



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1147917  
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: \_\_\_\_\_



1147917

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
--	---

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

<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> _____ <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	Phye 2
Doc ID	1147917

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Phye 2
Doc ID	1147917

Tops

Name	Top	Datum
Heebner	3558	-1974
Lansing	3742	-2158
Stark	4113	-2529
Hushpuckney	4150	-2566
Chattanooga	4541	-2957
Viola	4580	-2996
Simpson	4672	-3088
Simpson Sdst.	4704	-3120
Arbuckle	4768	-3184
Total Depth	4826	-3242



PAGE 1 of 1	CUST NO 1000719	INVOICE DATE 04/18/2013
INVOICE NUMBER <b>1718 - 91169128</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 Phye 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	
40585807	19843		Net - 30 days	05/18/2013	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/17/2013 to 04/17/2013</i>					
0040586807					
171807942A Cement-New Well Casing/Pi 04/17/2013					
Cement 8 5/8" Surface					
60/40 POZ		300.00	EA	9.00	2,699.99 T
Celloflake		75.00	EA	2.78	208.13 T
Calcium Chloride		774.00	EA	0.79	609.53 T
"Wooden Cmt Plug, 8 5/8" ""		1.00	EA	120.00	120.00
"Unit Mileage Chg (PU, cars one way)"		30.00	MI	3.19	95.63
Heavy Equipment Mileage		60.00	MI	5.25	315.00
"Proppant & Bulk Del. Chgs., per ton mil		387.00	EA	1.20	464.40
Depth Charge; 0-500'		1.00	EA	750.00	750.00
Blending & Mixing Service Charge		300.00	BAG	1.05	315.00
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

ENTERED  
 APR 23  
 91218C

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,896.43
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	256.79
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,153.22
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

1718



**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 07942 A

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

DATE OF JOB: <b>4-17-2013</b> DISTRICT _____		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>PHYE</b> WELL NO. <b>2</b>							
ADDRESS: _____		COUNTY: <b>BARBER</b> STATE: <b>Ks.</b>							
CITY: _____ STATE: _____		SERVICE CREW: <b>LESLEY, Mc GRAW, PIERSON</b>							
AUTHORIZED BY _____		JOB TYPE: <b>CNW - 8 5/8" S.P.</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37586	4.5						4-17-13	AM	12:00
19889-19843	4.5					ARRIVED AT JOB		AM	2:00
19831-19862	4.5					START OPERATION		AM	3:00
						FINISH OPERATION		AM	7:00
						RELEASED		AM	7:30
						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	100/40 POZ	SK	300		3,600.00
CC 102	CELLO FLAKE	lb	75		277.50
CC 109	CALCIUM CHLORIDE	lb	774		812.70
CF 153	WOODEN CMT. PLUG, 8 5/8"	EA	1		160.00
E 100	PICKUP MILEAGE	MI	30		127.50
E 101	HEAVY EQUIPMENT MILEAGE	MI	60		420.00
E 113	BULK DELIVERY CHARGE	TM	387		619.70
CE 200	DEPTH CHARGE; 0-500'	HR	1-4		1,000.00
CE 240	BLENDING SERVICE CHARGE	SK	300		420.00
CE 504	PLUG CONTAINER CHARGE	SOB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00

CHEMICAL / ACID DATA:			

SUB TOTAL \$ **5,896.43**

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

TOTAL \_\_\_\_\_

SERVICE REPRESENTATIVE: *Deena Lesley*

FIELD SERVICE ORDER NO. \_\_\_\_\_

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Ray Pugh*

(WELL OWNER OPERATOR, CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <b>CHEFTAIN OIL CO., INC.</b>	Lease No.	Date <b>4-17-2013</b>
Lease <b>PH4E</b>	Well # <b>2</b>	
Field Order # <b>07412</b>	Station <b>PRATT, KS.</b>	Casing <b>8 5/8"</b>
Type Job <b>CNW - 8 5/8" S.P.</b>	Formation <b>TD = 313'</b>	Legal Description <b>25-31-12</b>
	Depth	County <b>BARBER</b>
		State <b>Ks.</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>8 5/8" x 24'</b>	Tubing Size	Shots/Ft	<b>CMT-</b>	Acid <b>300 SKS. 60/40 P02</b>	RATE	PRESS	ISIP	
Depth <b>312'</b>	Depth	From	To	Pre Pad <b>(@ 1.21 CUFT<sup>3</sup>)</b>	Max		5 Min.	
Volume <b>14.84 BBL</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>500</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>241'</b>	Packer Depth	From	To	Flush <b>18.5 BBL</b>	Gas Volume		Total Load	

Customer Representative <b>RON MULLZ</b>	Station Manager <b>D. SCOTT</b>	Treater <b>K. LESLEY</b>
Service Units <b>37526</b>	<b>19889</b>	<b>19843</b>
Driver Names <b>LESLEY</b>	<b>AW</b>	<b>PIERSON</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:00 AM					ON LOCATION - SAFETY MEETING
4:30 AM					RUN @ 75. 8 5/8" x 24' CSG.
5:30 AM					CSG. ON BOTTOM
5:45 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
6:05 AM	150		5	6	H2O AHEAD
6:09 AM	75		65	6	MIX 300 SKS. 60/40 P02 @ 14.8 PPG
6:20 AM					DROP PLUG
6:24 AM	0		0	4	START DISPLACEMENT
6:28 AM	150		15	2	SLOW RATE
6:30 AM	200		18.5	2	PLUG @ DESIRED DEPTH
					CIRC. THRU JOB
					CIRC. 10 BBL TO PIT
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY



PAGE 1 of 1	CUST NO 1650719	INVOICE DATE 04/30/2013
INVOICE NUMBER <b>1718 - 91179010</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 Phye #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	
40590913	20920		Net 30 days	05/30/2013	
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/29/2013 to 04/29/2013</i>					
0040590913					
171806938A Cement-New Well Casing/Pi 04/29/2013					
5 1/2" Longstring					
AA2 Cement 250.00 EA 12.75 3,187.36 T					
C-41P 47.00 EA 3.00 140.99 T					
Salt 1,238.00 EA 0.37 464.23 T					
C-44 235.00 EA 3.86 907.64 T					
FLA-322 188.00 EA 5.62 1,057.45 T					
Mud Flush 500.00 EA 0.64 322.48 T					
Super Flush II 500.00 EA 1.15 573.72 T					
Gilsonite 1,250.00 EA 0.50 628.09 T					
"Latch Down Plug & Baffle, 5 1/2" (Blue) 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 82.50 577.47					
"5 1/2" Basket (Blue)" 2.00 EA 217.49 434.98					
Claymax KCL Substitute 5.00 EA 26.25 131.24 T					
"Unit Mileage Chg (PU, cars one way)" 30.00 MI 3.19 95.62					
Heavy Equipment Mileage 60.00 MI 5.25 314.98					
"Proppant & Bulk Del. Chgs., per ton mil 353.00 EA 1.20 423.58					
Depth Charge; 4001'-5000' 1.00 EA 1,889.91 1,889.91					
Blending & Mixing Service Charge 250.00 BAG 1.05 262.49					
Plug Container Util. Chg. 1.00 EA 187.49 187.49					
"Service Supervisor, first 8 hrs on loc. 1.00 EA 131.24 131.24					
PLEASE REMIT TO:				SEND OTHER CORRESPONDENCE TO:	
BASIC ENERGY SERVICES, LP		BASIC ENERGY SERVICES, LP		SUB TOTAL 12,300.94	
PO BOX 841903		801 CHERRY ST, STE 2100		TAX 541.16	
DALLAS, TX 75284-1903		FORT WORTH, TX 76102		INVOICE TOTAL 12,842.10	

**ENTERED**  
 MAY 08 2013  
 912/BC







**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 ~~86539~~ A  
CONTINUATION  
OF

DATE TICKET NO. 1718-06938A

DATE OF JOB 04-29-13 DISTRICT PRATT KI				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 CH. H. OIL				LEASE PHVE 2 WELL NO.			
ADDRESS				COUNTY BARBER STATE KS			
CITY STATE				SERVICE CREW Sullivan, Romin, Gibson			
AUTHORIZED BY				JOB TYPE: CNW 5 1/2" Logging			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME
33708-20970						ARRIVED AT JOB	AM PM
37900						START OPERATION	AM PM
						FINISH OPERATION	AM PM
						RELEASED	AM PM
						MILES FROM STATION TO WELL	30

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	Drill rod	mi	30		127 50
E 101	Spuds 9/16" dia	mi	60		420 00
E 113	Bulk Delivery	TON	353		564 00
CE 205	Depth Change	EA	1		2570 00
CE 240	Blend-down Track	SK	250		350 00
CE 504	Plus Cont. 2 Hertz	SA	1		250 00
S003	Sealed Spacers	SA	1		175 00

SUB TOTAL *VC* 12,300 94

CHEMICAL / ACID DATA:			

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

*Thank you* TOTAL

SERVICE REPRESENTATIVE: <i>Robert [Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
---	---

FIELD SERVICE ORDER NO.



**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 ~~86339~~ A  
CONTINUATION  
of

DATE TICKET NO. 1718-016938A

DATE OF JOB 04-29-13 DISTRICT ALA H K1		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 CH. H. H. OIL		LEASE PHYE 2 WELL NO.								
ADDRESS		COUNTY BARBER STATE KS								
CITY STATE		SERVICE CREW Sullivan, Rommey, Gibson								
AUTHORIZED BY		JOB TYPE: CNW 5 1/2 Log String								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
33708-20970										
						ARRIVED AT JOB				
						START OPERATION				
						FINISH OPERATION				
						RELEASED				
						MILES FROM STATION TO WELL				30

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

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	pecks in	mi	30		127 50
E 101	spade 9 1/4 in	mi	60		420 00
E 113	Bulk Nelson	TOT	353		564 00
CE 205	Depth change	EA	1		2,570 00
CE 240	Blendment track	SK	250		350 00
CE 504	plug container ported	SA	1		250 00
S003	Sanded Separator	SA	1		175 00

SUB TOTAL WG 12,300 00

CHEMICAL / ACID DATA:			

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

[Signature]

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>CHIEFTAIN OIL</i>	Lease No. <i>20920</i>	Date <i>04-29-12</i>
Lease <i>Phye</i>	Well # <i>2</i>	
Field Order # <i>6438</i>	Station <i>PRATT KS</i>	Casing <i>5 1/2</i>
Type Job <i>CNW 5 1/2 Longstring</i>	Formation	Depth <i>4822'</i>
		County <i>BARBER</i>
		State <i>KS</i>
		Legal Description <i>25-31-12</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>								
Depth <i>4822'</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>114</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>2000</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4199'</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

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

Service Units	<i>37900</i>	<i>33708</i>	<i>20920</i>	<i>19960</i>	<i>21010</i>				
Driver Names	<i>Sullivan</i>	<i>Romize</i>	<i>GIBSON</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:20</i>	<i>Run</i>				<i>on loc soft, making</i>
					<i>Basket 2, 9 cont 4, 6, 11, 12, 13, 15, 16</i>
					<i>Run 114 str 5 1/2 15.5 csp</i>
					<i>circ 1/2 way 4 30 min</i>
<i>6:30</i>					<i>CASING ON BOTTOM</i>
<i>5:40</i>					<i>Hook Rig circ. csp.</i>
<i>6:50</i>	<i>150</i>		<i>12</i>	<i>3.5</i>	<i>24 mud flush</i>
			<i>3</i>		<i>SPACER</i>
			<i>12</i>		<i>51 Super Flush</i>
			<i>3</i>		<i>SPACER</i>
			<i>57</i>	<i>4.5</i>	<i>mix cmt 200 SK AA-2 cont @ 15. ppc</i>
					<i>cont mixed shut down wash pump, line</i>
					<i>Release Plug</i>
				<i>6</i>	<i>24 Disp w/ 2% KCL</i>
	<i>300</i>				<i>hit psi</i>
	<i>600</i>			<i>3.5</i>	<i>slow rate</i>
<i>7:45</i>	<i>1850</i>		<i>114</i>		<i>plug down</i>
			<i>7</i>		<i>plug R.H w/ sust</i>
					<i>1 JOB - complete</i>
					<i>Thank you</i>



## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124  
Kiowa, KS 67070

ATTN: Arden Ratzlaff

### **Phye #2**

#### **23-31s-12w Barber,KS**

Start Date: 2013.04.22 @ 04:51:27

End Date: 2013.04.22 @ 12:59:57

Job Ticket #: 50916                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.29 @ 14:44:17



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co

**23-31s-12w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50916

**DST#: 1**

ATTN: Arden Ratzlaff

Test Start: 2013.04.22 @ 04:51:27

## GENERAL INFORMATION:

Formation: **Elgin Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:42

Time Test Ended: 12:59:57

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

**Interval: 3415.00 ft (KB) To 3524.00 ft (KB) (TVD)**

Reference Elevations: 1584.00 ft (KB)

Total Depth: 3524.00 ft (KB) (TVD)

1576.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6798**

**Inside**

Press @ Run Depth: 575.45 psig @ 3416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.22

End Date:

2013.04.22

Last Calib.:

2013.04.22

Start Time: 04:51:28

End Time:

12:59:57

Time On Btm:

2013.04.22 @ 07:49:27

Time Off Btm:

2013.04.22 @ 10:17:42

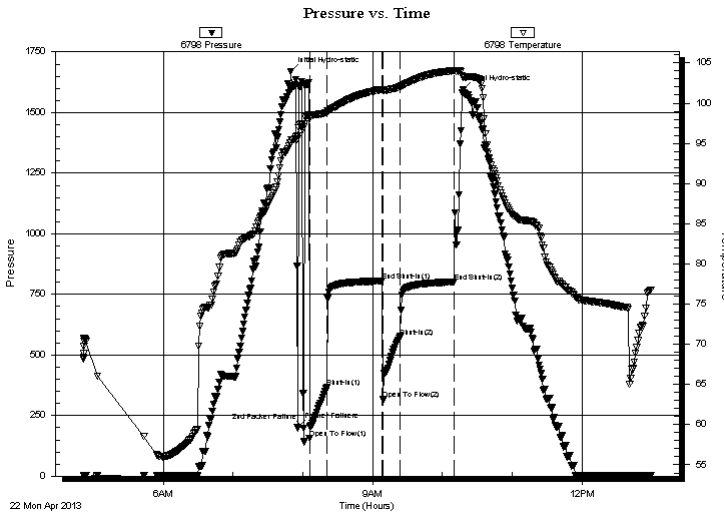
**TEST COMMENT:** IF: Packer Failure Twice, Held On Third Attempt, Strong Blow, BOB in 1 minutes

IS: GTS While Bleeding Off, 4 inch Blow Back

FF: Strong Blow, BOB & GTS Immediate, Caught Sample, Gas was TSTM

FS: Blow Back Built to 6 inches

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.17	95.08	Initial Hydro-static
6	199.68	95.91	Packer Failure
11	198.46	97.03	2nd Packer Failure
17	155.72	98.07	Open To Flow (1)
31	365.88	98.84	Shut-In(1)
79	804.59	101.71	End Shut-In(1)
80	316.21	101.57	Open To Flow (2)
95	575.45	102.07	Shut-In(2)
141	800.94	104.05	End Shut-In(2)
149	1592.75	103.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1388 GIP	0.00
1575.00	GSY Water 10%G 90%W	19.05
376.00	GWCM 10%G 40%W 50%M	5.27
65.00	GCM 15%G 85%M	0.91

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co

**23-31s-12w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50916

**DST#: 1**

ATTN: Arden Ratzlaff

Test Start: 2013.04.22 @ 04:51:27

## GENERAL INFORMATION:

Formation: **Elgin Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:05:42

Time Test Ended: 12:59:57

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

**Interval: 3415.00 ft (KB) To 3524.00 ft (KB) (TVD)**

Reference Elevations: 1584.00 ft (KB)

Total Depth: 3524.00 ft (KB) (TVD)

1576.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8367 Outside**

Press @ Run Depth: psig @ 3416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.22

End Date: 2013.04.22

Last Calib.: 2013.04.22

Start Time: 04:51:28

End Time: 12:59:57

Time On Btm:

Time Off Btm:

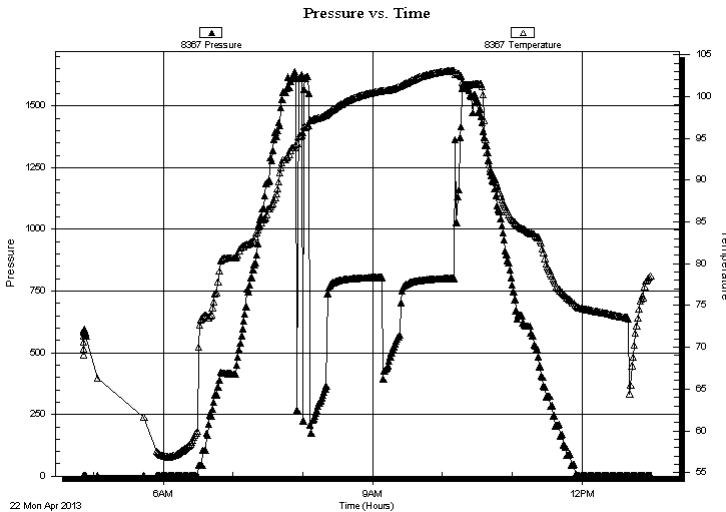
**TEST COMMENT:** IF: Packer Failure Twice, Held On Third Attempt, Strong Blow, BOB in 1 minutes

IS: GTS While Bleeding Off, 4 inch Blow Back

FF: Strong Blow, BOB & GTS Immediate, Caught Sample, Gas was TSTM

FS: Blow Back Built to 6 inches

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1388 GIP	0.00
1575.00	GSY Water 10%G 90%W	19.05
376.00	GWCM 10%G 40%W 50%M	5.27
65.00	GCM 15%G 85%M	0.91

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co

**23-31s-12w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50916

**DST#: 1**

ATTN: Arden Ratzlaff

Test Start: 2013.04.22 @ 04:51:27

## Tool Information

Drill Pipe:	Length: 3070.00 ft	Diameter: 3.80 inches	Volume: 43.06 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: 334.00 ft	Diameter: 2.25 inches	Volume: 1.64 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 44.70 bbl</u>	Tool Chased 7.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3415.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	109.00 ft			
Tool Length:	129.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Ran 2 shale Packers

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3400.00	
Hydraulic tool	5.00			3405.00	
Packer - Shale	5.00			3410.00	
Packer	5.00			3415.00	20.00 Bottom Of Top Packer
Stubb	1.00			3416.00	
Recorder	0.00	6798	Inside	3416.00	
Recorder	0.00	8367	Outside	3416.00	
Perforations	4.00			3420.00	
Change Over Sub	1.00			3421.00	
Drill Pipe	94.00			3515.00	
Change Over Sub	1.00			3516.00	
Perforations	5.00			3521.00	
Bullnose	3.00			3524.00	109.00 Anchor Tool

**Total Tool Length: 129.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co

**23-31s-12w Barber,KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50916

**DST#: 1**

ATTN: Arden Ratzlaff

Test Start: 2013.04.22 @ 04:51:27

## 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: 150000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.48 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1388 GIP	0.000
1575.00	GSY Water 10%G 90%W	19.051
376.00	GWCM 10%G 40%W 50%M	5.274
65.00	GCM 15%G 85%M	0.912

Total Length: 2016.00 ft      Total Volume: 25.237 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

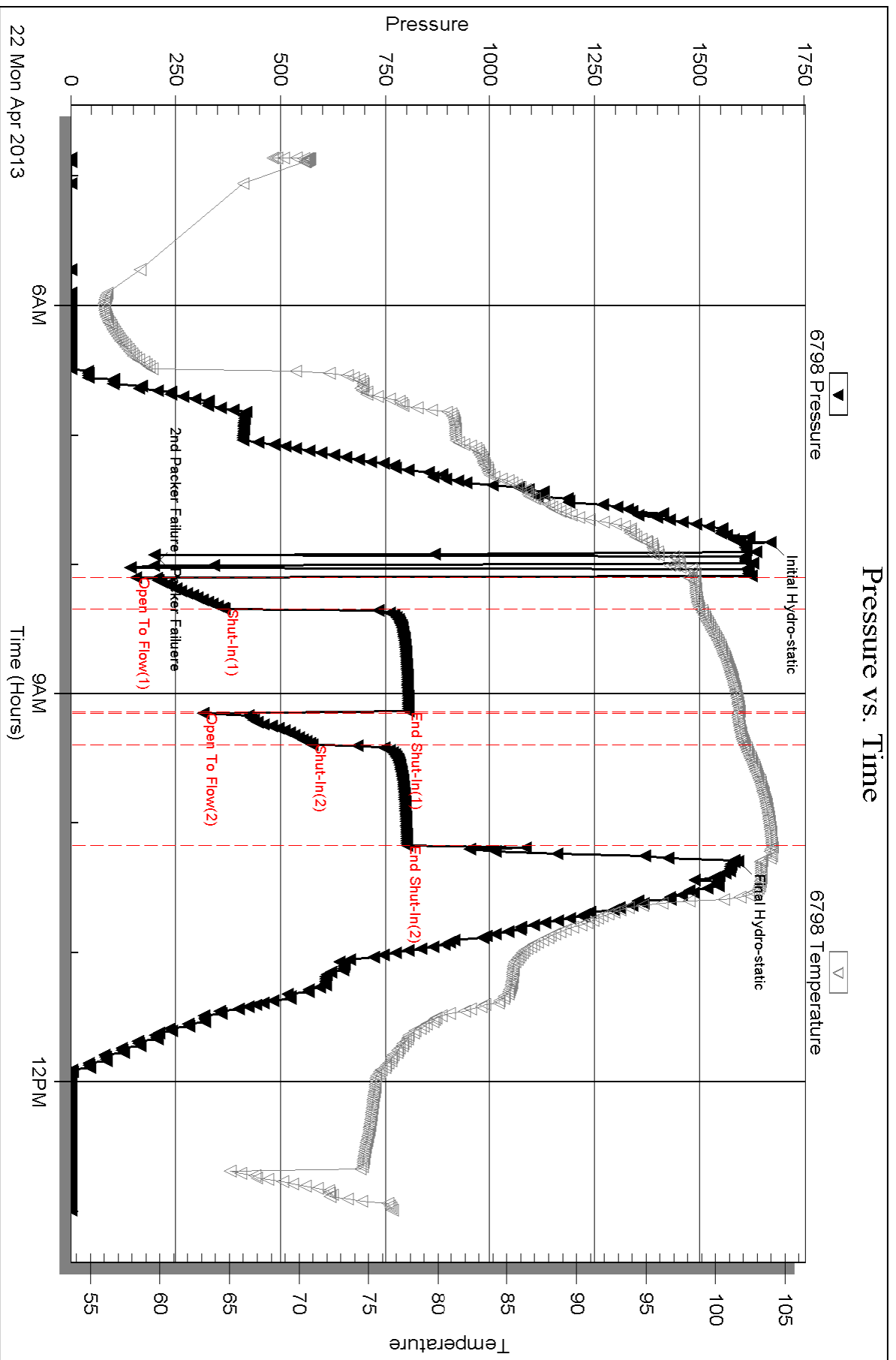
Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .07 @ 60 degrees



# Pressure vs. Time

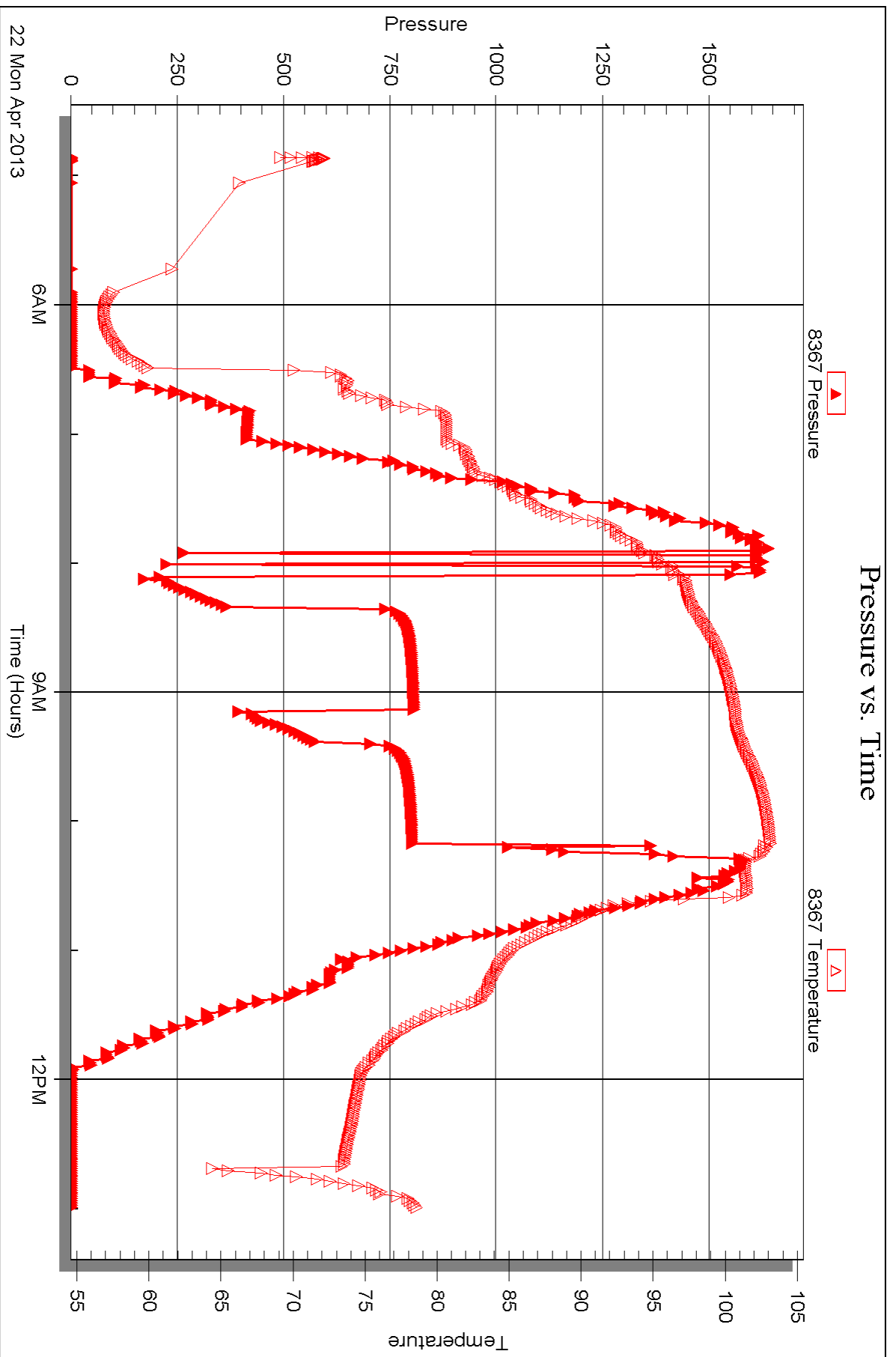


Serial #: 8367

Outside Chieftain Oil Co

Fhye #2

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124  
Kiowa, KS 67070

ATTN: Arden Ratzlaff

### **Phye #2**

#### **23-31s-12w Barber,KS**

Start Date: 2013.04.25 @ 12:02:19

End Date: 2013.04.25 @ 20:04:19

Job Ticket #: 50917                      DST #: 2

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

Printed: 2013.04.29 @ 14:43:34



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co

**23-31s-12w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50917

**DST#: 2**

ATTN: Arden Ratzlaff

Test Start: 2013.04.25 @ 12:02:19

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:08:49

Time Test Ended: 20:04:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 4303.00 ft (KB) To 4319.00 ft (KB) (TVD)**

Reference Elevations: 1584.00 ft (KB)

Total Depth: 4319.00 ft (KB) (TVD)

1576.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6798**

**Inside**

Press @ Run Depth: 42.93 psig @ 4304.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.25

End Date:

2013.04.25

Last Calib.:

2013.04.25

Start Time:

12:02:20

End Time:

20:04:19

Time On Btm:

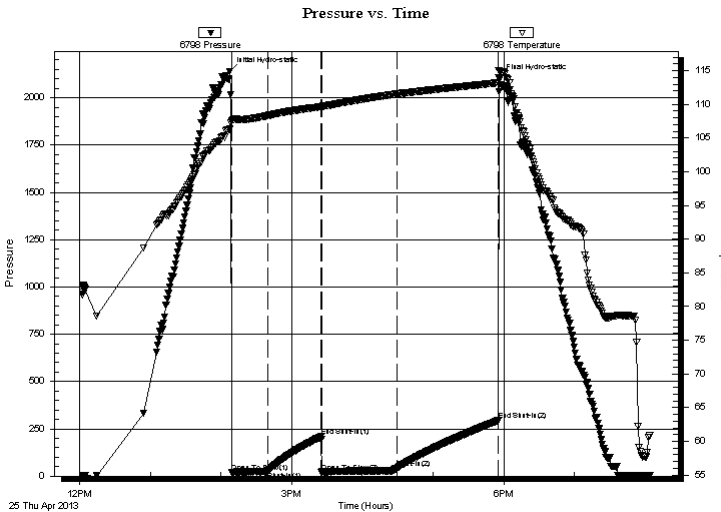
2013.04.25 @ 14:07:04

Time Off Btm:

2013.04.25 @ 17:55:49

**TEST COMMENT:** IF: Strong Blow , BOB in 45 seconds  
IS: No Blow Back  
FF: Strong Blow , BOB in 4 minutes  
FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.27	106.32	Initial Hydro-static
2	19.53	107.47	Open To Flow (1)
33	26.98	108.33	Shut-In(1)
78	208.58	109.65	End Shut-In(1)
79	18.15	109.56	Open To Flow (2)
143	42.93	111.54	Shut-In(2)
229	293.35	113.19	End Shut-In(2)
229	2104.10	115.03	Final Hydro-static

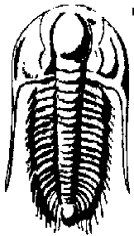
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	620 GIP	0.00
10.00	SGCM 2%G 98%M	0.05

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Chieftain Oil Co  
 PO Box 124  
 Kiowa, KS 67070  
 ATTN: Arden Ratzlaff

**23-31s-12w Barber, KS**  
**Phye #2**  
 Job Ticket: 50917 **DST#: 2**  
 Test Start: 2013.04.25 @ 12:02:19

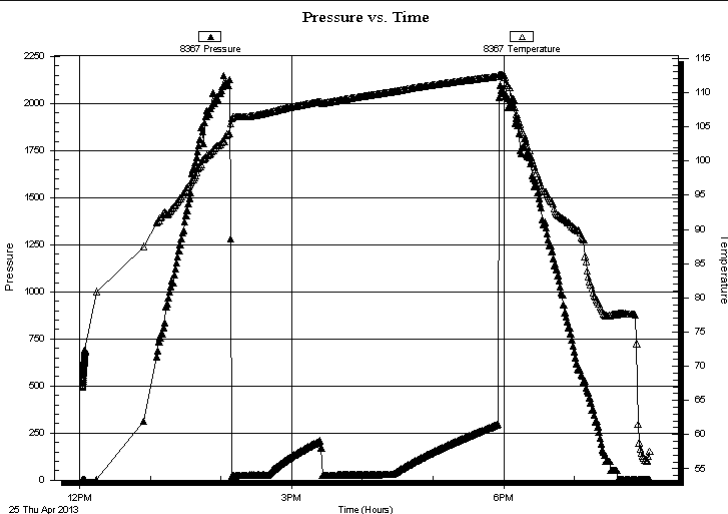
**GENERAL INFORMATION:**

Formation:	<b>Mississippi</b>	Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:	ft (KB)	
Time Tool Opened:	14:08:49	Tester:	Leal Cason
Time Test Ended:	20:04:19	Unit No:	45
<b>Interval:</b>	<b>4303.00 ft (KB) To 4319.00 ft (KB) (TVD)</b>	Reference Elevations:	1584.00 ft (KB)
Total Depth:	4319.00 ft (KB) (TVD)		1576.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Good
		KB to GR/CF:	8.00 ft

<b>Serial #: 8367</b>	<b>Outside</b>		
Press @ Run Depth:	psig @ 4304.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2013.04.25	End Date:	2013.04.25
Start Time:	12:02:20	End Time:	20:04:19
		Last Calib.:	2013.04.25
		Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** IF: Strong Blow , BOB in 45 seconds  
 IS! No Blow Back  
 FF: Strong Blow , BOB in 4 minutes  
 FS! No Blow Back

**PRESSURE SUMMARY**



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

**Recovery**

Length (ft)	Description	Volume (bbl)
0.00	620 GIP	0.00
10.00	SGCM 2%G 98%M	0.05

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co

**23-31s-12w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50917

**DST#: 2**

ATTN: Arden Ratzlaff

Test Start: 2013.04.25 @ 12:02:19

## Tool Information

Drill Pipe:	Length: 4139.00 ft	Diameter: 3.80 inches	Volume: 58.06 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: 153.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 58.81 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4303.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 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
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4288.00	
Hydraulic tool	5.00			4293.00	
Packer	5.00			4298.00	20.00 Bottom Of Top Packer
Packer	5.00			4303.00	
Stubb	1.00			4304.00	
Recorder	0.00	6798	Inside	4304.00	
Recorder	0.00	8367	Outside	4304.00	
Perforations	12.00			4316.00	
Bullnose	3.00			4319.00	16.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Chieftain Oil Co

**23-31s-12w Barber,KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50917

**DST#: 2**

ATTN: Arden Ratzlaff

Test Start: 2013.04.25 @ 12:02:19

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.08 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 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	620 GIP	0.000
10.00	SGCM 2%G 98%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

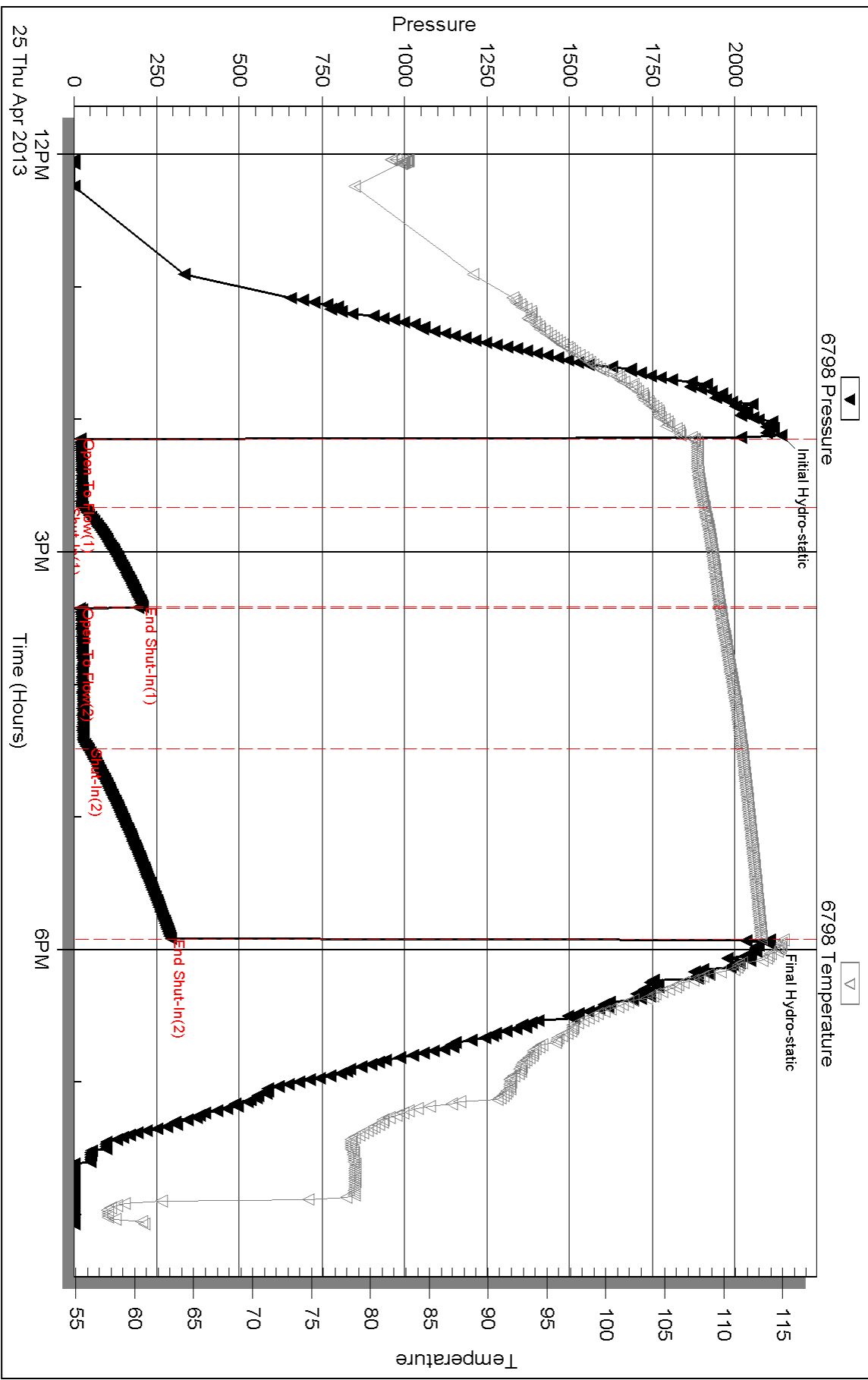
Inside

Chieftain Oil Co

Hy# 2

DST Test Number: 2

### Pressure vs. Time



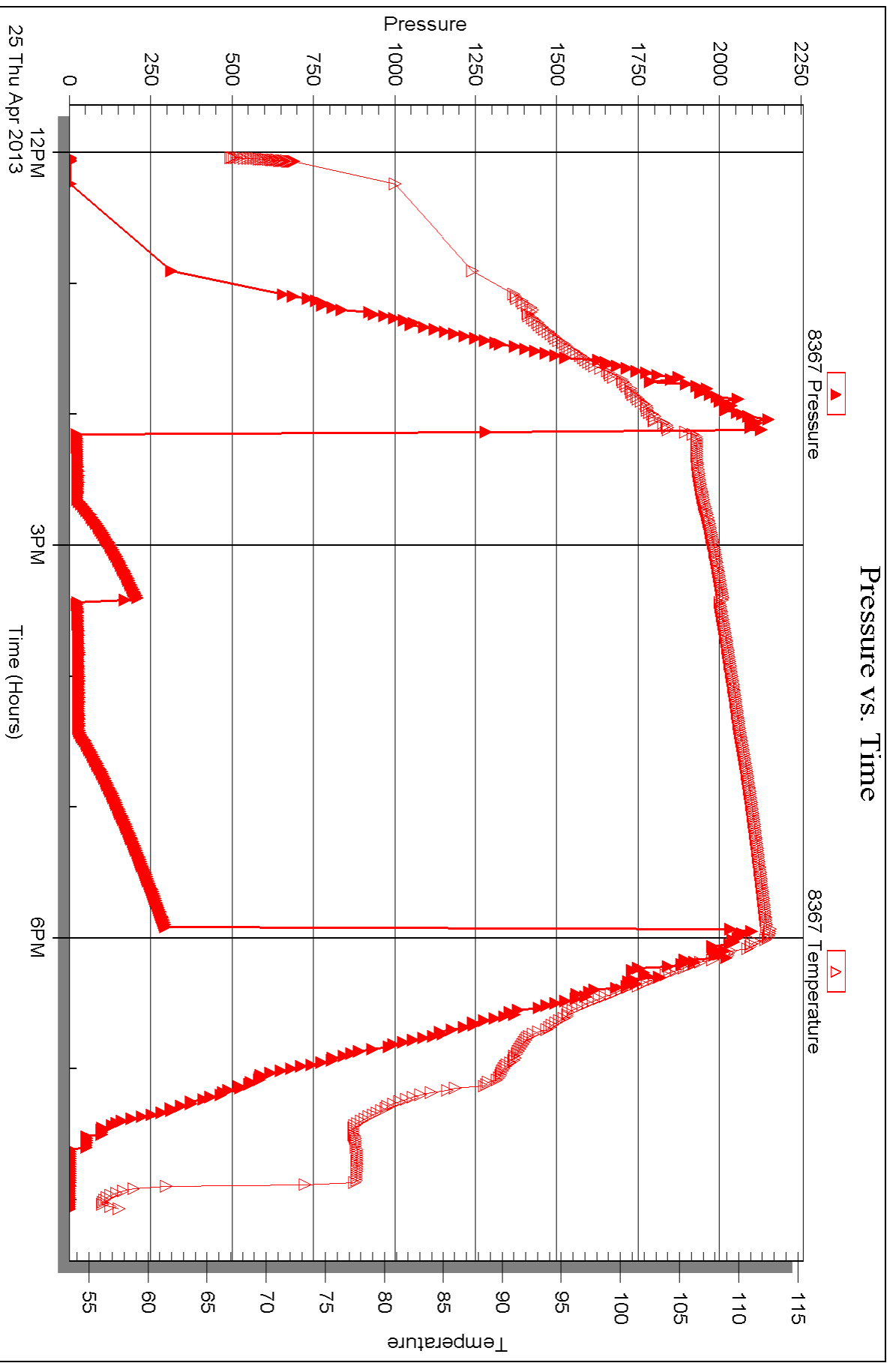


Serial #: 8367

Outside Chieftain Oil Co

Flye #2

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124  
Kiowa, KS 67070

ATTN: Arden Ratzlaff

### **Phye #2**

#### **23-31s-12w Barber,KS**

Start Date: 2013.04.26 @ 05:05:33

End Date: 2013.04.26 @ 14:10:33

Job Ticket #: 50482                      DST #: 3

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

Printed: 2013.04.29 @ 14:42:53



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co

**23-31s-12w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50482

**DST#: 3**

ATTN: Arden Ratzlaff

Test Start: 2013.04.26 @ 05:05:33

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:29:18

Time Test Ended: 14:10:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

**Interval: 4319.00 ft (KB) To 4339.00 ft (KB) (TVD)**

Reference Elevations: 1584.00 ft (KB)

Total Depth: 4339.00 ft (KB) (TVD)

1576.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8790**

**Inside**

Press @ Run Depth: 20.81 psig @ 4320.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.26

End Date:

2013.04.26

Last Calib.:

2013.04.26

Start Time: 05:05:38

End Time:

14:10:33

Time On Btm:

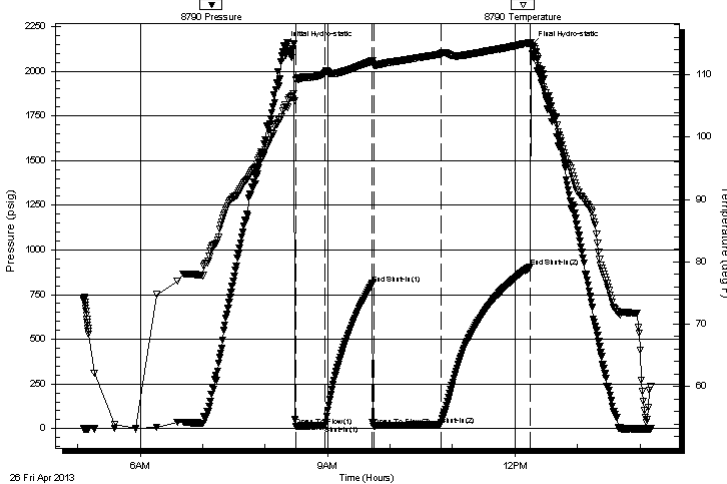
2013.04.26 @ 08:18:18

Time Off Btm:

2013.04.26 @ 12:15:18

**TEST COMMENT:** IF: Strong blow . BOB @ 6 min. No GTS.  
IS: No blow  
FF: Strong blow . BOB immed. No GTS.  
FS: No blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.00	104.75	Initial Hydro-static
11	12.01	109.17	Open To Flow (1)
40	16.30	110.38	Shut-In(1)
85	810.86	112.23	End Shut-In(1)
86	12.91	111.54	Open To Flow (2)
151	20.81	113.33	Shut-In(2)
237	903.47	115.15	End Shut-In(2)
237	2144.37	115.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1465' GIP	0.00
30.00	SLI OCM 1%oil, 99%mud	0.15
0.00	Free oil in hyd. tool	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co

**23-31s-12w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50482

**DST#: 3**

ATTN: Arden Ratzlaff

Test Start: 2013.04.26 @ 05:05:33

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:29:18

Time Test Ended: 14:10:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

**Interval: 4319.00 ft (KB) To 4339.00 ft (KB) (TVD)**

Reference Elevations: 1584.00 ft (KB)

Total Depth: 4339.00 ft (KB) (TVD)

1576.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8792 Outside**

Press @ Run Depth: psig @ 4320.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.26

End Date:

2013.04.26

Last Calib.:

2013.04.26

Start Time: 04:57:40

End Time:

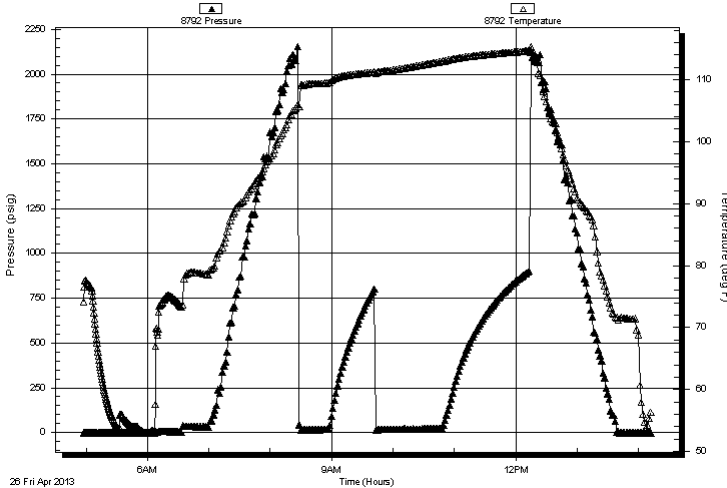
14:12:35

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Strong blow . BOB @ 6 min. No GTS.  
IS: No blow  
FF: Strong blow . BOB immed. No GTS.  
FS: No blow

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1465' GIP	0.00
30.00	SLI OCM 1%oil, 99%mud	0.15
0.00	Free oil in hyd. tool	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co

**23-31s-12w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50482

**DST#: 3**

ATTN: Arden Ratzlaff

Test Start: 2013.04.26 @ 05:05:33

## Tool Information

Drill Pipe:	Length: 4170.00 ft	Diameter: 3.80 inches	Volume: 58.49 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: 154.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 59.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4319.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4304.00	
Hydraulic tool	5.00			4309.00	
Packer	5.00			4314.00	20.00 Bottom Of Top Packer
Packer	5.00			4319.00	
Stubb	1.00			4320.00	
Recorder	0.00	8790	Inside	4320.00	
Recorder	0.00	8792	Outside	4320.00	
Perforations	16.00			4336.00	
Bullnose	3.00			4339.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>40.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co

**23-31s-12w Barber,KS**

PO Box 124  
Kiowa, KS 67070

**Phye #2**

Job Ticket: 50482

**DST#: 3**

ATTN: Arden Ratzlaff

Test Start: 2013.04.26 @ 05:05:33

## 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:

6300 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1465' GIP	0.000
30.00	SLI OCM 1%oil, 99%mud	0.148
0.00	Free oil in hyd. tool	0.000

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

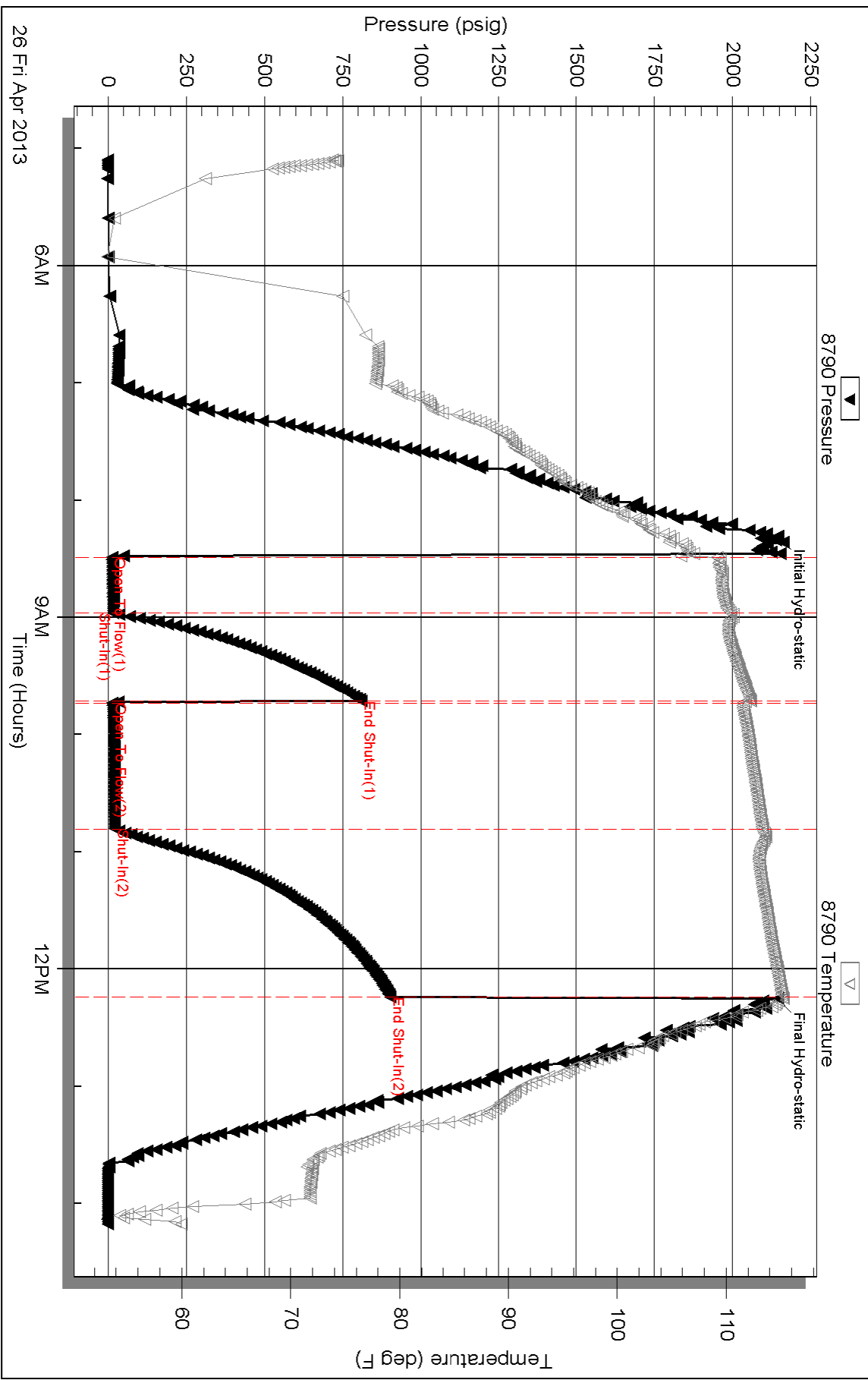
Inside

Chieftain Oil Co

Phye #2

DST Test Number: 3

### Pressure vs. Time

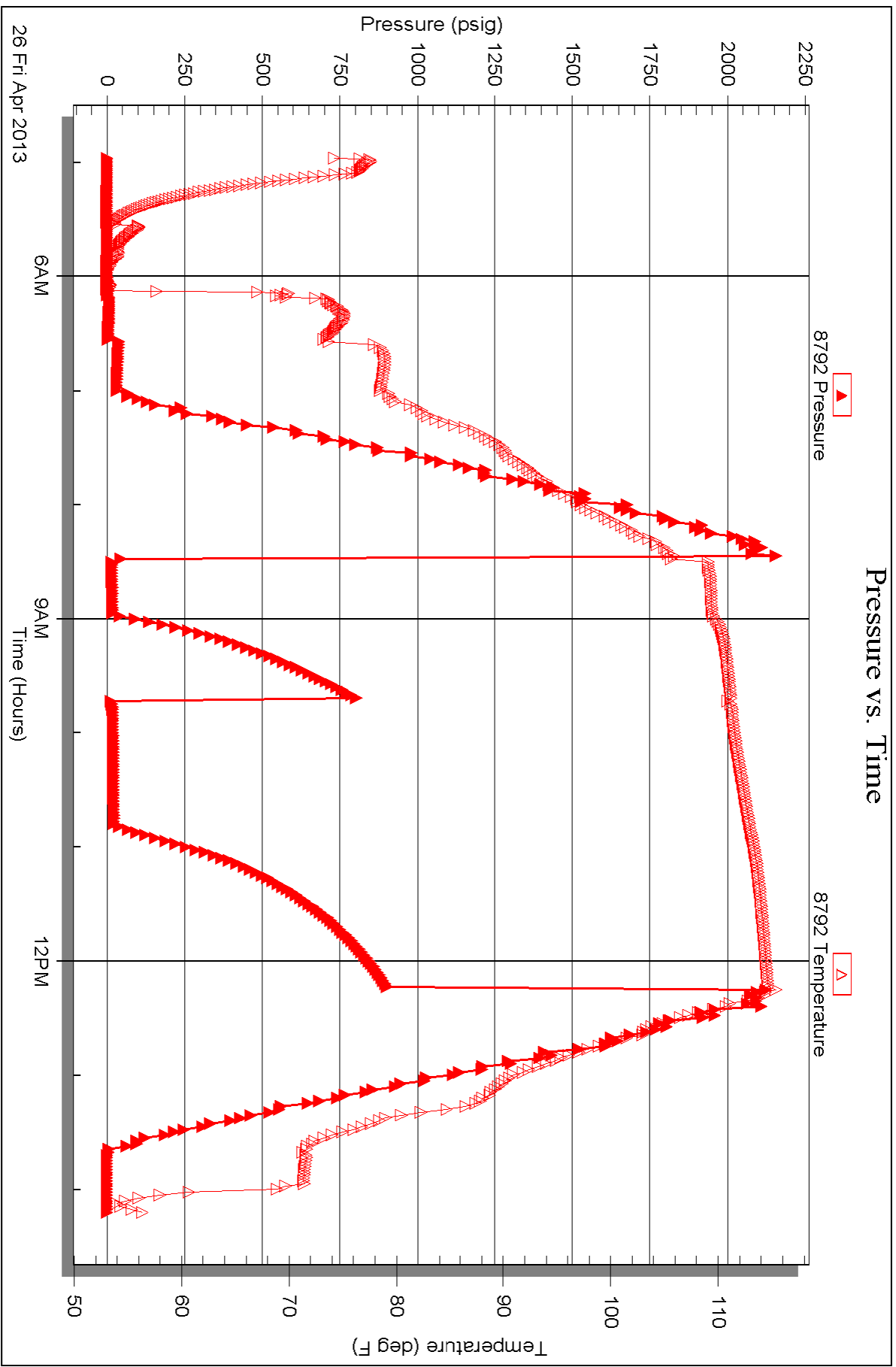


Serial #: 8792

Outside Chieftain Oil Co

Flye #2

DST Test Number: 3







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50916

Well Name & No. Phye 2 Test No. 1 Date 04/22/13  
 Company Chieftain Oil Co Elevation ~~1584~~ 1576 GL  
 Address PO Box 124 Kiowa, KS 67070  
 Co. Rep / Geo. Arden Ratzlaff Rig Fossil 2  
 Location: Sec. 23 Twp. 31S Rge. 12W Co. ~~Barber~~ Barber State KS

Interval Tested 3415 - 3524 Zone Tested Elgin Sand  
 Anchor Length 109 Drill Pipe Run 3070 Mud Wt. 9.0  
 Top Packer Depth 3410 Drill Collars Run 334 Vis 50  
 Bottom Packer Depth 3415 Wt. Pipe Run 0 WL 8.5  
 Total Depth 3524 Chlorides 4300 ppm System LCM

Blow Description IFi Packer Failure twice, held on 3rd attempt, strong blow, BOB in 1 minute  
TSI: GTS while bleeding off, 3 inch Blow Back  
FFi: strong blow, BOB + GTS immediate, caught gas sample, gas was TSTM  
FSI: Blow Back Built to 6 inches

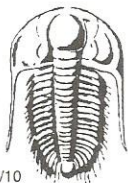
Rec	Feet of	%gas	%oil	%water	%mud
<u>1388</u>	<u>GIP</u>				
<u>65</u>	<u>GCM</u>	<u>15</u>			<u>85</u>
<u>376</u>	<u>GWCM</u>	<u>10</u>		<u>40</u>	<u>50</u>
<u>1575</u>	<u>G54 water</u>	<u>10</u>		<u>90</u>	

Rec Total 2016 BHT 103° Gravity NIC API RW .07 @ 60° F Chlorides 150,000 ppm

(A) Initial Hydrostatic <u>1670</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>04:00</u>
(B) First Initial Flow <u>156</u>	<input type="checkbox"/> Jars	T-Started <u>04:51</u>
(C) First Final Flow <u>366</u>	<input type="checkbox"/> Safety Joint	T-Open <u>08:05</u>
(D) Initial Shut-In <u>805</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>10:10</u>
(E) Second Initial Flow <u>316</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:59</u>
(F) Second Final Flow <u>575</u>	<input checked="" type="checkbox"/> Mileage <u>70</u> 108.50	Comments
(G) Final Shut-In <u>801</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1593</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>2</u> 500	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>15</u>	<input type="checkbox"/> Day Standby	Total <u>1758.50</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1758.50</u>	

Approved By Arden Ratzlaff 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50917

Well Name & No. Phye 2 Test No. 2 Date 04/25/13  
 Company Chieftain Oil Co Elevation 1584 KB 1576 GL  
 Address PO Box 124 Kiowa, KS 67070  
 Co. Rep / Geo. Arden Ratzlaff Rig Fossil 2  
 Location: Sec. 23 Twp. 31S Rge. 12W Co. Barber State KS

Interval Tested 4303 - 4319 Zone Tested Mississippi  
 Anchor Length 16 Drill Pipe Run 4139 Mud Wt. 9.4  
 Top Packer Depth 4298 Drill Collars Run 153 Vis 54  
 Bottom Packer Depth 4303 Wt. Pipe Run 0 WL 8.1  
 Total Depth 4319 Chlorides 5800 ppm System LCM

Blow Description IF: Strong Blow, BOB in 45 seconds  
ISF: NO Blow Back  
FF: Strong Blow, BOB in 4 minutes  
FSF: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>620</u>	<u>GIP</u>				
<u>10</u>	<u>SGCM</u>	<u>2</u>		<u>98</u>	

Rec Total 10 BHT 115 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic <u>2140</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:30</u>
(B) First Initial Flow <u>19</u>	<input type="checkbox"/> Jars	T-Started <u>12:02</u>
(C) First Final Flow <u>27</u>	<input type="checkbox"/> Safety Joint	T-Open <u>14:08</u>
(D) Initial Shut-In <u>209</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>17:55</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:04</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>70</u> 108.50	Comments
(G) Final Shut-In <u>293</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2104</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Copies
Final Shut-In <u>90</u>	Sub Total <u>1550</u>
	Total <u>2908.50</u>
	MP/DST Disc't
Sub Total <u>1358.50</u>	

Approved By Arden Ratzlaff 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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50482

4/10

Well Name & No. Phye #2 Test No. 3 Date 4-26-13  
 Company Chiefstain Oil Co. Elevation 1584 KB 1576 GL  
 Address P.O. Box 124 Kiowa, KS 67070  
 Co. Rep / Geo. Arden Ratzloff Rig Fossil #2  
 Location: Sec. 23 Twp. 31s. Rge. 12w. Co. Barber State KS

Interval Tested 4319 - 4339 Zone Tested Miss.  
 Anchor Length 20' Drill Pipe Run 4170 Mud Wt. 9.3  
 Top Packer Depth 4314 Drill Collars Run 154 Vis 58  
 Bottom Packer Depth 4319 Wt. Pipe Run Ø WL 7.0  
 Total Depth 4339 Chlorides 6300 ppm System LCM 3#

Blow Description IF: Strong blow. BoB @ 6 min. No GTS.  
ISI: No blow  
FF: Strong blow. BoB immed. No GTS.  
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1465</u>	<u>GIP</u>	<u>100</u>			
<u>30</u>	<u>SLI ocm</u>		<u>1</u>		<u>99</u>
	<u>(Free oil in hyd. tool)</u>				

Rec Total 1495 BHT 115 Gravity N/L API RW N/L @ N/L °F Chlorides 6300 ppm

(A) Initial Hydrostatic	<u>2145</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>0445</u>
(B) First Initial Flow	<u>12</u>	<input type="checkbox"/> Jars		T-Started	<u>0506</u>
(C) First Final Flow	<u>16</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>0829</u>
(D) Initial Shut-In	<u>811</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1217</u>
(E) Second Initial Flow	<u>13</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>1411</u>
(F) Second Final Flow	<u>21</u>	<input checked="" type="checkbox"/> Mileage	<u>70 + 70</u> <sup>Test</sup> <sup>Pickup Tools</sup> <sub>217</sub>	Comments	<u>loaded tools 8:30 on 4/28</u>
(G) Final Shut-In	<u>903</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2144</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>800</u>
Final Shut-In	<u>90</u>	<input checked="" type="checkbox"/> Day Standby	<u>1 day</u> 18.25h	Total	<u>2267</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1467</u>		

Approved By Arden Ratzloff Our Representative Ryan Reynolds  
 Trilobite Testing Inc. shall not be liable for damaged or 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.

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

June 14, 2013

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

Re: ACO1  
API 15-007-23954-00-00  
Phye 2  
SW/4 Sec.25-31S-12W  
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