

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil CO Inc**

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

3 33 10w Barber KS

Gates#3

Start Date: 2007.03.17 @ 04:28:30

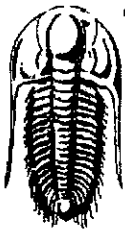
End Date: 2007.03.17 @ 12:46:30

Job Ticket #: 27004 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chieftain Oil CO Inc

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

Gates#3

3 33 10w Barber KS

Job Ticket: 27004

DST#: 1

Test Start: 2007.03.17 @ 04:28:30

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:23:45

Time Test Ended: 12:46:30

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4153.00 ft (KB) To 4168.00 ft (KB) (TVD)**

Total Depth: 4168.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1409.00 ft (KB)

1402.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8167

Inside

Press@RunDepth: 21.22 psig @ 4154.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.03.17

End Date:

2007.03.17

Last Calib.: 2007.03.17

Start Time: 04:28:35

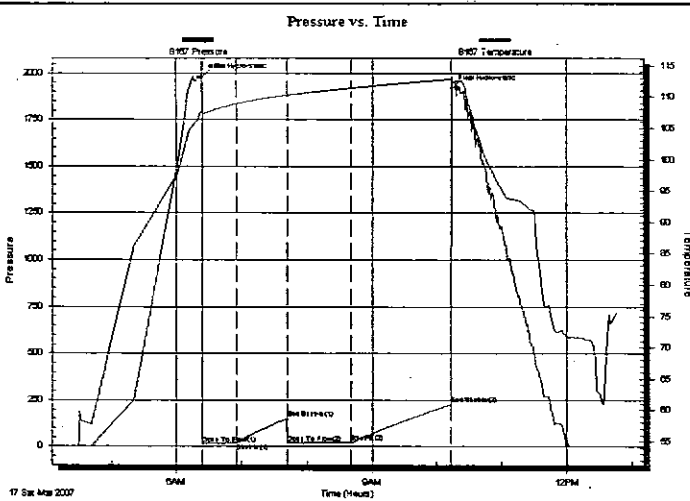
End Time:

12:46:29

Time On Btm: 2007.03.17 @ 06:23:15

Time Off Btm: 2007.03.17 @ 10:13:29

TEST COMMENT: IF Fair blow 3 - 9"
ISI No blow
FF Weak blow 2 - 4"
FSI No blow



PRESSURE SUMMARY

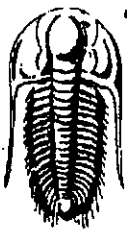
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.18	107.72	Initial Hydro-static
1	14.94	107.30	Open To Flow (1)
32	19.65	108.86	Shut-In(1)
79	151.66	110.25	End Shut-In(1)
79	19.12	110.24	Open To Flow (2)
138	21.22	111.41	Shut-In(2)
230	227.60	112.81	End Shut-In(2)
231	1915.94	113.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GCM 7%G 93%M Good O/spots @ top of 0.05	
0.00	300 ft. of GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil CO Inc

Gates#3

PO Box 124
Kiowa KS 67070

3 33 10w Barber KS

Job Ticket: 27004

DST#: 1

ATTN: Arden Ratzlaff

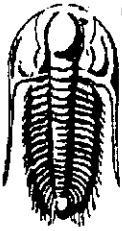
Test Start: 2007.03.17 @ 04:28:30

Tool Information

Drill Pipe:	Length: 3870.00 ft	Diameter: 3.80 inches	Volume: 54.29 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: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 55.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4153.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Safety Joint	3.00			4144.00	
Packer	4.00			4148.00	23.00 Bottom Of Top Packer
Packer	5.00			4153.00	
Stubb	1.00			4154.00	
Recorder	0.00	8167	Inside	4154.00	
Perforations	9.00			4163.00	
Recorder	0.00	11019	Outside	4163.00	
Bullnose	5.00			4168.00	15.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil CO Inc

Gates#3

PO Box 124
Kiowa KS 67070

3 33 10w Barber KS

Job Ticket: 27004

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2007.03.17 @ 04:28:30

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:

4000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	GCM 7%G 93%M Good O/spots @ top of tool	0.049
0.00	300 ft. of GIP	0.000

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

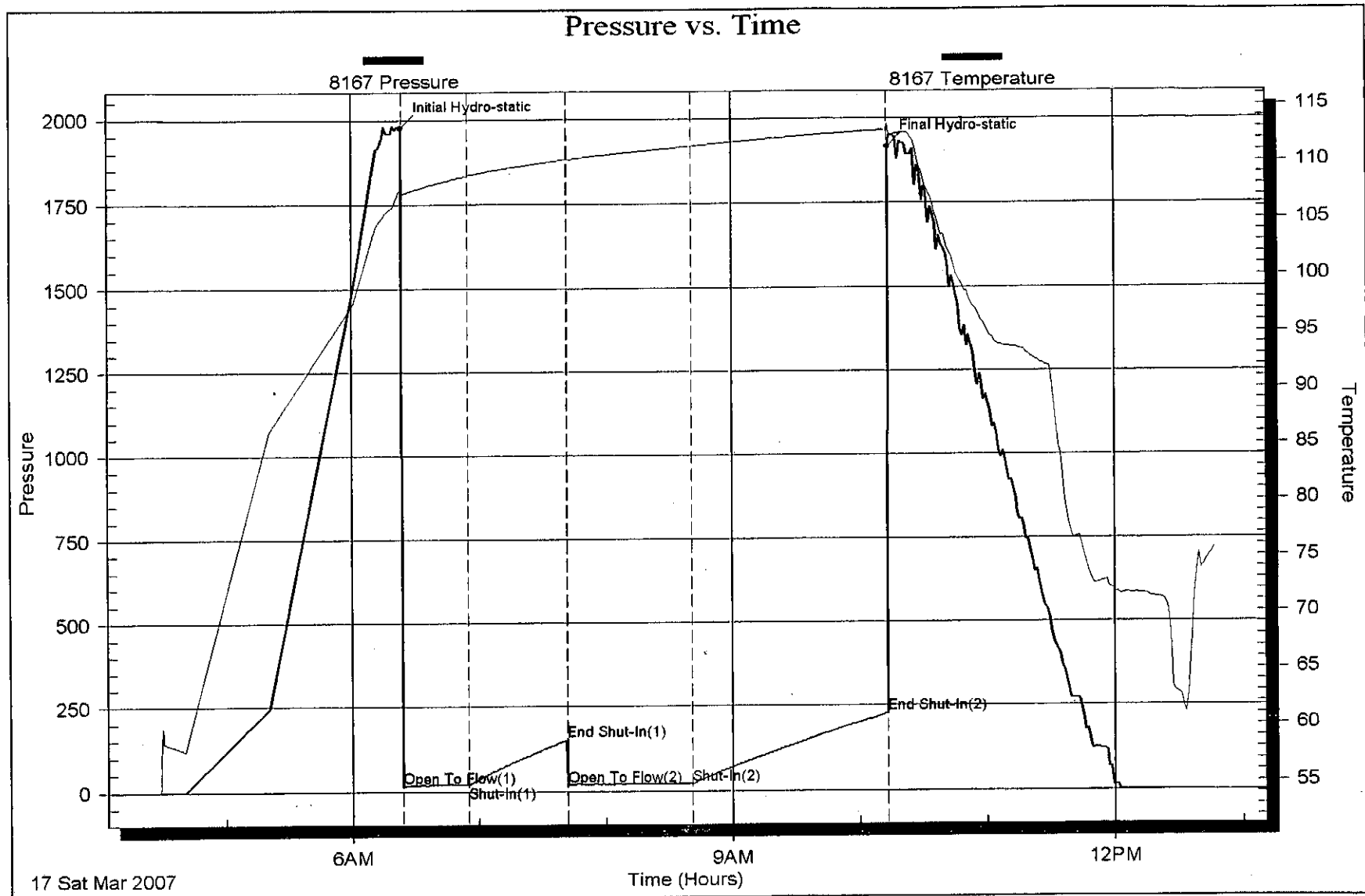
Num Gas Bombs: 0

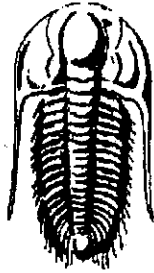
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
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DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil CO Inc**

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

3 33 10w Barber KS

Gates#3

Start Date: 2007.03.19 @ 16:23:11

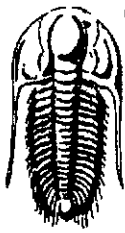
End Date: 2007.03.20 @ 01:55:56

Job Ticket #: 26922 DST #: 2

Trilobite Testing, Inc

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**TRILOBITE
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DRILL STEM TEST REPORT

Chieftain Oil CO Inc

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

Gates#3

3 33 10w Barber KS

Job Ticket: 26922

DST#: 2

Test Start: 2007.03.19 @ 16:23:11

GENERAL INFORMATION:

Formation: **Viola**

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

Time Tool Opened: 18:21:56

Time Test Ended: 01:55:56

Test Type: **Conventional Bottom Hole**

Tester: **Leal Cason**

Unit No: **19**

Interval: **4691.00 ft (KB) To 4712.00 ft (KB) (TVD)**

Total Depth: **4712.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1409.00 ft (KB)**

1402.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 6752

Inside

Press@RunDepth: **506.70 psig @ 4692.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2007.03.19**

End Date: **2007.03.20**

Last Calib.: **2007.03.20**

Start Time: **16:23:16**

End Time: **01:55:56**

Time On Btm: **2007.03.19 @ 18:20:26**

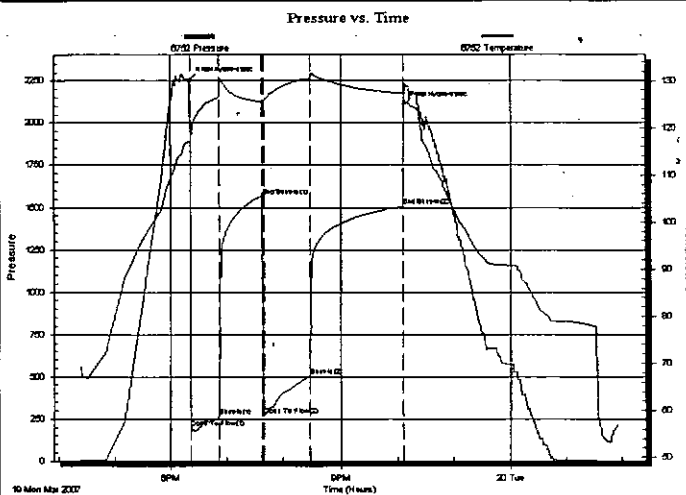
Time Off Btm: **2007.03.19 @ 22:06:55**

TEST COMMENT: IF Strong Blow BOB in 45 seconds GTS in 13 minutes gauged gas

ISI Would Not Bleed Off

FF Strong Blow GTS Immediate BOB 1 minute

FSI Would Not Bleed Off



PRESSURE SUMMARY

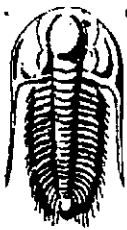
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.91	117.17	Initial Hydro-static
2	198.71	118.04	Open To Flow (1)
32	266.22	126.61	Shut-In(1)
77	1568.13	125.57	End Shut-In(1)
79	272.23	125.81	Open To Flow(2)
128	506.70	130.61	Shut-In(2)
226	1506.79	127.39	End Shut-In(2)
227	2106.58	127.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP AFFF	0.00
330.00	GSY Water 2%G 98%W	2.17
270.00	GSY MCO 5%G 15%M 80%O	3.79
780.00	GSY Oil 4%G 96%O	10.94

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	32.00	313.00
Last Gas Rate	0.50	19.00	225.31
Max. Gas Rate	0.50	32.00	313.00



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil CO Inc

Gates#3

PO Box 124
Kiowa KS 67070

3 33 10w Barber KS

Job Ticket: 26922

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2007.03.19 @ 16:23:11

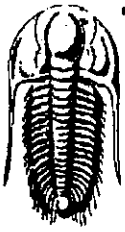
Tool Information

Drill Pipe:	Length: 4427.00 ft	Diameter: 3.80 inches	Volume: 62.10 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: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume:	63.43 bbl	Tool Chased: ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4691.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			4668.00	
Change Over Sub	1.00			4669.00	
Shut In Tool	5.00			4674.00	
Hydraulic tool	5.00			4679.00	
Safety Joint	3.00			4682.00	
Packer	5.00			4687.00	24.00 Bottom Of Top Packer
Packer	4.00			4691.00	
Stubb	1.00			4692.00	
Recorder	0.00	6752	Inside	4692.00	
Perforations	17.00			4709.00	
Recorder	0.00	13255	Outside	4709.00	
Bullnose	3.00			4712.00	21.00 Bottom Packers & Anchor

Total Tool Length: 45.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil CO Inc

Gates#3

PO Box 124
Kiowa KS 67070

3 33 10w Barber KS

Job Ticket: 26922

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2007.03.19 @ 16:23:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP AAFP	0.000
330.00	GSY Water 2%G 98%W	2.169
270.00	GSY MCO 5%G 15%M 80%O	3.787
780.00	GSY Oil 4%G 96%O	10.941

Total Length: 1380.00 ft

Total Volume: 16.897 bbl

Num Fluid Samples: 0

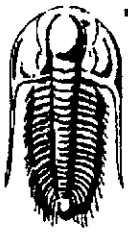
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Chieftain Oil CO Inc

Gates#3

PO Box 124
Kiowa KS 67070

3 33 10w Barber KS

Job Ticket: 26922

DST#: 2

ATTN: Arden Ratzlaff

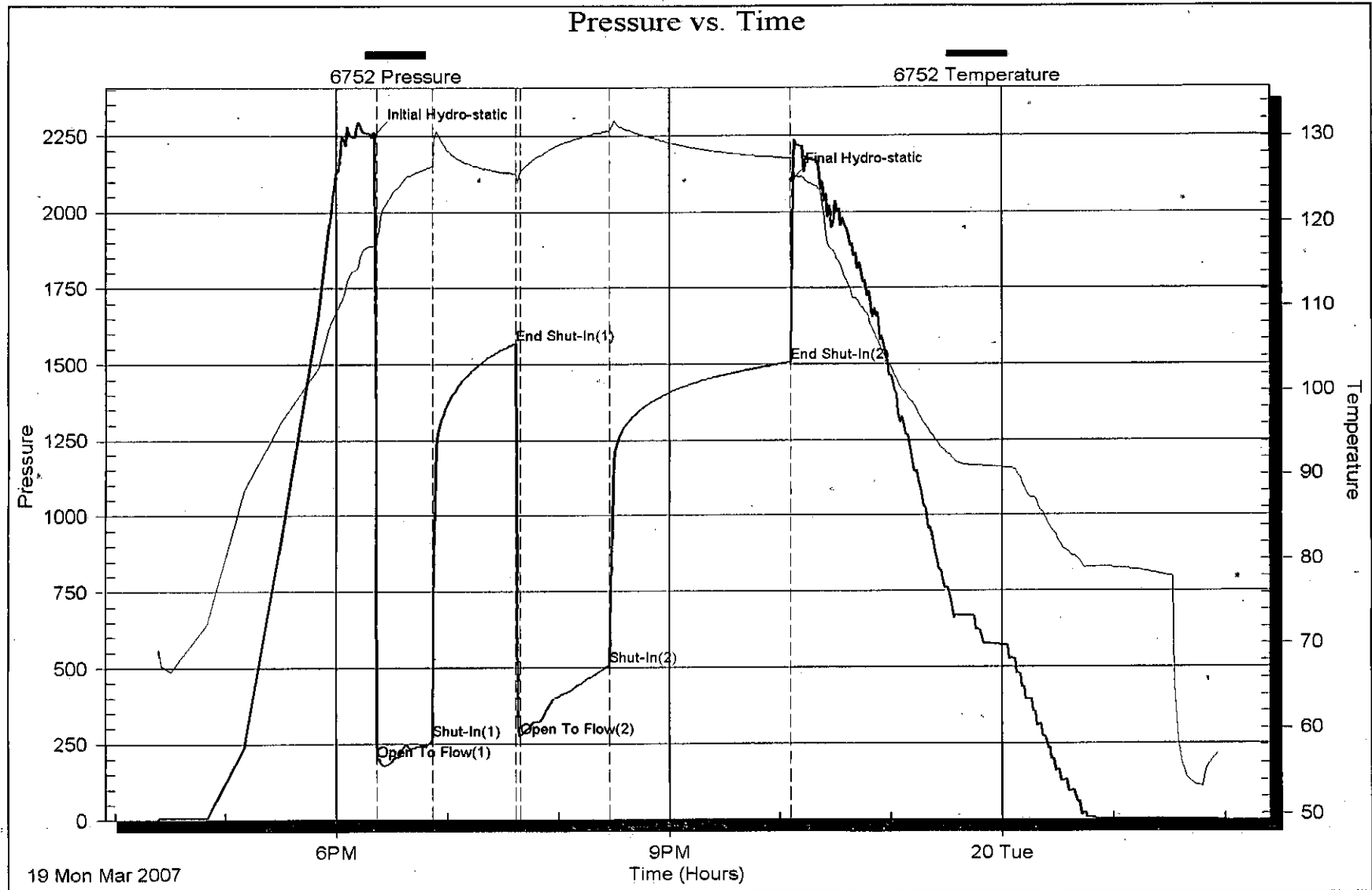
Test Start: 2007.03.19 @ 16:23:11

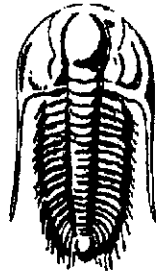
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	15	0.50	32.00	313.00
1	15	0.50	32.00	313.00
1	20	0.50	19.00	225.31





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DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil CO Inc**

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

3 33 10w Barber KS

Gates#3

Start Date: 2007.03.20 @ 17:52:14

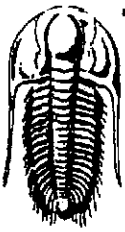
End Date: 2007.03.21 @ 04:19:44

Job Ticket #: 26933 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
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DRILL STEM TEST REPORT

Chieftain Oil CO Inc

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

Gates#3

3 33 10w Barber KS

Job Ticket: 26933

DST#: 3

Test Start: 2007.03.20 @ 17:52:14

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:07:44

Time Test Ended: 04:19:44

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 19

Interval: **4775.00 ft (KB) To 4800.00 ft (KB) (TVD)**

Total Depth: 4800.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1409.00 ft (KB)

1402.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6752

Inside

Press@RunDepth: 1859.74 psig @ 4776.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.03.20

End Date:

2007.03.21

Last Calib.: 2007.03.21

Start Time:

17:52:19

End Time:

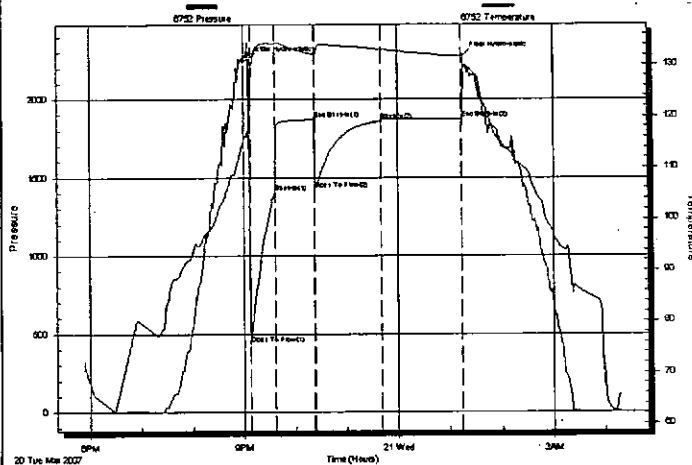
04:19:44

Time On Btm: 2007.03.20 @ 21:05:59

Time Off Btm: 2007.03.21 @ 01:15:43

TEST COMMENT: IF Strong Blow BOB in 90 seconds
ISI Bled Off Blow back Built To BOB
FF Strong Blow BOB in 90 seconds
FSI Bled Off No Blow back

Pressure vs. Time



PRESSURE SUMMARY

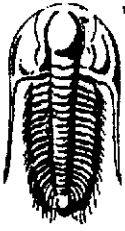
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.82	117.28	Initial Hydro-static
2	436.27	125.94	Open To Flow (1)
31	1405.95	134.17	Shut-In(1)
77	1870.54	132.10	End Shut-In(1)
78	1422.89	131.76	Open To Flow (2)
155	1859.74	133.09	Shut-In(2)
249	1874.42	131.66	End Shut-In(2)
250	2278.10	129.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	Water	0.62
3789.00	GSY WCM 2%G 48%W 50%M	51.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil CO Inc

Gates#3

PO Box 124
Klowa KS 67070

3 33 10w Barber KS

Job Ticket: 26933

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2007.03.20 @ 17:52:14

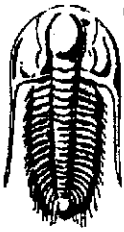
Tool Information

Drill Pipe:	Length: 4491.00 ft	Diameter: 3.80 inches	Volume: 63.00 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: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.33 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4775.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:
Dropped Bar Reversed out

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			4752.00	
Change Over Sub	1.00			4753.00	
Shut In Tool	5.00			4758.00	
Hydraulic tool	5.00			4763.00	
Safety Joint	3.00			4766.00	
Packer	5.00			4771.00	24.00 Bottom Of Top Packer
Packer	4.00			4775.00	
Stubb	1.00			4776.00	
Recorder	0.00	6752	Inside	4776.00	
Perforations	21.00			4797.00	
Recorder	0.00	6704	Outside	4797.00	
Bullnose	3.00			4800.00	25.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil CO Inc
PO Box 124
Kiowa KS 67070
ATTN: Arden Ratzlaff

Gates#3
3 33 10w Barber KS
Job Ticket: 26933 **DST#: 3**
Test Start: 2007.03.20 @ 17:52:14

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	Water	0.620
3789.00	GSY WCM 2%G 48%W 50%M	51.838

Total Length: 3915.00 ft Total Volume: 52.458 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

