



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

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

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

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

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

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

Total 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**

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



1087495

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

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

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Blick 2
Doc ID	1087495

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Blick 2
Doc ID	1087495

Tops

Name	Top	Datum
Heebner	3562	-2060
Toronto	3579	-2077
Kansas City	4073	-2571
Hushpuckney Sh.	4266	-2764
Cherokee Sh.	4461	-2959
Mississippian	4520	-3018
Chattanooga Sh.	4772	-3270
Viola	4812	-3310
Simpson Sd.	4896	-3394
Arbuckle	5054	-3552
Total Depth	5112	-3610



PAGE 1 of 1	CVT NO 1000719	INVOICE DATE 05/07/2012
INVOICE NUMBER 1718 - 90897879		

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 Blick 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
40460758	20920		Net - 30 days	06/06/2012

	QTY	U of	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/05/2012 to 05/05/2012</i>				
0040460758				
171806262A Cement-New Well Casing/Pi 05/05/2012 Cement 8 5/8" Surface				
60/40 POZ	300.00	EA	9.48	2,843.74 T
Celloflake	75.00	EA	2.92	219.20 T
Calcium Chloride	774.00	EA	0.83	641.97 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	126.39	126.39
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	3.36	151.07
Heavy Equipment Mileage	90.00	MI	5.53	497.65
"Proppant & Bulk Del. Chgs., per ton mil	581.00	EA	1.26	734.31
Depth Charge; 7001'-8000'	300.00	EA	1.11	331.77
Plug Container Util. Chg.	1.00	EA	197.48	197.48
"Service Supervisor, first 8 hrs on loc.	1.00	EA	138.24	138.24
Depth Charge; 0-500'	1.00	EA	789.93	789.93

MAY 15 2012  
 9121 BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	6,671.75
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	270.46
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	6,942.21
DALLAS, TX 75284-1903	MIDLAND, TX 79702		









PAGE 1 of 1	CUSTOMER NO 1000719	INVOICE DATE 05/15/2012
INVOICE NUMBER 1718 - 90904541		

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 Blick 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	
40463453	20920		Net - 30 days	06/14/2012	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/14/2012 to 05/14/2012</i> 0040463453 171806408A Cement-New Well Casing/Pi 05/14/2012 Cement 5 1/2" Longstring <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">             MAY 29 2012              9121 BC           </div>					
AA2 Cement		250.00	EA	13.43	3,357.41 T
C-41P		47.00	EA	3.16	148.52 T
Salt		1,238.00	EA	0.39	489.00 T
C-44		235.00	EA	4.07	956.08 T
FLA-322		188.00	EA	5.92	1,113.87 T
Gilsonite		1,250.00	EA	0.53	661.61 T
Mud Flush		500.00	EA	0.68	339.69 T
Super Flush		500.00	EA	1.21	604.34 T
Claymax KCL Substitute		5.00	EA	27.65	138.25 T
"Latch Down Plug & Baffle, 5 1/2" (Blu		1.00	EA	315.99	315.99
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	284.39	284.39
"Turbolizer, 5 1/2" (Blue)"		7.00	EA	86.90	608.29
"5 1/2" Basket (Blue)"		2.00	EA	229.10	458.19
"Unit Mileage Chg (PU, cars one way)"		45.00	MI	3.36	151.08
Heavy Equipment Mileage		90.00	MI	5.53	497.69
"Proppant & Bulk Del. Chgs., per ton mil		529.00	EA	1.26	668.64
Depth Charge; 5001-6000'		1.00	EA	2,275.15	2,275.15
Blending & Mixing Service Charge		250.00	BAG	1.11	276.49
Plug Container Util. Chg.		1.00	EA	197.50	197.50
"Service Supervisor, first 8 hrs on loc.		1.00	EA	138.25	138.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	13,680.43
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	570.04
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	14,250.47
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 06408 A

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

DATE OF JOB <b>5-14-12</b> DISTRICT <b>Pratt</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>Chief Tain Oil Co</b>		LEASE <b>Blick 2</b> WELL NO. <b>2</b>							
ADDRESS		COUNTY <b>Barber</b> STATE <b>KS</b>							
CITY STATE		SERVICE CREW <b>Wright Lawrence Melson</b>							
AUTHORIZED BY		JOB TYPE: <b>CNW 5/2 LS</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>33708-20920</b>	<b>2 hr</b>						<b>5-14</b>	<b>AM</b>	<b>1:20</b>
<b>19531-19862</b>	<b>2 hr</b>					ARRIVED AT JOB	<b>5-14</b>	<b>AM</b>	<b>3:00</b>
<b>37586</b>						START OPERATION	<b>5-14</b>	<b>AM</b>	<b>9:45</b>
						FINISH OPERATION	<b>5-14</b>	<b>AM</b>	<b>10:35</b>
						RELEASED	<b>5-14</b>	<b>AM</b>	<b>11:30</b>
						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	AA2 cement	S/S	200		3,400 00
CP 105	AA2 cement	S/S	50		850 00
CL 105	C-41 P	lb	47		188 00
CL 111	SALT	lb	1238		619 00
CL 115	C-44	lb	235		1,210 25
CL 129	FLA-322	lb	188		1,410 00
CL 201	GILSONITE	lb	1250		837 50
CF 007	Latch Down Plug	ea	1		400 00
CF 1251	AUTO FILL FLAP SHOE	ea	1		360 00
CF 1651	Turbolizer	ea	7		770 00
CF 1901	Basket	ea	2		580 00
C 704	CLAY MAX	94L	5		175 00
CL 151	MUD FLUSH	94L	500		430 00
CL 155	SUPER FLUSH	94L	500		765 00

CHEMICAL / ACID DATA:			

SUB TOTAL		<b>DLS</b>
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
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FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



Customer	Chiefs Tain Oil Co	Lease No.		Date	5-14-2012						
Lease	BLICK	Well #	1								
Field Order #	6408	Station	Pratt	Casing	5/2	Depth	5109	County	Barber	State	KS
Type Job	CNW 5/2 LS		Formation	TD		Legal Description	4-33-10				

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
5/2								
Depth	Depth	From	To	Pre Pad		Max		5 Min.
5109								
Volume	Volume	From	To	Pad		Min		10 Min.
121								
Max Press	Max Press	From	To	Frac		Avg		15 Min.
2000								
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load
5089								

Customer Representative	Station Manager		Treater
Service Units	33709 20920	14831 19862	37586
Driver Names	Wright	Lowrey	Melton

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3 Pm					ON LOC. - Safety Meeting
					Run 121 JTS. 5/2 15.5# casing
					TURBO. 4, 5, 12, 14, 15, 16, 17
					Basket 2, 9
					circ. for 30min 1/2 way in hole
					circ. 1hr on bottom
8:55					Hooks up to circ. with Rig
9:45			3	4	H2O spacer
			12	4	mud flush
			3	4	H2O spacer
			12	4	super flush
			3	4	H2O spacer
10			50	5	Mix 200SK of AA-2 at 15#
					Clear Pump & Line / PROP Plug
10:15				6.5	Start Disp. with 2% KCL
10:28			55	6.5	LIST Pressure
10:30				5	SLOW RATE
10:35			120	5	Plug DOWN / Plug Held
					JOB complete
					Thank you Joe



## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co Inc**

PO Box 124  
Kiowa KS 67070

ATTN: Ron Molz/ Dave Barke

### **Blick # 2**

#### **4-33s-10w Barber,KS**

Start Date: 2012.05.11 @ 07:45:00

End Date: 2012.05.11 @ 19:16:00

Job Ticket #: 47741                      DST #: 1

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

Printed: 2012.05.16 @ 14:00:26



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co Inc

**4-33s-10w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Blick # 2**

Job Ticket: 47741

**DST#: 1**

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.11 @ 07:45:00

## GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:45

Time Test Ended: 19:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

**Interval: 4798.00 ft (KB) To 4836.00 ft (KB) (TVD)**

Reference Elevations: 1502.00 ft (KB)

Total Depth: 4836.00 ft (KB) (TVD)

1494.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6755 Inside**

Press @ Run Depth: 55.53 psig @ 4799.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.11

End Date:

2012.05.11

Last Calib.: 2012.05.11

Start Time: 07:45:05

End Time:

19:16:00

Time On Btm: 2012.05.11 @ 12:54:45

Time Off Btm: 2012.05.11 @ 16:45:30

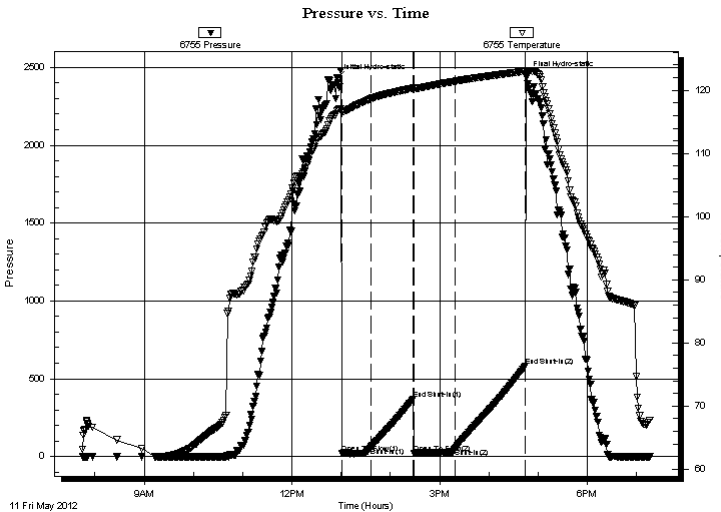
TEST COMMENT: IF: Weak blow 3 1/4"

ISI: No blow back

FF: Strong blow BOB 1 min

FSI: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2430.38	116.74	Initial Hydro-static
6	21.82	116.51	Open To Flow (1)
42	60.16	118.63	Shut-In(1)
93	369.00	120.34	End Shut-In(1)
95	21.16	120.20	Open To Flow (2)
145	55.53	121.43	Shut-In(2)
230	580.37	123.01	End Shut-In(2)
231	2445.42	123.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	496' GIP	0.00
40.00	G,M 5%gas 95% mud	0.20

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co Inc

**4-33s-10w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Blick # 2**

Job Ticket: 47741

**DST#: 1**

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.11 @ 07:45:00

## Tool Information

Drill Pipe:	Length: 4675.00 ft	Diameter: 3.80 inches	Volume: 65.58 bbl	Tool Weight: 2200.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 66.19 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4798.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	67.00 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			4770.00	
Shut In Tool	5.00			4775.00	
Hydraulic tool	5.00			4780.00	
Jars	5.00			4785.00	
Safety Joint	3.00			4788.00	
Packer	5.00			4793.00	29.00 Bottom Of Top Packer
Packer	5.00			4798.00	
Stubb	1.00			4799.00	
Recorder	0.00	6773	Outside	4799.00	
Recorder	0.00	6755	Inside	4799.00	
Perforations	3.00			4802.00	
Change Over Sub	0.50			4802.50	
Drill Pipe	30.00			4832.50	
Change Over Sub	0.50			4833.00	
Bullnose	3.00			4836.00	38.00 Bottom Packers & Anchor

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co Inc

**4-33s-10w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Blick # 2**

Job Ticket: 47741

**DST#: 1**

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.11 @ 07:45:00

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	496' GIP	0.000
40.00	G,M 5%gas 95% mud	0.197

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



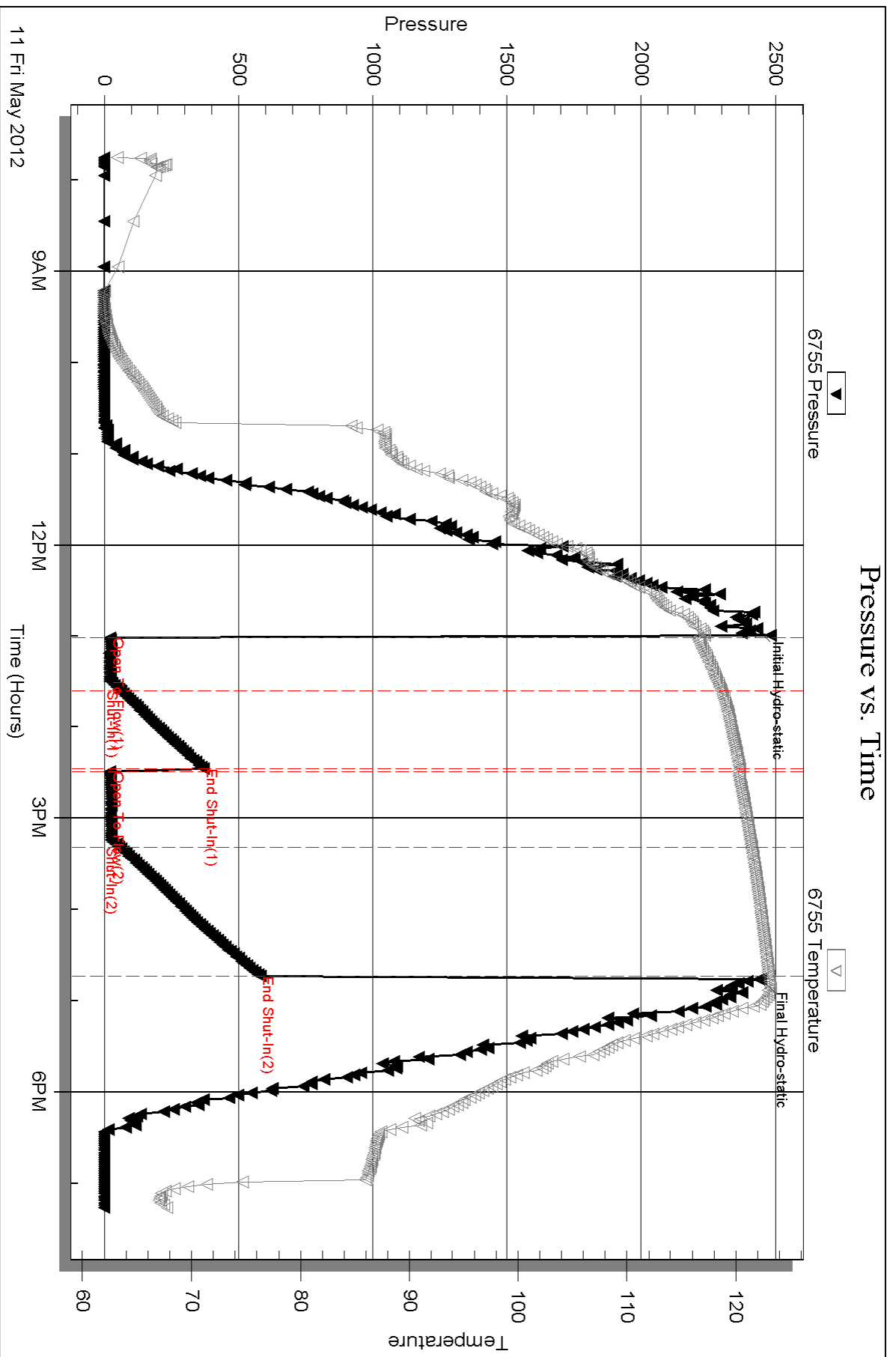
Serial #: 6755

Inside

Chieftain Oil Co Inc

Block # 2

DST Test Number: 1

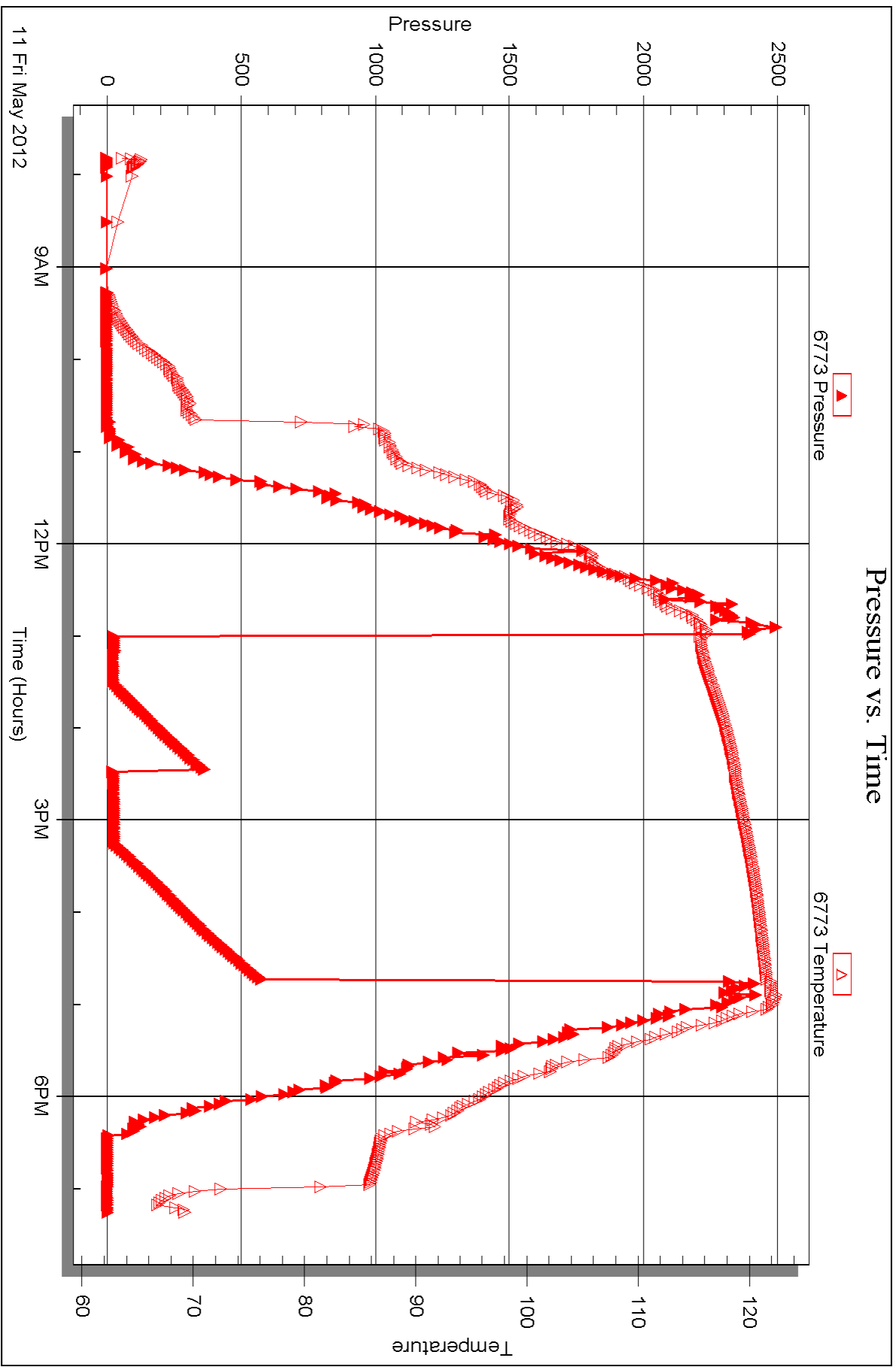


Serial #: 6773

Outside Chieftain Oil Co Inc

Blck # 2

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co Inc**

PO Box 124  
Kiowa KS 67070

ATTN: Ron Molz/ Dave Barke

### **Blick # 2**

### **4-33s-10w Barber,KS**

Start Date: 2012.05.12 @ 17:36:00

End Date: 2012.05.13 @ 02:53:00

Job Ticket #: 47742                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
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Printed: 2012.05.16 @ 13:59:42



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co Inc

**4-33s-10w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Blick # 2**

Job Ticket: 47742

**DST#: 2**

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.12 @ 17:36:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:50:00

Time Test Ended: 02:53:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chris Staats

Unit No: 47

**Interval: 4883.00 ft (KB) To 4903.00 ft (KB) (TVD)**

Reference Elevations: 1502.00 ft (KB)

Total Depth: 4903.00 ft (KB) (TVD)

1494.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6755 Inside**

Press @ Run Depth: 56.43 psig @ 4884.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.12

End Date:

2012.05.13

Last Calib.: 2012.05.13

Start Time: 17:36:05

End Time:

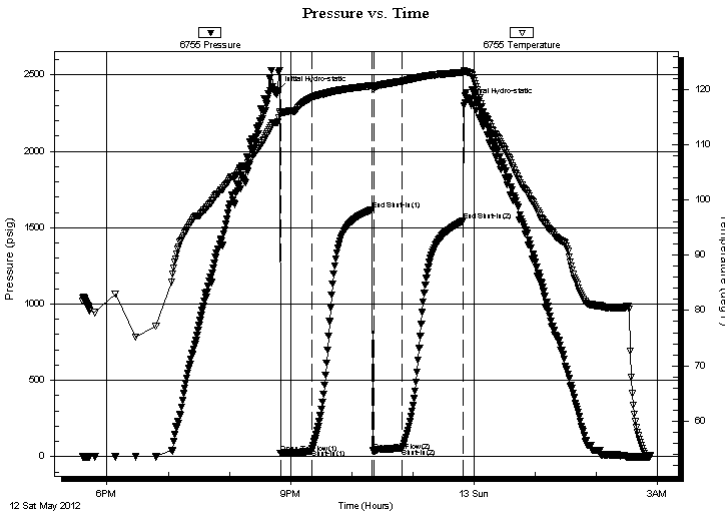
02:53:00

Time On Btm: 2012.05.12 @ 20:47:15

Time Off Btm: 2012.05.12 @ 23:51:00

**TEST COMMENT:** IF: Strong blow BOB 18 min  
IS: No blow back  
FF: Strong blow BOB 1 min  
FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2396.98	114.08	Initial Hydro-static
3	23.15	115.67	Open To Flow (1)
34	50.82	118.53	Shut-In(1)
93	1617.79	120.68	End Shut-In(1)
95	33.83	120.24	Open To Flow (2)
123	56.43	121.51	Shut-In(2)
182	1542.85	123.10	End Shut-In(2)
184	2320.52	123.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	930' GIP	0.00
50.00	M,W,O,G 5% gas 5% oil 40% mud 50%	w0.25
62.00	G,O,M,W 5% gas 5% oil 20% mud 70%	w0.30

## Gas Rates

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

\* Recovery from multiple tests





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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co Inc

**4-33s-10w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Blick # 2**

Job Ticket: 47742

**DST#: 2**

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.12 @ 17:36:00

## Tool Information

Drill Pipe:	Length: 4736.00 ft	Diameter: 3.80 inches	Volume: 66.43 bbl	Tool Weight: 2200.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 67.04 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4883.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4855.00	
Shut In Tool	5.00			4860.00	
Hydraulic tool	5.00			4865.00	
Jars	5.00			4870.00	
Safety Joint	3.00			4873.00	
Packer	5.00			4878.00	29.00 Bottom Of Top Packer
Packer	5.00			4883.00	
Stubb	1.00			4884.00	
Recorder	0.00	6773	Outside	4884.00	
Recorder	0.00	6755	Inside	4884.00	
Perforations	16.00			4900.00	
Bullnose	3.00			4903.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co Inc

**4-33s-10w Barber,KS**

PO Box 124  
Kiowa KS 67070

**Blick # 2**

Job Ticket: 47742

**DST#: 2**

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.12 @ 17:36:00

## 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: 78.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	930' GIP	0.000
50.00	M,W,O,G 5% gas 5% oil 40% mud 50% water	0.246
62.00	G,O,M,W 5% gas 5% oil 20% mud 70% water	0.305

Total Length: 112.00 ft      Total Volume: 0.551 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

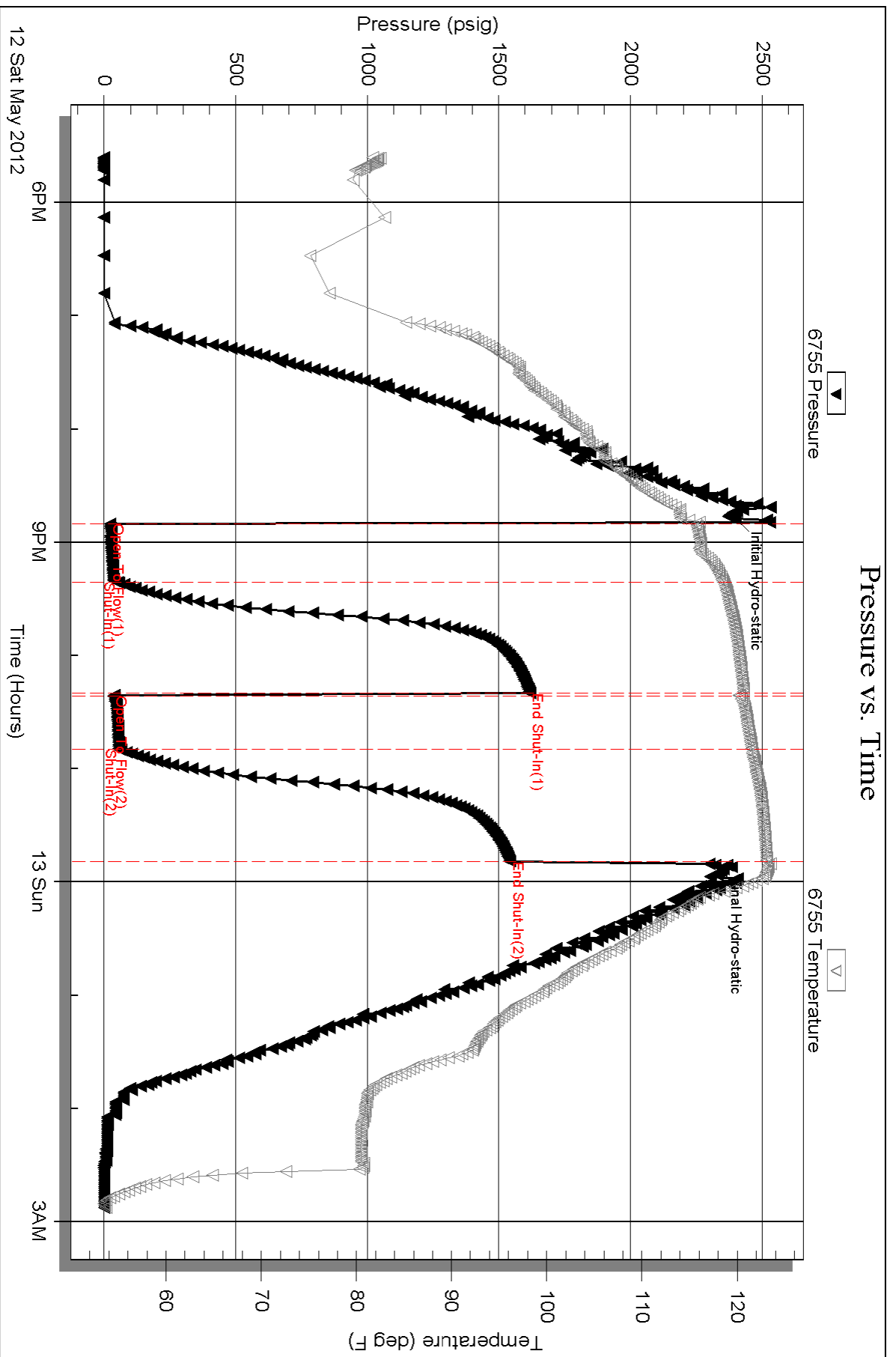
Serial #: 6755

Inside

Chieftain Oil Co Inc

Block # 2

DST Test Number: 2



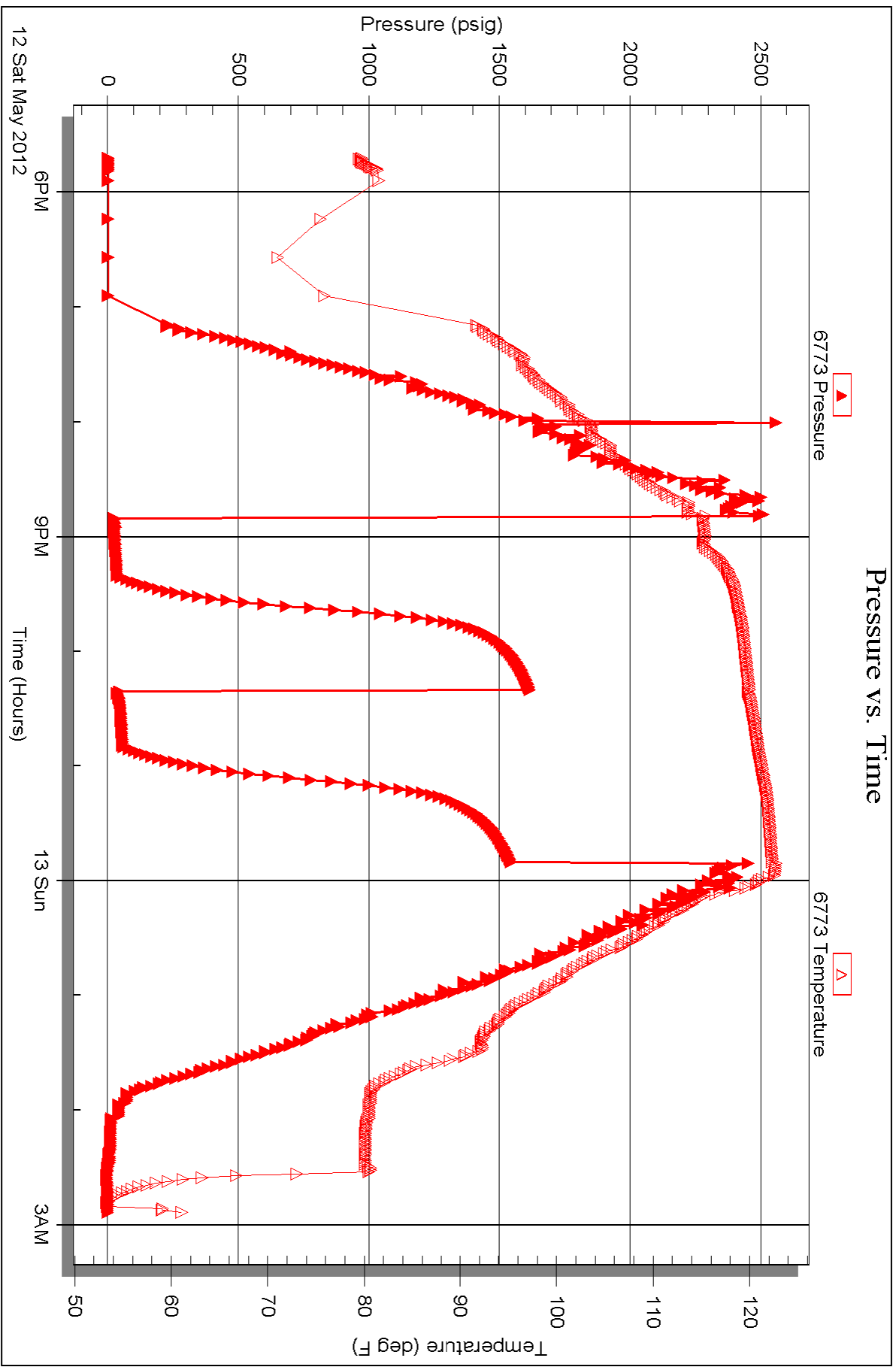


Serial #: 6773

Outside Chieftain Oil Co Inc

Blck # 2

DST Test Number: 2





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47741

Well Name & No. Blick #2 Test No. 1 Date 5-11-12  
 Company Chieftain Oil CO INC Elevation 1502 KB 1494 GL  
 Address 105 S 5th ST PO Box 124 Kiowa KS 67070  
 Co. Rep / Geo. Ron Molz / Dave Barker Rig Fossil Rig # 2  
 Location: Sec. 4 Twp. 33s Rge. 10w Co. Barber State KS

Interval Tested 4798 - 4836 Zone Tested Viola  
 Anchor Length 38' Drill Pipe Run 4675 Mud Wt. 9.0  
 Top Packer Depth 4793 Drill Collars Run 124 Vis 63  
 Bottom Packer Depth ~~4798~~ 4798 Wt. Pipe Run 0 WL 7.8  
 Total Depth 4836 Chlorides 4500 ppm System LCM 2#  
 Blow Description IF: weak blow 3 1/4"  
ISI: NO blow back  
FF: STRONG blow BOB 1 min  
FSL: NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
	<u>446' GIP</u>				
<u>40'</u>	<u>G.M</u>	<u>5</u>			<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>40'</u>	BHT <u>120</u>	Gravity <u>—</u>	API RW <u>—</u>	@ <u>—</u> °F	Chlorides <u>4500</u> ppm

(A) Initial Hydrostatic 2430  Test 1250 T-On Location 7:30  
 (B) First Initial Flow 21  Jars 250 T-Started 7:45  
 (C) First Final Flow 60  Safety Joint 75 T-Open 13:00  
 (D) Initial Shut-In 369  Circ Sub T-Pulled 16:45  
 (E) Second Initial Flow 21  Hourly Standby 1 2/3hrs 166 T-Out 19:10  
 (F) Second Final Flow 55  Mileage 100 miles 155  
 (G) Final Shut-In 580  Sampler  
 (H) Final Hydrostatic 2445  Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1896

Initial Open 30  
 Initial Shut-In ~~30~~ 60  
 Final Flow 45  
 Final Shut-In 90

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1896  
 MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative Ch. [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.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47742

Well Name & No. Blick #2 Test No. 2 Date 5-12-12  
 Company Chieftain Oil Co INC Elevation 1502 KB 1494 GL  
 Address 105 S 5th ST PO Box 124 Kiowa KS 67070  
 Co. Rep / Geo. Ron Molz / Dave Barker Rig Fossil Rig #2  
 Location: Sec. 4 Twp. 33 S Rge. 10 W Co. Barber State KS

Interval Tested 4883 - 4903 Zone Tested Simpson  
 Anchor Length 20' Drill Pipe Run 4736 Mud Wt. 9.1  
 Top Packer Depth 4878 Drill Collars Run 124 Vis 28  
 Bottom Packer Depth 4883 Wt. Pipe Run 0 WL 9.4  
 Total Depth 4903 Chlorides 5800 ppm System LCM 6#  
 Blow Description IF: STRONG blow BOB 18 min  
ISI: NO blow back  
FF: STRONG blow BOB 1 min  
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
	<u>930' GIP</u>	<u>100</u>			
<u>50'</u>	<u>M, O, W, G</u>	<u>5</u>	<u>5</u>	<u>50</u>	<u>40</u>
<u>62'</u>	<u>G, O, M, W</u>	<u>5</u>	<u>5</u>	<u>70</u>	<u>20</u>

Rec Total 112' BHT 120 Gravity NC API RW .17 @ 62° F Chlorides 50,000 ppm  
 (A) Initial Hydrostatic 2396  Test 1250 T-On Location 17:15  
 (B) First Initial Flow 23  Jars 250 T-Started 17:26  
 (C) First Final Flow 50  Safety Joint 75 T-Open 20:50  
 (D) Initial Shut-In 1617  Circ Sub \_\_\_\_\_ T-Pulled 23:50  
 (E) Second Initial Flow 33  Hourly Standby \_\_\_\_\_ T-Out 2:45  
 (F) Second Final Flow 56  Mileage 100 miles 155 Comments \_\_\_\_\_  
 (G) Final Shut-In 1542  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2320  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1730  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1730

Approved By [Signature] Our Representative [Signature]

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