initial Shut-In 2112 Circ Sub _____ T-Pulled 12:02
 (E) Second Initial Flow 1745 Hourly Standby 1 1/4 hrs 125 T-Out 16:05
 (F) Second Final Flow 2112 Mileage (130) 182 Comments _____
 (G) Final Shut-In 2116 Sampler _____
 (H) Final Hydrostatic 2650 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 60 Extra Recorder _____ Sub Total 0
 Final Flow 90 Day Standby _____ Total 1707
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1707

Approved By [Signature] Our Representative [Signature]

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