

**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chieftain Oil Company, Inc

P.O.Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Yates 'A' #5

31-34s-11w Barber KS

Job Ticket: 36925

DST#: 1

Test Start: 2010.07.09 @ 18:14:51

GENERAL INFORMATION:

Formation: **Misener**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 20:47:51

Time Test Ended: 11:23:21

Test Type: **Conventional Bottom Hole**

Tester: **Jerry Adams**

Unit No: **45**

Interval: **5034.00 ft (KB) To 5050.00 ft (KB) (TVD)**

Total Depth: **5050.00 ft (KB) (TVD)**

Hole Diameter: **7.88 Inches** Hole Condition: **Fair**

Reference Elevations: **1365.00 ft (KB)**

1356.00 ft (CF)

KB to GR/CF: **9.00 ft**

Serial #: **6798**

Inside

Press@RunDepth: **1164.35 psig @ 5035.00 ft (KB)**

Start Date: **2010.07.09**

End Date:

2010.07.10

Capacity: **8000.00 psig**

Last Calib.: **2010.07.10**

Start Time: **18:14:52**

End Time:

11:23:20

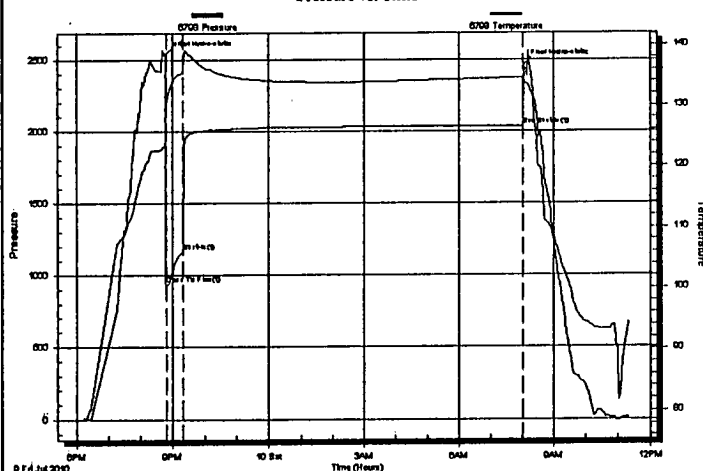
Time On Btm: **2010.07.09 @ 20:46:21**

Time Off Btm: **2010.07.10 @ 08:03:21**

TEST COMMENT: IF: Strong blow. B.O.B. in 5 secs. GTS in 2 mins. Fluid to surface in 10 mins.

IS: Shut in and vent gas. Let set until daylight. Vented gas and oil for 2 hrs after shut in.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2540.34	123.32	Initial Hydro-static
2	937.37	128.77	Open To Flow (1)
34	1164.35	135.42	Shut-In (1)
675	2034.00	134.62	End Shut-In (1)
677	2465.63	133.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	Gsy Oil 20%g 80%o	7.74
0.00	4388' GIP	0.00
0.00	Grav: 44 API @ 100 deg.	0.00

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Company, Inc

Yates ' A ' #5

P.O.Box 124
Kiowa, KS 67070

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Job Ticket: 36925

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2010.07.09 @ 18:14:51

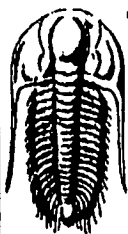
Tool Information

Drill Pipe:	Length: 4898.00 ft	Diameter: 3.80 inches	Volume: 68.71 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 69.30 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	5034.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	39.00 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			5016.00	
Hydraulic tool	5.00			5021.00	
Safety Joint	3.00			5024.00	
Packer	5.00			5029.00	23.00 Bottom Of Top Packer
Packer	5.00			5034.00	
Stubb	1.00			5035.00	
Recorder	0.00	6798	Inside	5035.00	
Recorder	0.00	8367	Inside	5035.00	
Perforations	12.00			5047.00	
Bullnose	3.00			5050.00	16.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



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FLUID SUMMARY

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Yates ' A ' #5

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31-34s-11w Barber KS

Job Ticket: 36925

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2010.07.09 @ 18:14:51

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 8.97 in³

Resistivity: 0.00 ohm.m

Salinity: 4400.00 ppm

Filter Cake: 0.21 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

40 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	Gsy Oil 20%g 80%o	7.744
0.00	4388' GIP	0.000
0.00	Grav: 44 API @ 100 deg.	0.000

Total Length: 630.00 ft

Total Volume: 7.744 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

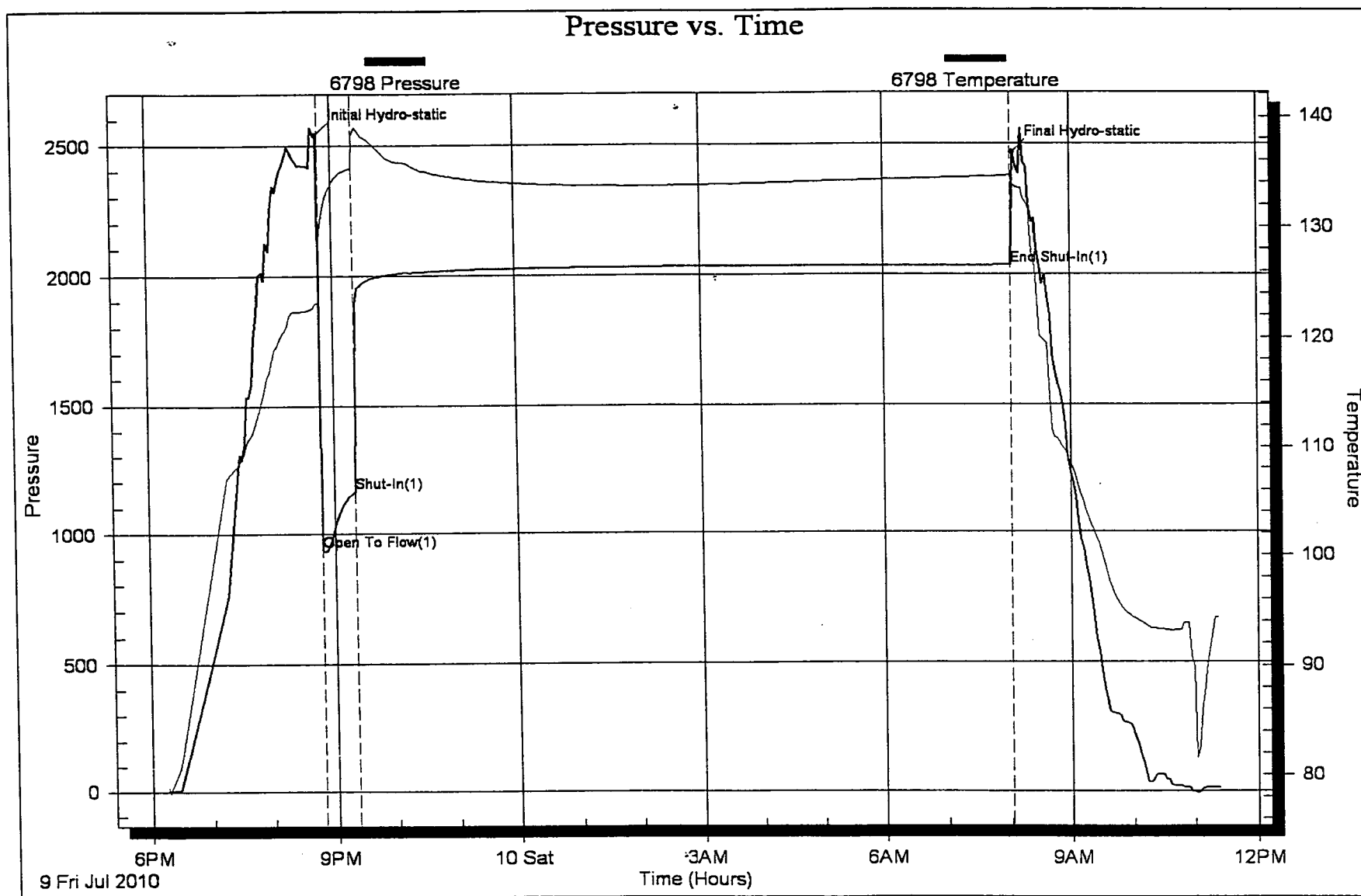
Laboratory Location:

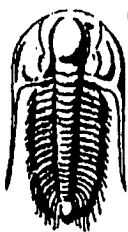
Recovery Comments:

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Chieftain Oil Company, Inc

P.O.Box 124
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ATTN: Arden Ratzlaff

Yates 'A' #5

31-34s-11w Barber KS

Job Ticket: 36926

DST#: 2

Test Start: 2010.07.11 @ 12:07:19

GENERAL INFORMATION:

Formation: Simpson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:34:49

Time Test Ended: 20:53:49

Interval: 5185.00 ft (KB) To 5228.00 ft (KB) (TVD)

Total Depth: 5228.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 45

Reference Elevations: 1365.00 ft (KB)

1356.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 130.81 psig @ 5191.00 ft (KB)

Start Date: 2010.07.11

End Date:

2010.07.11

Start Time: 12:07:20

End Time:

20:53:49

Capacity: 8000.00 psig

Last Calib.: 2010.07.11

Time On Btm: 2010.07.11 @ 14:33:19

Time Off Btm: 2010.07.11 @ 18:19:19

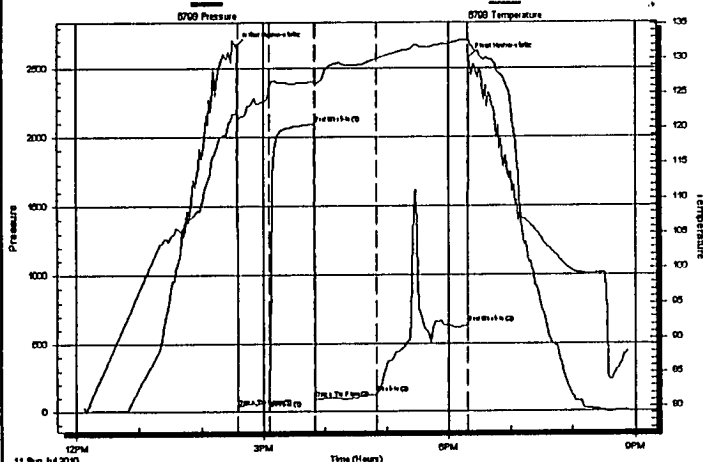
TEST COMMENT: IF:Weak blow . Built to 3".

IS:No blow .

FF:Weak blow . Built to 3 1/2".

FS:No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2661.30	122.02	Initial Hydro-static
2	37.96	121.40	Open To Flow (1)
32	86.48	125.77	Shut-In(1)
76	2091.75	126.69	End Shut-In(1)
77	92.41	126.14	Open To Flow (2)
137	130.81	130.04	Shut-In(2)
225	639.41	132.67	End Shut-In(2)
226	2579.68	132.63	Final Hydro-static

Recovery

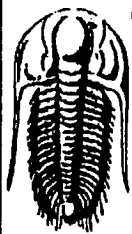
Length (ft)	Description	Volume (bbl)
240.00	SMCW 85%w 15%m	2.27
20.00	SWCM 10%w 90%m	0.28
0.00	RW = .07 @ 100 deg.	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TOOL DIAGRAM

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Job Ticket: 36926

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2010.07.11 @ 12:07:19

Tool Information

Drill Pipe:	Length: 5055.00 ft	Diameter: 3.80 inches	Volume: 70.91 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: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 71.50 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	5185.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	66.00 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			5167.00	
Hydraulic tool	5.00			5172.00	
Safety Joint	3.00			5175.00	
Packer	5.00			5180.00	23.00 Bottom Of Top Packer
Packer	5.00			5185.00	
Stubb	1.00			5186.00	
Perforations	4.00			5190.00	
Change Over Sub	1.00			5191.00	
Recorder	0.00	6798	Inside	5191.00	
Recorder	0.00	8367	Inside	5191.00	
Blank Spacing	31.00			5222.00	
Change Over Sub	1.00			5223.00	
Perforations	2.00			5225.00	
Bullnose	3.00			5228.00	43.00 Bottom Packers & Anchor

Total Tool Length: 66.00



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Test Start: 2010.07.11 @ 12:07:19

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:

77000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.57 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 0.21 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	SMCW 85%w 15%m	2.273
20.00	SWCM 10%w 90%m	0.281
0.00	RW = .07 @ 100 deg.	0.000

Total Length: 260.00 ft

Total Volume: 2.554 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

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