



DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Company, Inc**

P.O.Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

31-34s-11w Barber KS

Yates ' A ' #5

Start Date: 2010.07.09 @ 18:14:51

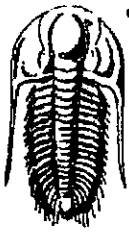
End Date: 2010.07.10 @ 11:23:21

Job Ticket #: 36925 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Company, Inc

Yates ' A ' #5

P.O.Box 124
Kiowa, KS 67070

31-34s-11w Barber KS

Job Ticket: 36925

DST#: 1

ATTN: Arden Ratzlaff

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)**

Reference Elevations: 1365.00 ft (KB)

Total Depth: 5050.00 ft (KB) (TVD)

1356.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6798 Inside

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

Capacity: 8000.00 psig

Start Date: 2010.07.09

End Date: 2010.07.10

Last Calib.: 2010.07.10

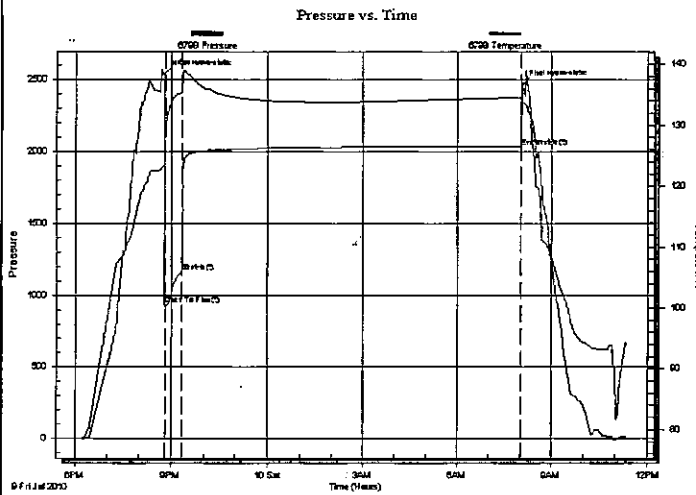
Start Time: 18:14:52

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 SUMMARY

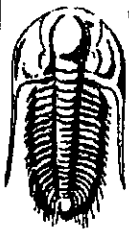
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2540.34	123.32	Initial Hydro-static
2	937.37	128.77	Open To Flow (1)
34	1164.35	135.42	Shut-In(1)
675	2034.00	134.62	End Shut-In(1)
677	2465.63	133.89	Final Hydro-static

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)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Company, Inc

Yates ' A ' #5

P.O.Box 124
Kiowa, KS 67070

31-34s-11w Barber KS

Job Ticket: 36925

DST#: 1

ATTN: Arden Ratzlaff

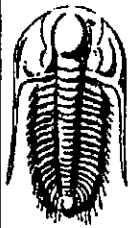
Test Start: 2010.07.09 @ 18:14:51

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
			<u>Total Volume: 69.30 bbl</u>	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	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

P.O.Box 124
Kiowa, KS 67070

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

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 0.21 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
630.00	Gsy Oil 20%g 80%o	7.744
0.00	4388' GP	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

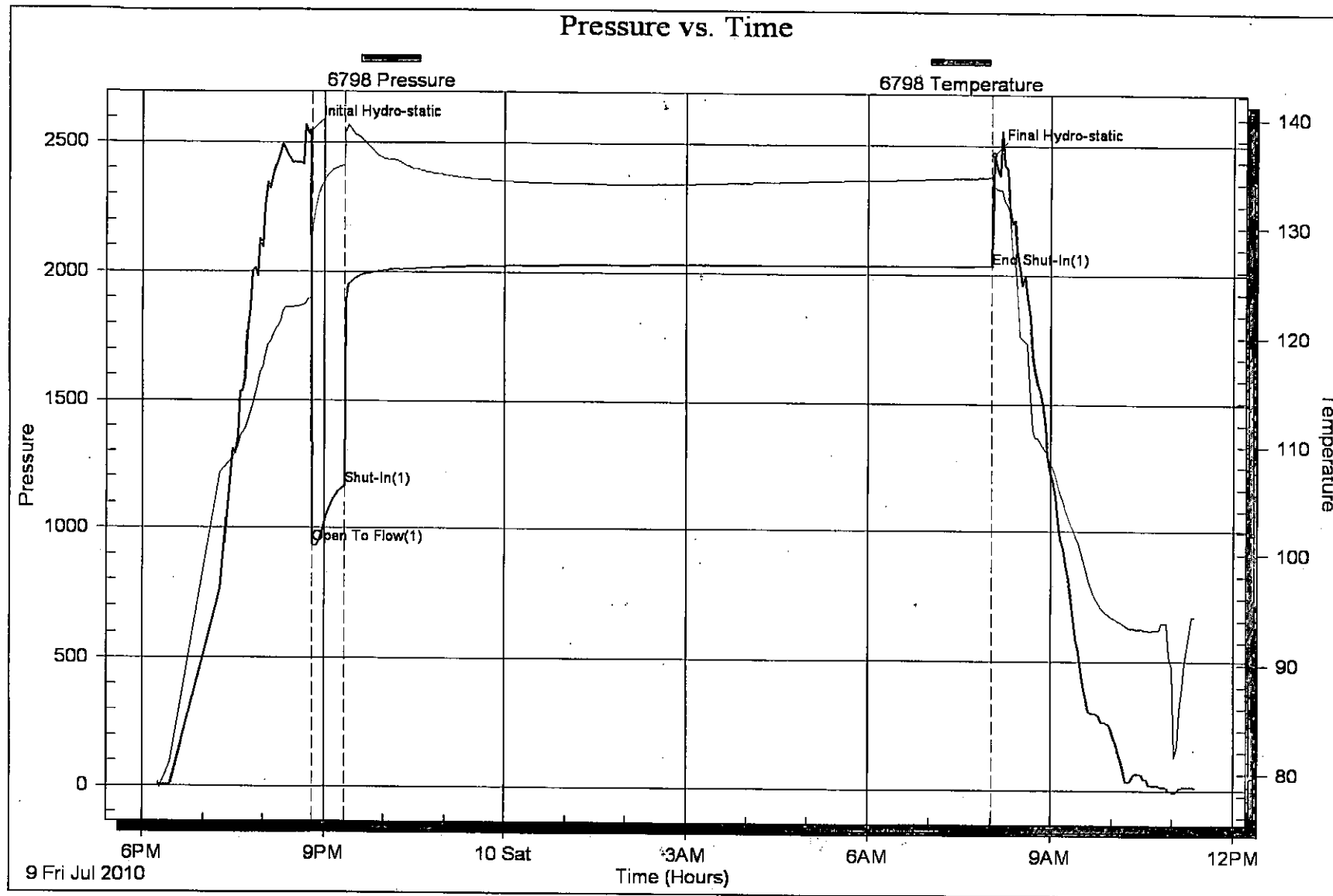
Num Gas Bombs: 0

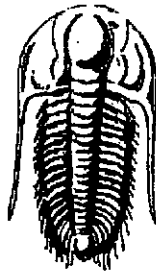
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





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Yates 'A' #5

Start Date: 2010.07.11 @ 12:07:19

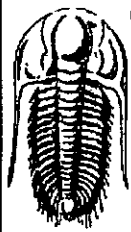
End Date: 2010.07.11 @ 20:53:49

Job Ticket #: 36926 DST #: 2

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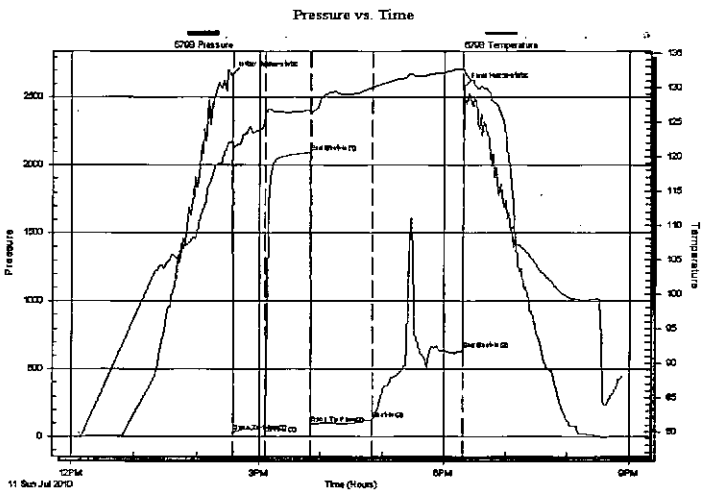
Yates ' A ' #5
31-34s-11w Barber KS
 Job Ticket: 36926 DST#: 2
 Test Start: 2010.07.11 @ 12:07:19

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) Capacity: 8000.00 psig
 Start Date: 2010.07.11 End Date: 2010.07.11 Last Calib.: 2010.07.11
 Start Time: 12:07:20 End Time: 20:53:49 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 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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Yates ' A ' #5

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Job Ticket: 36926

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Test Start: 2010.07.11 @ 12:07:19

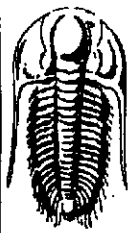
Tool Information

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
			<u>Total Volume: 71.50 bbl</u>	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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Job Ticket: 36926

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ATTN: Arden Ratzlaff

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:

bbbl

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:

