



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1133162  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1133162

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	GATES 3
Doc ID	1133162

All Electric Logs Run

Sonic Cement Log
Geologist Log
Dual Induction Log
Dual Compensated Porosity Log

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	GATES 3
Doc ID	1133162

Tops

Name	Top	Datum
Heebner	3418	-2009
Lansing	3712	-2303
Base Kansas City	4178	-2769
Cherokee	4344	-2935
Mississippian	4386	-2977
Viola	4699	-3290
Simpson Sd.	4791	-3382
Total Depth	4859	-3450

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

April 12, 2013

Ron Mola  
Chieftain Oil Co., Inc.  
101 S. 5TH ST.  
PO BOX 124  
KIOWA, KS 67070-1912

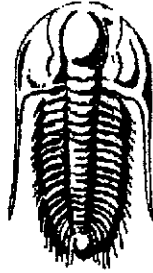
Re: ACO1  
API 15-007-23119-00-00  
GATES 3  
SE/4 Sec.03-33S-10W  
Barber County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Ron Mola



**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

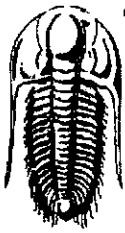
End Date: 2007.03.17 @ 12:46:30

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

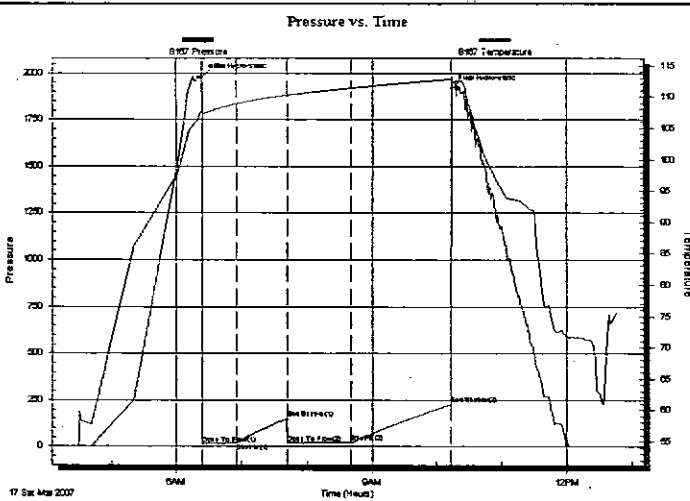
End Time:

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

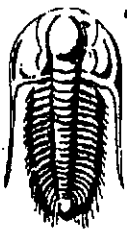
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1977.18	107.72	Initial Hydro-static
1	14.94	107.30	Open To Flow (1)
32	19.65	108.86	Shut-In(1)
79	151.66	110.25	End Shut-In(1)
79	19.12	110.24	Open To Flow (2)
138	21.22	111.41	Shut-In(2)
230	227.60	112.81	End Shut-In(2)
231	1915.94	113.30	Final Hydro-static

## 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**

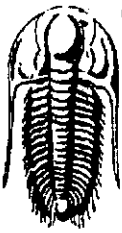
Drill Pipe:	Length: 3870.00 ft	Diameter: 3.80 inches	Volume: 54.29 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 68000.00 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  
TESTING, INC**

**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 in<sup>3</sup>

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

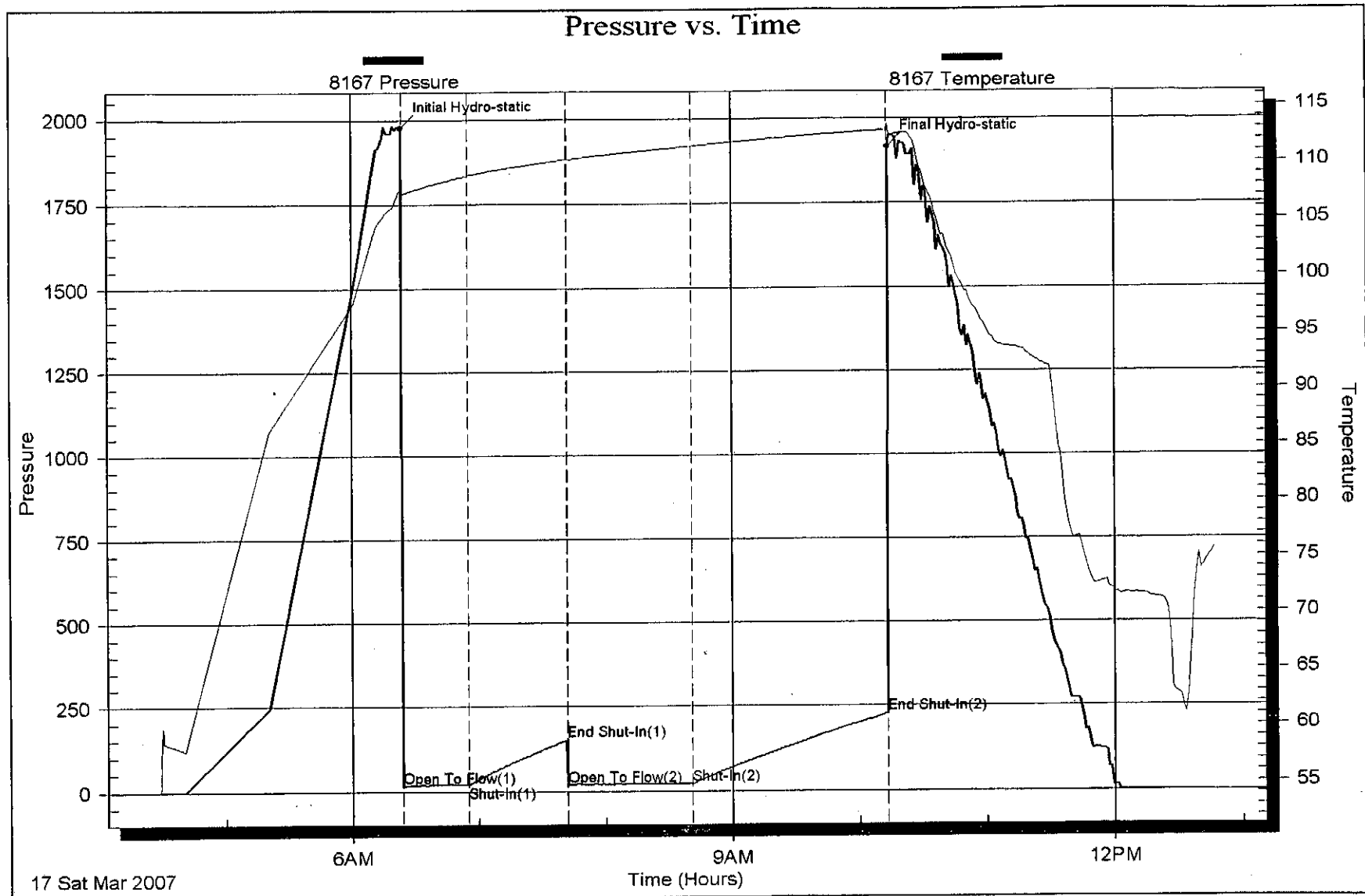
Num Gas Bombs: 0

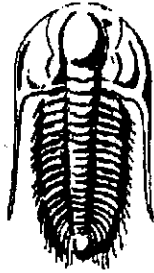
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
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: 2007.03.19 @ 16:23:11

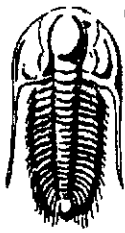
End Date: 2007.03.20 @ 01:55:56

Job Ticket #: 26922                      DST #: 2

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  
Kiova 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**

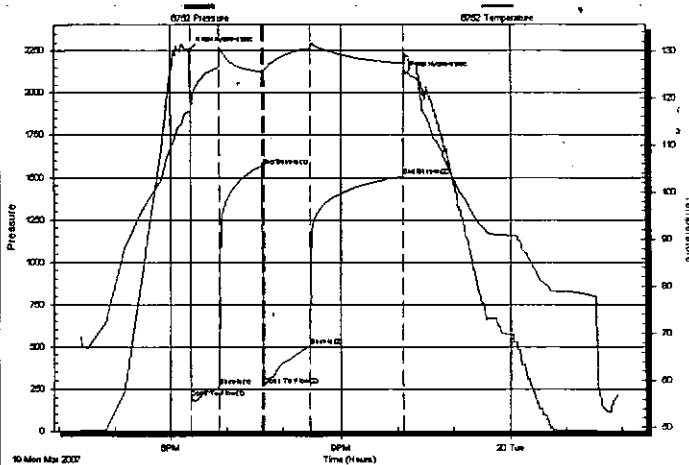
**TEST COMMENT:** IF Strong Blow BOB in 45 seconds GTS in 13 minutes gauged gas

ISI Would Not Bleed Off

FF Strong Blow GTS Immediate BOB 1 minute

FSI Would Not Bleed Off

Pressure vs. Time



## PRESSURE SUMMARY

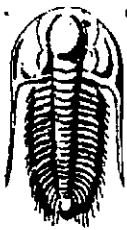
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.91	117.17	Initial Hydro-static
2	198.71	118.04	Open To Flow (1)
32	266.22	126.61	Shut-In(1)
77	1568.13	125.57	End Shut-In(1)
79	272.23	125.81	Open To Flow(2)
128	506.70	130.61	Shut-In(2)
226	1506.79	127.39	End Shut-In(2)
227	2106.58	127.31	Final 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**  
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: 26922

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2007.03.19 @ 16:23:11

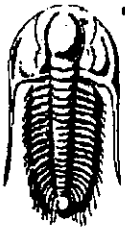
## Tool Information

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
			<u>Total Volume: 63.43 bbl</u>	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  
TESTING, INC**

**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  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 7.98 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 0.20 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 41 deg API  
Water Salinity: 26000 ppm

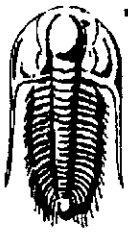
**Recovery Information**

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**  
**TESTING, INC.**

# 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

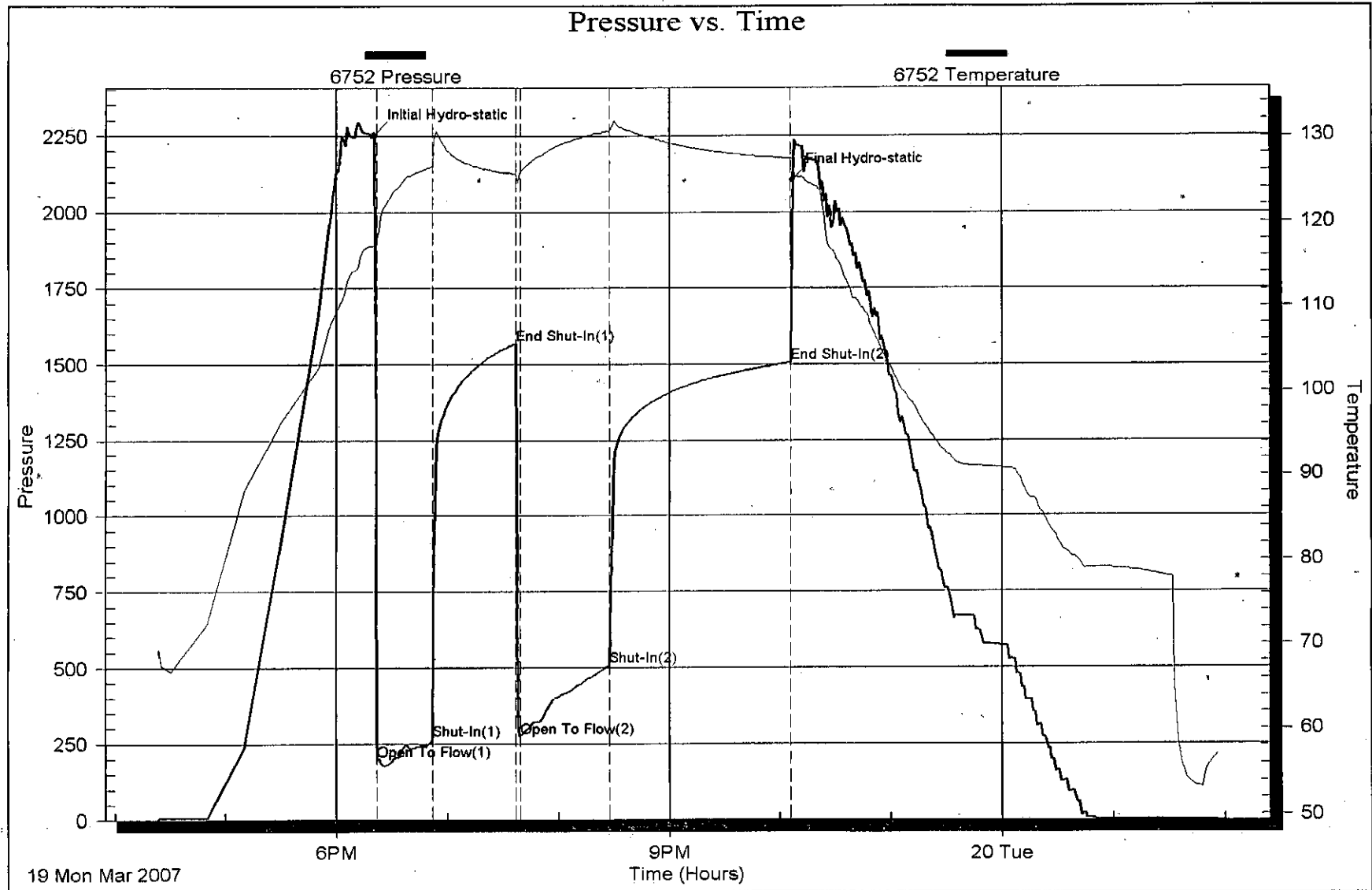
Test Start: 2007.03.19 @ 16:23:11

## Gas Rates Information

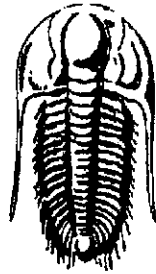
Temperature: 59 deg C  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /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







**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: 2007.03.20 @ 17:52:14

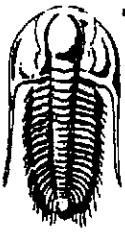
End Date: 2007.03.21 @ 04:19:44

Job Ticket #: 26933                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE  
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: 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:

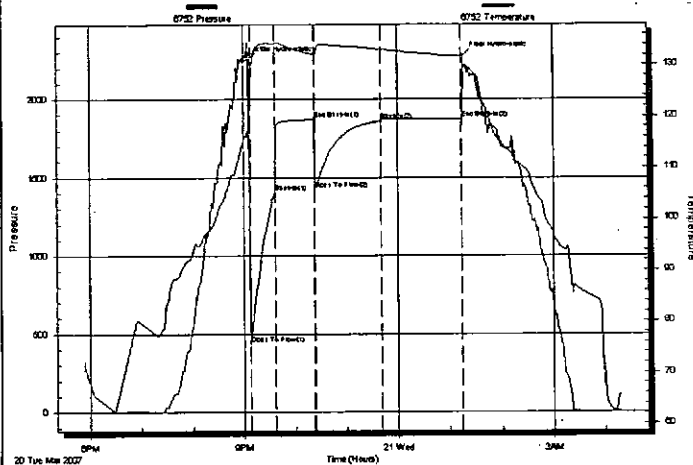
04:19:44

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

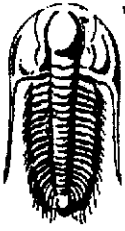
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.82	117.28	Initial Hydro-static
2	436.27	125.94	Open To Flow (1)
31	1405.95	134.17	Shut-In(1)
77	1870.54	132.10	End Shut-In(1)
78	1422.89	131.76	Open To Flow (2)
155	1859.74	133.09	Shut-In(2)
249	1874.42	131.66	End Shut-In(2)
250	2278.10	129.87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

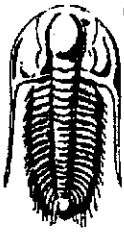
**Tool Information**

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  
TESTING, INC**

# 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 <sup>3</sup>	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:

