

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Jerry Smith

33-34s-13w Barber,KS

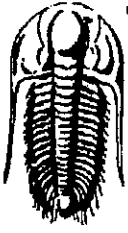
Gillig #1

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
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TESTING, INC**

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Chieftain Oil Co

Gillig #1

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Job Ticket: 042461

DST#: 1

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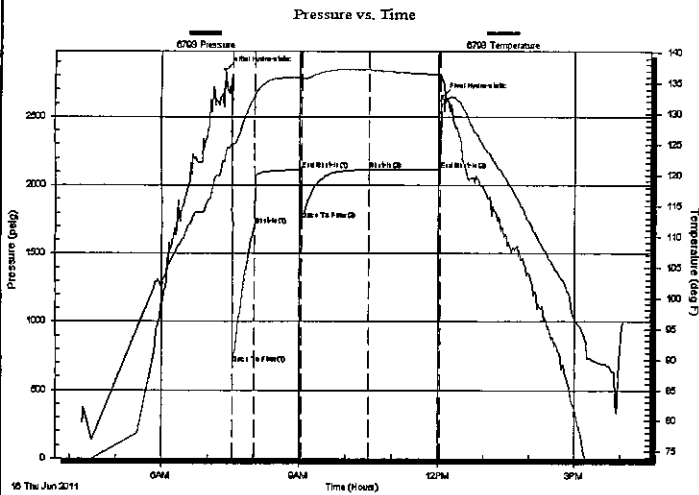
Test Start: 2011.06.16 @ 04:16:22

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:32:52
 Time Test Ended: 16:05:07
 Interval: **5352.00 ft (KB) To 5410.00 ft (KB) (TVD)**
 Total Depth: **5410.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Leal Cason**
 Unit No: **45**
 Reference Elevations: **1596.00 ft (KB)**
1588.00 ft (CF)
 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
 IS: Bled Off, 1 inch Blow back
 FF: Strong Blow, BOB in 1 minute, Died to 7 inches
 FS: Bled Off, 1 inch Blow back



PRESSURE SUMMARY

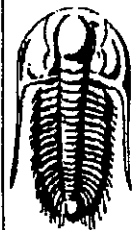
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2838.80	123.03	Initial Hydro-static
11	693.14	124.88	Open To Flow (1)
39	1708.46	132.94	Shut-In(1)
100	2112.34	135.89	End Shut-In(1)
101	1745.25	135.79	Open To Flow (2)
188	2112.71	137.17	Shut-In(2)
281	2116.36	136.44	End Shut-In(2)
283	2649.68	135.59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

Recovery

Length (ft)	Description	Volume (bbl)
3990.00	Water	53.70
180.00	M CW 20% M 80% W	2.52
240.00	W CM 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

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Job Ticket: 042461

DST#: 1

ATTN: Jerry Smith

Test Start: 2011.06.16 @ 04:16:22

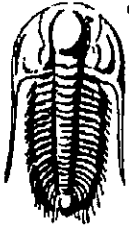
Tool Information

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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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:

bbf

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

Total Length: 4410.00 ft Total Volume: 59.593 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .08 @ 80 degrees

