



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1095757  
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: \_\_\_\_\_



1095757

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<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> <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	Palmer 2
Doc ID	1095757

All Electric Logs Run

Geological Log
Sector Bond/Gamma Ray CCL Log
Dual Compensated Porosity Log
Microresistivity Log
Dual Induction Log

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Palmer 2
Doc ID	1095757

Tops

Name	Top	Datum
Heebner	3507	-2022
Toronto LS	3520	-2035
Lansing	3760	-2275
Kansas City	4022	-2537
Cherokee Sh.	4415	-2930
Mississippian	4447	-2962
Viola	4763	-3278
Simpson Sd.	4836	-3351
Arbuckel	4977	-3492
Total Depth	5016	-3531

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

October 04, 2012

Ron Molz  
Chieftain Oil Co., Inc.  
101 S. 5th St.; PO Box 124  
KIOWA, KS 67070-1912

Re: ACO1  
API 15-007-23906-00-00  
Palmer 2  
NW/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 Molz



## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co Inc**

PO Box 124  
Kiowa KS 67070

ATTN: David Barker

### **Palmer #2**

### **3-33s-19w Barber,KS**

Start Date: 2012.08.01 @ 06:21:17

End Date: 2012.08.01 @ 14:26:47

Job Ticket #: 47590                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.07 @ 13:55:43



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co Inc

**3-33s-19w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Palmer #2**

Job Ticket: 47590

**DST#: 1**

ATTN: David Barker

Test Start: 2012.08.01 @ 06:21:17

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:34:32

Time Test Ended: 14:26:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 4741.00 ft (KB) To 4782.00 ft (KB) (TVD)**

Reference Elevations: 1485.00 ft (KB)

Total Depth: 4782.00 ft (KB) (TVD)

1473.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8352 Outside**

Press @ Run Depth: 47.08 psig @ 4742.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.01 End Date: 2012.08.01

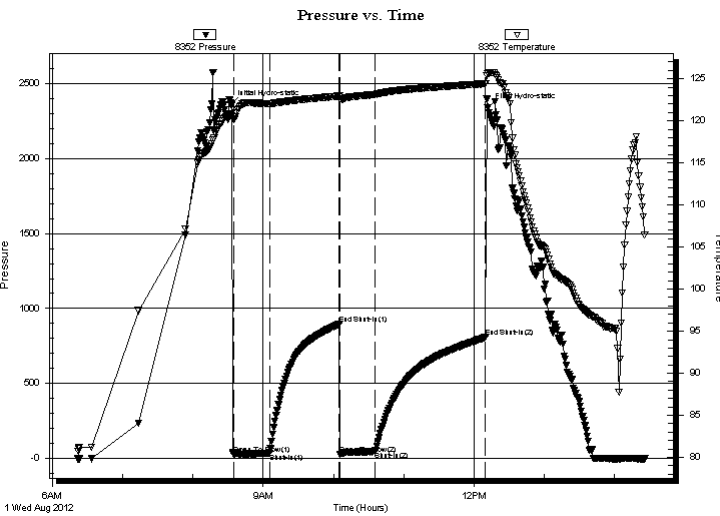
Last Calib.: 2012.08.01

Start Time: 06:21:22 End Time: 14:26:46

Time On Btm: 2012.08.01 @ 08:32:32

Time Off Btm: 2012.08.01 @ 12:12:02

**TEST COMMENT:** IF: Strong blow . B.O.B. in 2 mins.  
IS: No blow .  
FF: Strong blow . B.O.B. in 2 - 3 seconds.  
FS: No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2359.59	120.80	Initial Hydro-static
2	30.21	120.23	Open To Flow (1)
33	36.67	122.02	Shut-In(1)
93	895.59	122.95	End Shut-In(1)
94	27.55	122.62	Open To Flow (2)
124	47.08	123.13	Shut-In(2)
218	808.26	124.42	End Shut-In(2)
220	2339.61	125.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOC,GM 4%o 32%g 64%m	0.39
0.00	3510 ft.of GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co Inc

**3-33s-19w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Palmer #2**

Job Ticket: 47590

**DST#: 1**

ATTN: David Barker

Test Start: 2012.08.01 @ 06:21:17

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:34:32

Time Test Ended: 14:26:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 4741.00 ft (KB) To 4782.00 ft (KB) (TVD)**

Total Depth: 4782.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1485.00 ft (KB)

1473.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 8370**

**Inside**

Press @RunDepth: psig @ 4742.00 ft (KB)

Start Date: 2012.08.01

End Date:

2012.08.01

Start Time: 06:16:59

End Time:

14:23:53

Capacity: 8000.00 psig

Last Calib.:

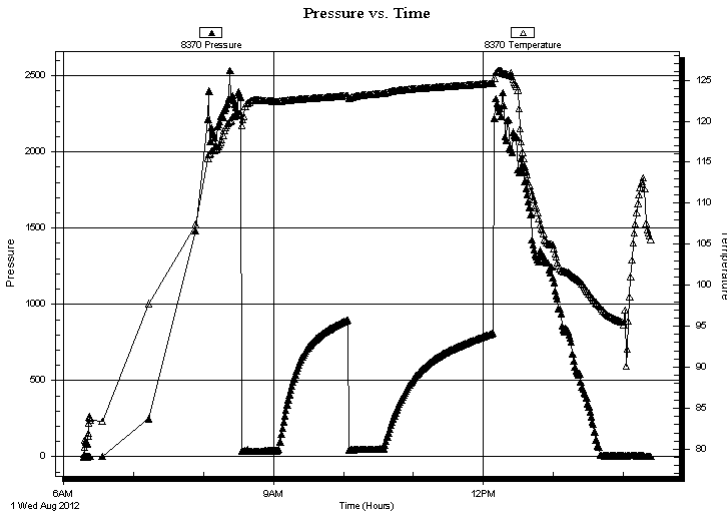
2012.08.01

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:Strong blow . B.O.B. in 2 mins.  
IS:No blow .  
FF:Strong blow . B.O.B. in 2 - 3 seconds.  
FS:No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOC,GM 4%o 32%g 64%m	0.39
0.00	3510 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

**3-33s-19w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Palmer #2**

Job Ticket: 47590

**DST#: 1**

ATTN: David Barker

Test Start: 2012.08.01 @ 06:21:17

## Tool Information

Drill Pipe:	Length: 4594.00 ft	Diameter: 3.80 inches	Volume: 64.44 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 65.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4741.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4714.00	
Shut in tool	5.00			4719.00	
HMV	5.00			4724.00	
Jars	5.00			4729.00	
Safety Joint	3.00			4732.00	
Packer	4.00			4736.00	28.00 Bottom Of Top Packer
Packer	5.00			4741.00	
Stubb	1.00			4742.00	
Recorder	0.00	8370	Inside	4742.00	
Recorder	0.00	8352	Outside	4742.00	
Perforations	35.00			4777.00	
Bullnose	5.00			4782.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co Inc

**3-33s-19w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Palmer #2**

Job Ticket: 47590

**DST#: 1**

ATTN: David Barker

Test Start: 2012.08.01 @ 06:21:17

## 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:

5300 ppm

Viscosity: 67.00 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: 5300.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	SOC,GM 4%o 32%g 64%m	0.393
0.00	3510 ft.of GIP	0.000

Total Length: 80.00 ft      Total Volume: 0.393 bbl

Num Fluid Samples: 0

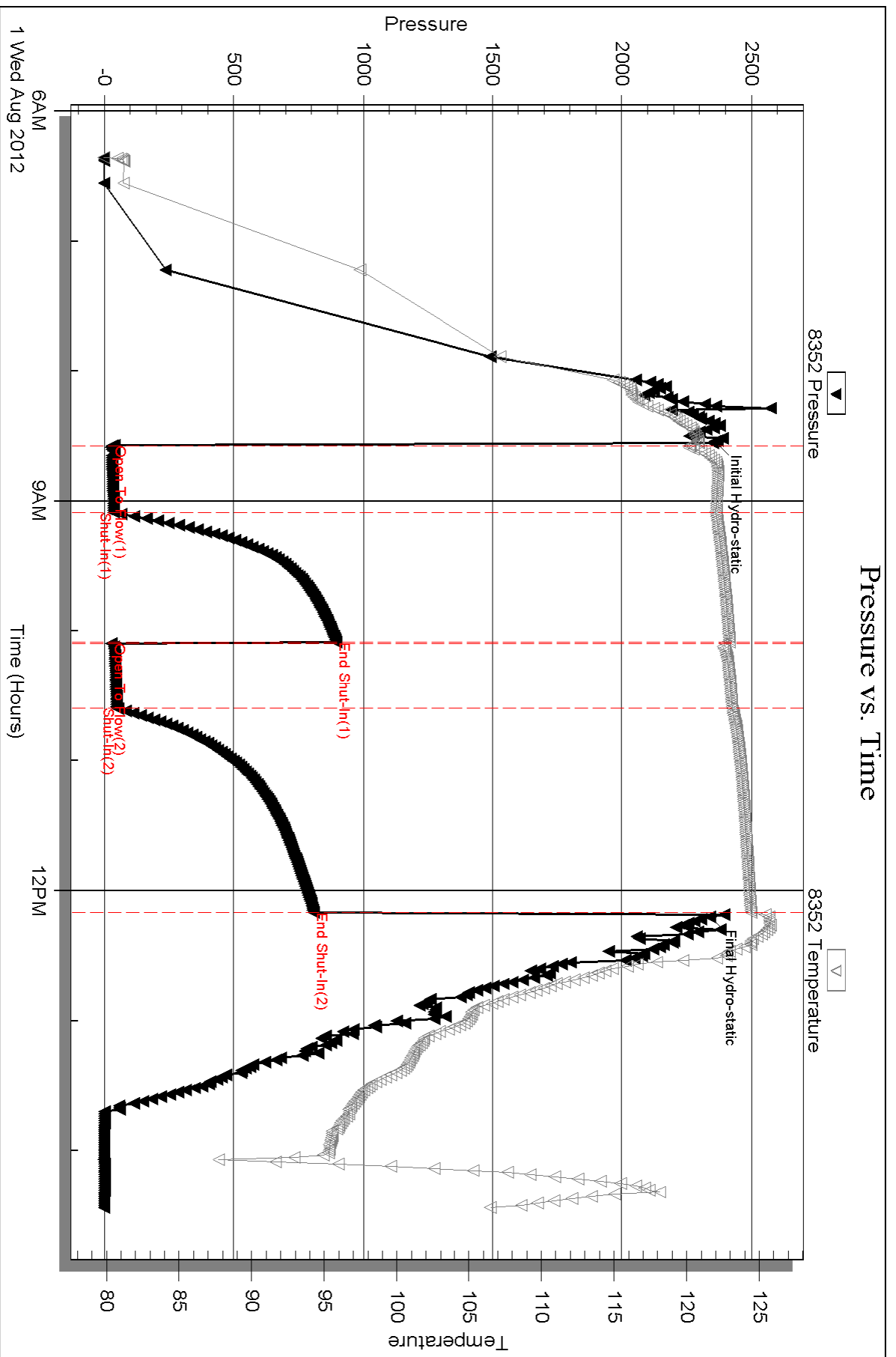
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



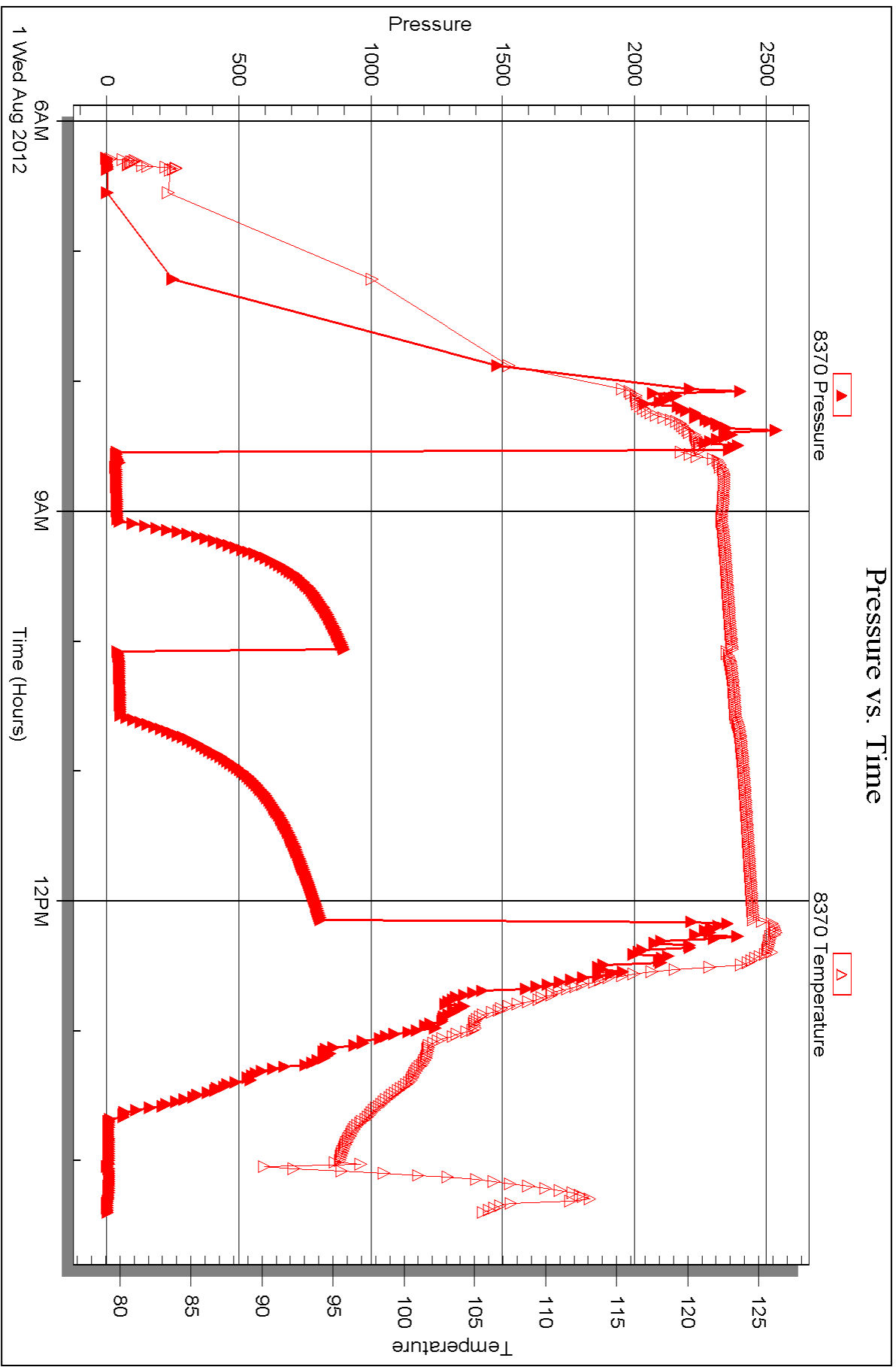
Serial #: 8370

Inside

Chieftain Oil Co Inc

Palmer #2

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co Inc**

PO Box 124  
Kiowa KS 67070

ATTN: David Barker

### **Palmer #2**

### **3-33s-19w Barber,KS**

Start Date: 2012.08.02 @ 04:01:02

End Date: 2012.08.02 @ 11:17:17

Job Ticket #: 47591                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.07 @ 13:54:31



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co Inc

**3-33s-19w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Palmer #2**

Job Ticket: 47591

**DST#: 2**

ATTN: David Barker

Test Start: 2012.08.02 @ 04:01:02

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:10:02

Time Test Ended: 11:17:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 4833.00 ft (KB) To 4841.00 ft (KB) (TVD)**

Reference Elevations: 1485.00 ft (KB)

Total Depth: 4841.00 ft (KB) (TVD)

1473.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8352 Outside**

Press @ Run Depth: 405.61 psig @ 4834.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.02 End Date: 2012.08.02

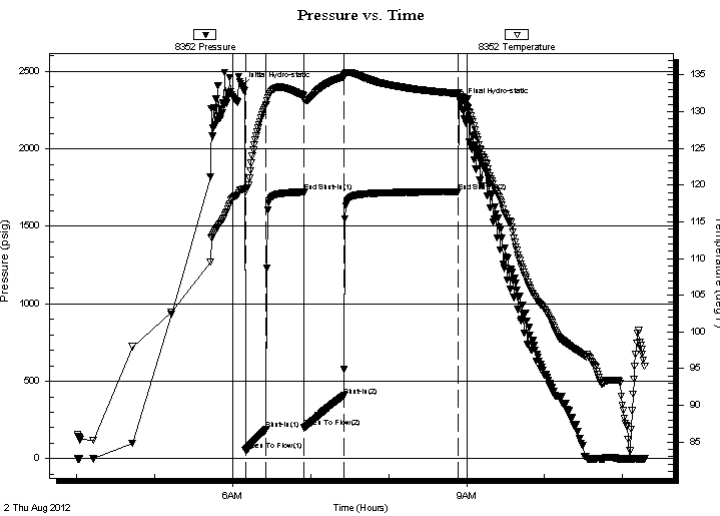
Last Calib.: 2012.08.02

Start Time: 04:01:07 End Time: 11:17:16

Time On Btm: 2012.08.02 @ 06:07:17

Time Off Btm: 2012.08.02 @ 08:55:32

**TEST COMMENT:** IF: Strong blow . B.O.B. in 96 seconds.  
IS: Strong blow . B.O.B.  
FF: Strong blow . B.O.B. in 4 mins.  
FS: Strong blow . B.O.B.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2399.70	119.40	Initial Hydro-static
3	55.35	119.04	Open To Flow (1)
19	188.02	130.93	Shut-In(1)
48	1721.26	132.21	End Shut-In(1)
48	202.93	131.67	Open To Flow (2)
79	405.61	134.73	Shut-In(2)
167	1723.07	132.46	End Shut-In(2)
169	2295.99	131.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
625.00	SW	7.40
145.00	MW w /oil specs 19%m 81%w	2.03
60.00	CGO 4%g 96%o	0.84
0.00	2735 ft.of GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Chieftain Oil Co Inc

3-33s-19w Barber,KS

PO Box 124  
Kiowa KS 67070

Palmer #2

Job Ticket: 47591

DST#: 2

ATTN: David Barker

Test Start: 2012.08.02 @ 04:01:02

### GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:10:02

Time Test Ended: 11:17:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: **4833.00 ft (KB) To 4841.00 ft (KB) (TVD)**

Reference Elevations: 1485.00 ft (KB)

Total Depth: 4841.00 ft (KB) (TVD)

1473.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: **8370**

Inside

Press @ Run Depth: psig @ 4834.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.02

End Date: 2012.08.02

Last Calib.: 2012.08.02

Start Time: 03:57:52

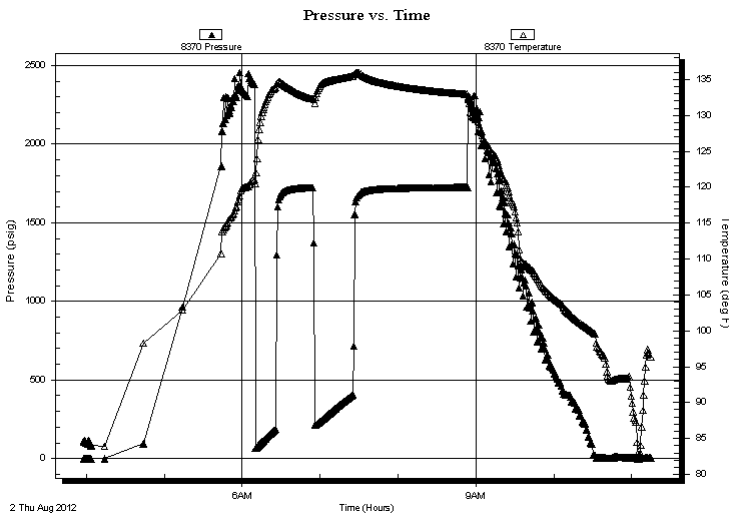
End Time: 11:15:01

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow . B.O.B. in 96 seconds.  
IS: Strong blow . B.O.B.  
FF: Strong blow . B.O.B. in 4 mins.  
FS: Strong blow . B.O.B.

### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
625.00	SW	7.40
145.00	MW w /oil specs 19% m 81% w	2.03
60.00	CGO 4% g 96% o	0.84
0.00	2735 ft. of GIP	0.00

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co Inc

**3-33s-19w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Palmer #2**

Job Ticket: 47591

**DST#: 2**

ATTN: David Barker

Test Start: 2012.08.02 @ 04:01:02

## Tool Information

Drill Pipe:	Length: 4660.00 ft	Diameter: 3.80 inches	Volume: 65.37 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 87000.00 lb
			<u>Total Volume: 66.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4833.00 ft			Final 79500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			4806.00	
Shut in tool	5.00			4811.00	
HMV	5.00			4816.00	
Jars	5.00			4821.00	
Safety Joint	3.00			4824.00	
Packer	4.00			4828.00	28.00 Bottom Of Top Packer
Packer	5.00			4833.00	
Stubb	1.00			4834.00	
Recorder	0.00	8370	Inside	4834.00	
Recorder	0.00	8352	Outside	4834.00	
Perforations	2.00			4836.00	
Bullnose	5.00			4841.00	8.00 Bottom Packers & Anchor

**Total Tool Length: 36.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co Inc

**3-33s-19w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Palmer #2**

Job Ticket: 47591

**DST#: 2**

ATTN: David Barker

Test Start: 2012.08.02 @ 04:01:02

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40.7 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

93000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
625.00	SW	7.401
145.00	MW w/oil specs 19%m 81%w	2.034
60.00	CGO 4%g 96%o	0.842
0.00	2735 ft.of GIP	0.000

Total Length: 830.00 ft

Total Volume: 10.277 bbl

Num Fluid Samples: 0

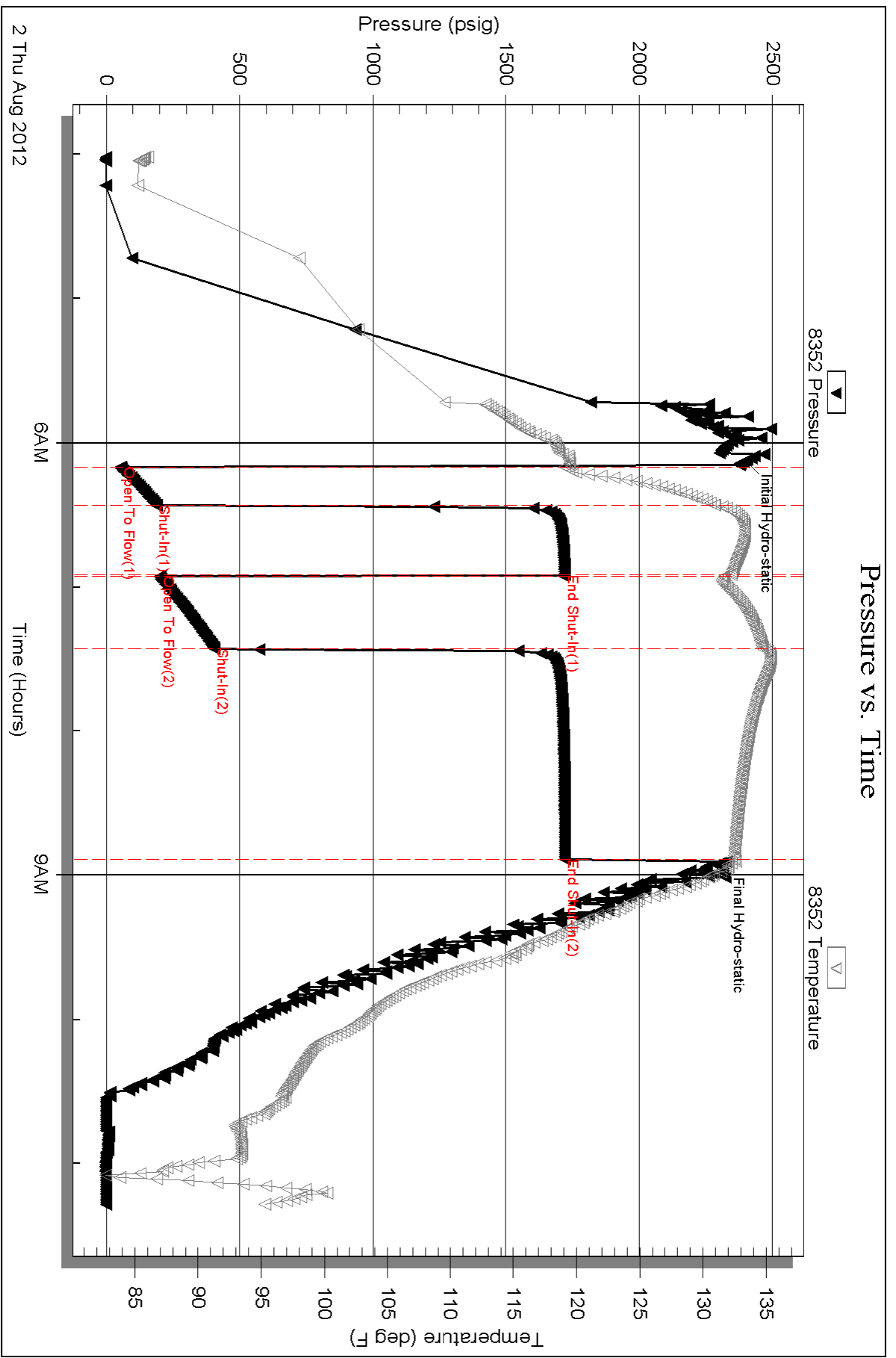
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .065 ohms @93deg



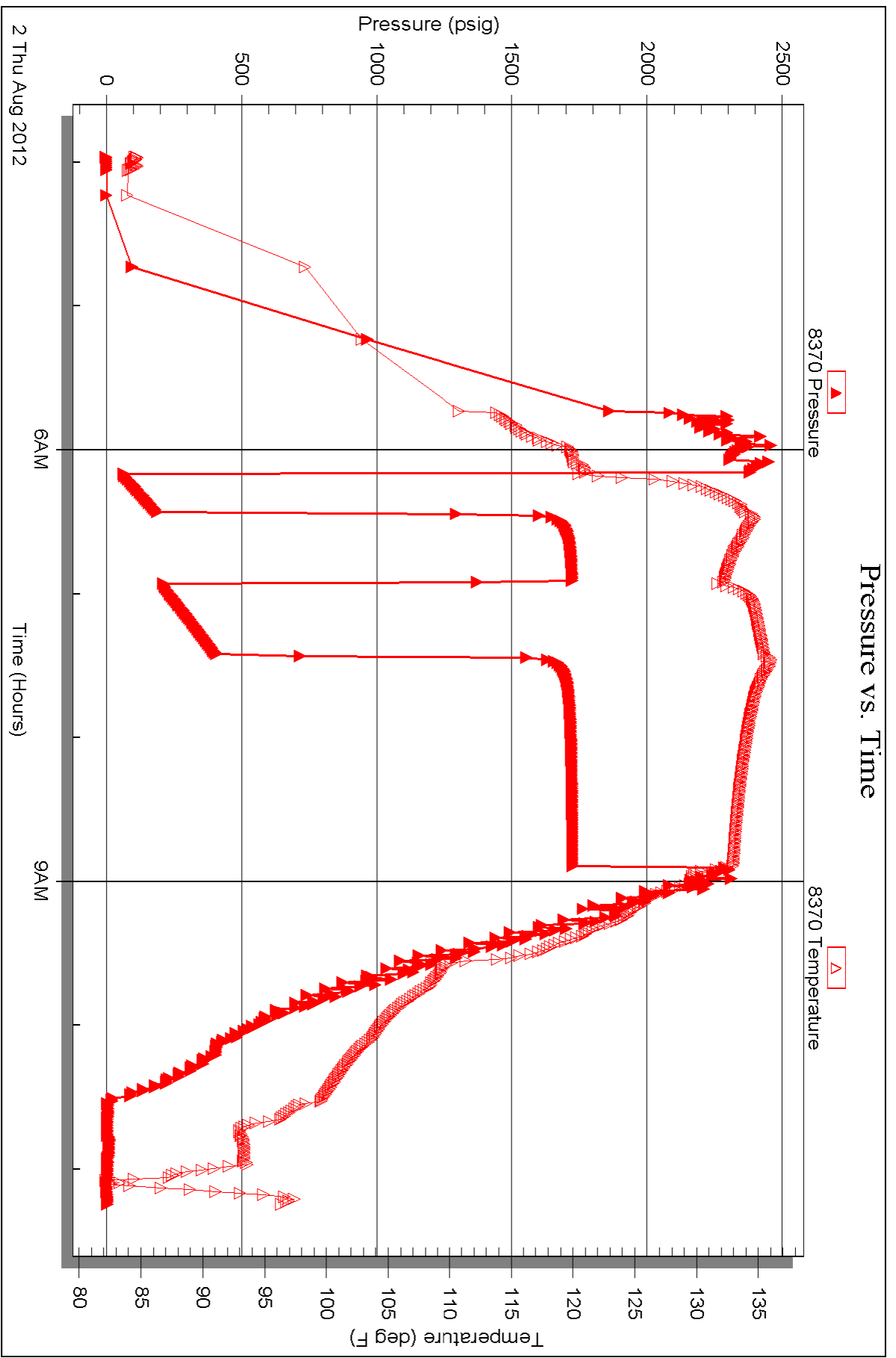
Serial #: 8370

Inside

Chieftain Oil Co Inc

Palmer #2

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47590

Well Name & No. PALMER # 2 Test No. 1 Date 8-1-12  
 Company CHIEFTAIN OIL Co. INC. Elevation 1485 KB 1473 GL  
 Address P.O. Box 124, K20WA Ks. 67070  
 Co. Rep / Geo. DAVID BARKER Rig Fossil DRUG #3  
 Location: Sec. 3 Twp. 33S Rge. 10W Co. BARBER State Ks.

Interval Tested 4741 - 4782' Zone Tested VIOLA  
 Anchor Length 41' Drill Pipe Run 4594' Mud Wt. 9.3  
 Top Packer Depth 4736' Drill Collars Run 150 Vis 67  
 Bottom Packer Depth 4741' Wt. Pipe Run 0 WL 88cc  
 Total Depth 4782' Chlorides 5300 ppm System LCM 3#  
 Blow Description IF: Strong blow. B.O.B. in 2 mins. ISI: No blow

FF: Strong blow. B.O.B. in 2-3 seconds. FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>3510</u>	<u>Gas in pipe</u>				
<u>80</u>	<u>SOC, GM</u>	<u>32%</u>	<u>4</u>	<u>%water</u>	<u>64</u>

Rec Total 80 Fluid BHT 124° Gravity N/A API RW N.C. @ — °F Chlorides 5300 ppm

(A) Initial Hydrostatic 2360  Test 1250 T-On Location 0437  
 (B) First Initial Flow 30  Jars 250 T-Started 0621  
 (C) First Final Flow 37  Safety Joint 75 T-Open 0834  
 (D) Initial Shut-In 896  Circ Sub T-Pulled 1207  
 (E) Second Initial Flow 28  Hourly Standby T-Out ~~1207~~ 1426  
 (F) Second Final Flow 47  Mileage 104.1 161.20 Comments \_\_\_\_\_  
 (G) Final Shut-In 808  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2340  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1736.20 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 90

Approved By

Our Representative

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47591

Well Name & No. PALMER #2 Test No. 2 Date 8-2-12  
 Company CHIEFTAIN Oil Co. Inc. Elevation 1485 KB 1473 GL  
 Address P.O. Box 124, KIOWA Ks 67070  
 Co. Rep / Geo. DAVID BARKER Rig Fossil DRUG #3  
 Location: Sec. 3 Twp. 33<sup>s</sup> Rge. 10<sup>w</sup> Co. BARBER State Ks.

Interval Tested 4833 - 4841' Zone Tested SIMPSON  
 Anchor Length 8' Drill Pipe Run 4660 Mud Wt. 9.1  
 Top Packer Depth 4828' Drill Collars Run 150 Vis 68  
 Bottom Packer Depth 4833' Wt. Pipe Run 0 WL 9.2cc  
 Total Depth 4841' Chlorides 5300 ppm System LCM 7 #

Blow Description IF: Strong blow. B.O.B. in 96 seconds. ISF: Strong blow. B.O.B.  
FF: Strong blow. B.O.B. in 4 mins. FSI: Strong blow. B.O.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2735</u>	<u>Feet of Cas in pipe</u>				
<u>60</u>	<u>Feet of CGO</u>	<u>4</u>	<u>96</u>		
<u>145</u>	<u>Feet of MW w oil spec.</u>			<u>81</u>	<u>19</u>
<u>625</u>	<u>Feet of SW</u>				

Rec Total 830 Final BHT 128° Gravity 40.7 API RW 265 @ 93° F Chlorides 93,000 ppm

(A) Initial Hydrostatic 2400  Test 1250 T-On Location 0342  
 (B) First Initial Flow 55  Jars 250 T-Started 0401  
 (C) First Final Flow 188  Safety Joint 75 T-Open 0610  
 (D) Initial Shut-In 1721  Circ Sub T-Pulled 0848  
 (E) Second Initial Flow 203  Hourly Standby T-Out 1117  
 (F) Second Final Flow 406  Mileage 104.1 161.20 \*Comments PLEASE E-MAIL PDF TO DAVID BARKER @ dbarker@5bcglobal.net  
 (G) Final Shut-In 1723  Sampler  Ruined Shale Packer  
 (H) Final Hydrostatic 2296  Straddle  Ruined Packer  
 Shale Packer  Extra Copies  
 Extra Packer  Extra Recorder  
 Initial Open 15  Extra Recorder Sub Total 0  
 Initial Shut-In 30  Day Standby Total 1736.20  
 Final Flow 30  Accessibility MP/DST Disc't  
 Final Shut-In 60/75 WORKING ON BARBER Sub Total 1736.20

Approved By [Signature] Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





PAGE 1 of 1	CUST NO 100719	INVOICE DATE 07/28/2012
INVOICE NUMBER <b>1718 - 90964676</b>		

Pratt (620) 672-1201  
 B CHIEFTAIN OIL COMPANY  
 I PO Box: 124  
 L KIOWA  
 L KS US 67070  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Palmer #2  
 O LOCATION  
 B COUNTY Barber  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40492410	27463		Net - 30 days	08/27/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 07/25/2012 to 07/25/2012</i>				
0040492410				
171806522A Cement-New Well Casing/Pi 07/25/2012				
Cement 8 5/8" Surface				
60/40 POZ	300.00	EA	9.00	2,699.74
Celloflake	75.00	EA	2.77	208.11
Calcium Chloride	774.00	EA	0.79	609.47
"Wooden Cmt Plug, 8 5/8" "	1.00	EA	119.99	119.99
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	3.19	143.42
Heavy Equipment Mileage	90.00	MI	5.25	472.46
"Proppant & Bulk Del. Chgs., per ton mil	581.00	EA	1.20	697.13
Depth Charge; 0-500'	1.00	EA	749.93	749.93
Blending & Mixing Service Charge	300.00	BAG	1.05	314.97
Plug Container Util. Chg.	1.00	EA	187.48	187.48
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.24	131.24

9304 BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,333.94
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	256.76
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	6,590.70
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 06522 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>07-25-12</b> DISTRICT <b>PRATT KS</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <b>Chetland Oil</b>		LEASE <b>PALMIER</b> WELL NO. <b>2</b>							
ADDRESS		COUNTY <b>BARBER</b> STATE <b>KS</b>							
CITY STATE		SERVICE CREW <b>Sullivan, McGraw, Phye</b>							
AUTHORIZED BY		JOB TYPE: <b>CW 8 1/2" surface</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>27463</b>	<b>30</b>					<b>7-24-12</b>	<b>11:30</b>		
<b>19826-17918</b>	<b>30</b>					<b>7-25-12</b>	<b>1:45</b>		
<b>37900</b>									
						ARRIVED AT JOB		AM	PM
						START OPERATION		AM	PM
						FINISH OPERATION		AM	PM
						RELEASED		AM	PM
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	600/40 P02 cm?	SK	300		3,600 00
CC 102	Gal H <sub>2</sub> O	lb	75		277 50
PC 109	Calcium chloride	lb	774		812 70
PF 153	Wooden Plug 8 1/2"	SA	1		160 00
P 100	Pickup mil	mi	45		191 25
E 101	Heavy Sand mi	mi	90		630 00
E 113	Bulk Adhesive	SM	581		928 80
CE 200	Depth decrease	SA	1		1,000 00
CE 240	Blending - mixing	SK	300		420 00
CE 504	Plug Cement Rental	SA	1		250 00
S 003	Solvent Sealing	SA	1		175 00

SUB TOTAL  
**DLS 6,333 94**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	

Thank you TOTAL

SERVICE REPRESENTATIVE <b>Robert Sullivan</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <b>[Signature]</b>
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



Customer <i>CH. HAIN OIL</i>	Lease No.	Date <i>07-25-12</i>
Lease <i>Palmer</i>	Well # <i>2</i>	
Field Order # <i>0522</i>	Station <i>PRATT KS</i>	Casing <i>8 7/8</i>
		Depth <i>297'</i>
Type Job <i>CNW 8 7/8 Surface</i>	Formation	County <i>BARBER</i>
		State <i>KS</i>
		Legal Description <i>3-33-10</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>8 7/8</i>								
Depth <i>311'</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>18</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>200</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>T.C</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>297'</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Fuller</i>
-------------------------	--------------------------------------	---------------------------------

Service Units	<i>3790</i>	<i>27463</i>	<i>19826</i>	<i>19918</i>					
Driver Names	<i>Sullivan</i>	<i>McGraw</i>	<i>Phyllis</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1:45 AM</i>					<i>on loc safety meeting</i>
					<i>run 7 575 8 7/8 24 csg.</i>
<i>5:55</i>					<i>CRING ON BOTTOM</i>
<i>6:05</i>					<i>Hook Up To circ.</i>
<i>6:10</i>			<i>3</i>	<i>4</i>	<i>1st spacer</i>
			<i>64</i>	<i>4.5</i>	<i>mix cont 300ck 60% for cont</i>
					<i>cont mix. I shut down</i>
					<i>Release Plug</i>
				<i>3</i>	<i>1st Prop</i>
<i>6:45</i>	<i>200</i>		<i>18</i>		<i>Plug down</i>
					<i>circ 10 BBL cont to PIT</i>
					<i>SOB Complete</i>
					<i>Thank you</i>



PAGE 1 of 1	CUST NO 1000719	INVOICE DATE 08/07/2012
INVOICE NUMBER 1718 - 90972223		

Pratt (620) 672-1201  
 B CHIEFTAIN OIL COMPANY  
 I PO Box: 124  
 L KIOWA  
 L KS US 67070  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Palmer 2  
 O LOCATION  
 B COUNTY Barber  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40496264	19843		Net - 30 days	09/06/2012

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/04/2012 to 08/04/2012</i>				
0040496264				
171806855A Cement-New Well Casing/Pi 08/04/2012				
Cement 5 1/2" Longstring				
AA2 Cement	250.00	EA	12.75	3,187.41 T
C-41P	47.00	EA	3.00	141.00 T
Salt	1,238.00	EA	0.37	464.24 T
C-44	235.00	EA	3.86	907.67 T
FLA-322	188.00	EA	5.62	1,057.48 T
Gilsonite	1,250.00	EA	0.50	628.11 T
"Latch Down Plug & Baffle, 4 1/2"" (Blu	1.00	EA	299.99	299.99
"Auto Fill Float Shoe 5 1/2"" (Blue)"	1.00	EA	269.99	269.99
"Turbolizer, 5 1/2"" (Blue)"	7.00	EA	82.50	577.49
"5 1/2"" Basket (Blue)"	2.00	EA	217.50	434.99
Claymax KCL Substitute	5.00	EA	26.25	131.25 T
Mud Flush	500.00	EA	0.64	322.49 T
Super Flush II	500.00	EA	1.15	573.74 T
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	3.19	143.43
Heavy Equipment Mileage	90.00	MI	5.25	472.49
"Proppant & Bulk Del. Chgs., per ton mil	529.00	EA	1.20	634.79
Depth Charge; 5001-6000'	1.00	EA	2,159.95	2,159.95
Blending & Mixing Service Charge	250.00	BAG	1.05	262.49
Plug Container Util. Chg.	1.00	EA	187.50	187.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.25	131.25

*AUG 07 2012*  
*930486*

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,987.75
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	541.18
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	13,528.93
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 06855 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>8-4-2012</b> DISTRICT <b>PRATT, Ks.</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:				
CUSTOMER <b>CHIEFTAIN OIL CO., INC.</b>		LEASE <b>PALMER</b> WELL NO. <b>2</b>				
ADDRESS		COUNTY <b>BARBER</b> STATE <b>Ks.</b>				
CITY STATE		SERVICE CREW <b>LESLEY, MARQUEZ, LAWRENCE</b>				
AUTHORIZED BY		JOB TYPE: <b>CNW-5 1/2" L.S.</b>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>8-3-2012</b> DATE <b>8-3-2012</b> AM PM <b>10:30</b> TIME
<b>37586</b>	<b>7</b>					ARRIVED AT JOB <b>8-4-2012</b> AM PM <b>12:00</b>
<b>19889-19843</b>	<b>7</b>					START OPERATION <b>2:30</b> AM PM
<b>19959-19860</b>	<b>7</b>					FINISH OPERATION <b>9:00</b> AM PM
						RELEASED <b>9:30</b> AM PM
						MILES FROM STATION TO WELL <b>45</b>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 CEMENT	SK	200		3,400.00
CP 105	AA-2 CEMENT	SK	50		850.00
CC 105	C-41P DEFOAMER	lb	47		188.00
CC 111	SALT	lb	1238		619.00
CC 115	C-44	lb	235		1,210.25
CC 129	FLA-322 LOW FLUID LOSS	lb	188		1,410.00
CC 201	GILSONITE	lb	1250		837.50
CF 607	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1		400.00
CF 1251	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1		360.00
CF 1651	TURBOLIZER, 5 1/2"	EA	7		770.00
CF 1901	BASKET, 5 1/2"	EA	2		580.00
C 704	CLAYMAX, KCL SUB.	GAL	5		175.00
CC 151	MUD FLUSH	GAL	500		430.00
CC 155	SUPER FLUSH II	GAL	500		765.00
E 100	PICKUP MILEAGE	MI	45		191.25
E 101	HEAVY EQUIPMENT MILEAGE	MI	90		630.00
E 113	BULK DELIVERY CHARGE	TM	529		8,460.00
CE 206	DEPTH CHARGE; 5001-6000'	HR	1-4		2,880.00
CE 240	BLENDING SERVICE CHARGE	SK	250		350.00
CE 504	PLUG CONTAINER CHARGE	JOB	1	250.00	
	CHEMICAL/ACID DATA: <b>SUP</b>	EA	1	175.00	
	<b>WATER SERVICE SUPERVISOR</b>				
				SUB TOTAL	12,987.75
				%TAX ON \$ <b>2.5</b>	
				%TAX ON \$	
				TOTAL	

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>CHIEFTAIN OIL &amp; GAS</b>	Lease No.	Date <b>8-4-2012</b>
Lease <b>PALMER</b>	Well # <b>2</b>	
Field Order # <b>06855</b>	Station <b>PRATT, Ks.</b>	Casing <b>5 1/2"</b>
Type Job <b>CNW-5 1/2" L.S.</b>	Formation <b>TD-5014'</b>	Depth <b>3-33-10</b>
	County <b>BARBER</b>	State <b>Ks.</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2 x 15.5</b>	Tubing Size	Shots/Ft	<b>CMT-</b>	Acid <b>200 SKS AA-2</b>		RATE	PRESS	ISIP
Depth <b>7798.57</b>	Depth	From	To	Pre Pad <b>@ 1.43 CUFT<sup>3</sup></b>	Max			5 Min.
Volume <b>118.96 BBL</b>	Volume	From	To	Pad	Min	<b>55 = 44.83'</b>		10 Min.
Max Press <b>1500</b>	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth <b>4753.74</b>	Packer Depth	From	To	Flush <b>118 BBL - 2 1/2 KCL</b>	Gas Volume			Total Load

Customer Representative <b>RON MOLZ</b>	Station Manager <b>D. SCOTT</b>	Treater <b>K. LESLEY</b>
--	------------------------------------	-----------------------------

Service Units	<b>37586</b>	<b>19889</b>	<b>19843</b>	<b>19959</b>	<b>19860</b>				
Driver Names	<b>LESLEY</b>	<b>MARQUEZ</b>	<b>---</b>	<b>LAWRENCE</b>	<b>---</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:00 AM					ON LOCATION - SAFETY MEETING
2:30 AM					RUN 116 JTS. 5 1/2" x 15.5" CSG.
					TURBO. - 4, 6, 10, 11, 13, 14, 15
					BASK. - 2, 8
4:00 AM - 4:30 AM					CIRC. 1/2 WAY IN HOLE
5:40 AM					CSG. ON BOTTOM
6:40 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
7:45 AM	500		12	6	MOD FLUSH
7:54 AM	450		3	6	H <sub>2</sub> O SPACER
7:55 AM	450		12	6	SUPER FLUSH
7:57 AM	400		3	6	H <sub>2</sub> O SPACER
7:58 AM	300		51	6	MIX 200 SKS. CMT. @ 15.0 PPG
8:07 AM					CLEAR PUMP & LINE - DROP L.D. PLUG
8:12 AM	0		0	7	START DISPLACEMENT W/ 2% KCL
8:23 AM	200		80	6	LIFT PRESSURE
8:38 AM	800		110	5	SLOW RATE
8:30 AM	1500		118	4	PLUG DOWN - HELD
					CIRC. THRU JOB
					PLUG R.H. & M.H.
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY