



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1154377
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
-----------------------------------	-----------------	---

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: _____



1154377

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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	Molz 18
Doc ID	1154377

All Electric Logs Run

Geologist Log
Dual Induction Log
Compensated Density/Neutron Log
Micro Log
Sonic Cement Bond Log

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Molz 18
Doc ID	1154377

Tops

Name	Top	Datum
Heebner	3786	-2407
Lansing-KC	4338	-2959
Cherokee	4707	-3328
Mississippian	4762	-3383
Chattanooga	5099	-3720
Viola	5184	-3805
Simpson	5276	-3897
Simpson Sdst.	5291	-3912
Arbuckle	5498	-4119
Total Depth	5537	-4158

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

August 06, 2013

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

Re: ACO1
API 15-007-24036-00-00
Molz 18
SE/4 Sec.02-35S-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



PAGE	CUST NO	INVOICE DATE
1 of 1	1000719	07/12/2013
INVOICE NUMBER		
1718 - 91236504		

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 Molz 18
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

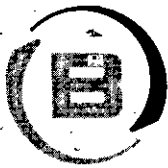
JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40616487	19843		Net - 30 days	08/11/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 07/10/2013 to 07/10/2013				
0040616487				
171808330A Cement-New Well Casing/Pi 07/10/2013				
Cement 5 1/2" Longstring				
AA2 Cement	275.00	EA	11.90	3,272.34 T
C-41P	52.00	EA	2.80	145.59 T
Salt	1,364.00	EA	0.35	477.38 T
C-44	259.00	EA	3.60	933.65 T
FLA-322	208.00	EA	5.25	1,091.95 T
Mud Flush	500.00	EA	0.60	300.99 T
Super Flush II	500.00	EA	1.07	535.48 T
Gilsonite	1,375.00	EA	0.47	644.85 T
Claymax KCL Substitute	5.00	EA	24.50	122.49 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	279.99	279.99
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	251.99	251.99
"Turbolizer, 5 1/2" (Blue)"	7.00	EA	77.00	538.98
"5 1/2" Basket (Blue)"	2.00	EA	202.99	405.98
"Unit Mileage Chg (PU, cars one way)"	30.00	MI	2.98	89.25
Heavy Equipment Mileage	60.00	MI	4.90	293.99
"Proppant & Bulk Del. Chgs., per ton mil	389.00	EA	1.12	435.66
Depth Charge; 5001-6000'	1.00	EA	2,015.91	2,015.91
Blending & Mixing Service Charge	275.00	BAG	0.98	269.49
Plug Container Util. Chg.	1.00	EA	174.99	174.99
"Service Supervisor, first 8 hrs on loc.	1.00	EA	122.49	122.49

ENTERED
 JUL 12 2013
 9304BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,403.44
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	538.02
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	12,941.46
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		





BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 08330 A

DATE _____ TICKET NO. _____

DATE OF JOB 7-10-13 DISTRICT Pratt		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 Chieftain Oil		LEASE mol 2 18 WELL NO.							
ADDRESS		COUNTY Barber STATE Ks							
CITY STATE		SERVICE CREW ED JESSE JOE							
AUTHORIZED BY		JOB TYPE: cnw 5 1/2 LS							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19889-19843	.50 min						7-9-13	PM	12:35
19960-21010	50 min						7-9-13	AM	5:45
28443							7-10-13	AM	12:40
							7-10-13	AM	1:30
							7-10-13	AM	2:30
						MILES FROM STATION TO WELL	30		

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: *X [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	SK	225		3,825 00
CP 105	AA2 cement	S/S	50		850 00
CC 105	C-41P Defoamer	lb	52		2 08 00
CC 111	SALT	lb	1,364		682 06
CC 115	C-44	lb	259		1,333 85
CC 129	Low Fluid Loss	lb	208		1,560 00
CC 2075	Gilsonite	lb	1,375		921 25
CF 607	Latch Down Plug & Baffle	eg	1		400 00
CF 1251	AUTO FILL shoe	eg	1		360 00
CF 1651	Turbolizer	eg	7		770 06
CF 1901	5/2 Basket	eg	2		580 00
C 704	Claymax	gal	5		175 00
CL 151	mid FLush	gal	500		430 00
CL 155	Super FLush	gal	500		765 00
E 100	Pickup Mileage	mi	30		127 50
E 101	Heavy Mileage	mi	60		420 00
E 113	Bulk Delivery	TM	389		621 60
CE 206	Depth charge 5001' - 6000'	4hr	1		2,880 00
CE 240	Mixing charge	SK	275		385 00
CE 504	Plug container	JOB	1		250 00
S 003	SUPERVISOR	eg	1		175 00
				SUB TOTAL	12,403 44
SERVICE & EQUIPMENT				%TAX ON \$	
MATERIALS				%TAX ON \$	
TOTAL					

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

BASIC

energy services, L.P.

TREATMENT REPORT

Customer Chieftain OIL	Lease No.	Date 7-10-13
Lease MOLZ	Well # 18	
Field Order # 8830	Station Pratt	Casing 5 1/2
		Depth 5542
Type Job 5 1/2 LS CNW	Formation	County Barber
		State KS
		Legal Description 2-35-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2				Pre Pad	Max		5 Min.	
Depth 5542	Depth	From	To	Pad	Min		10 Min.	
Volume 131	Volume	From	To	Frac	Avg		15 Min.	
Max Press 2000	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth 5521	Packer Depth	From	To					

Customer Representative			Station Manager			Treater		
Service Units	19889	19843	19960	21010	28443			
Driver Names	ED	Dale Jesse		JOE				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1745					ONLOC / safety meeting
					Run 132 JTS 15.5" CSG
					Turbo. on 5-9-11-16-18-19-20
					Back. on TOP of 2-13
2200					circ 1/2 way in
2340					HOOK up to Rig to Break circ
1240					start JOB
	150		12	6	mud flush
	5		5	7	H2O spacer
	12		12	6	super flush
	5		5	6	H2O space
	150		57	6	mix 225 SK AA2 cement at 15"
1	0		0	0	shut down / clear Pump & Lines
103	0		0	0	Release Plug
	100		0	6.25	start H2O DISP with 2% KCL
	250		96	6	Lift PSI
	300		120	4.5	slow Rate
1:30	1800		131	6	Plug Down
					JOB COMPLETE
					Thank you
					JOE



PAGE 1 of 1	CUST NO 1000719	INVOICE DATE 07/02/2013
INVOICE NUMBER 1718 - 91228657		

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 Molz 18
 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
40613147	19905		Net - 30 days	08/01/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 06/27/2013 to 06/27/2013</i>				
0040613147				
171808662A Cement-New Well Casing/Pi 06/27/2013				
Cement Surface				
60/40 POZ	350.00	EA	9.00	3,150.14 T
Celloflake	88.00	EA	2.78	244.21 T
Calcium Chloride	903.00	EA	0.79	711.14 T
Sugar	50.00	EA	1.50	75.00 T
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	3.19	143.44
Heavy Equipment Mileage	90.00	MI	5.25	472.52
"Proppant & Bulk Del. Chgs., per ton mil	677.00	EA	1.20	812.44
Depth Charge; 0-500'	1.00	EA	750.03	750.03
Blending & Mixing Service Charge	350.00	BAG	1.05	367.52
"Service Supervisor, first 8 hrs on loc.	1.00	EA	131.26	131.26

ENTERED
JUL 08 2013
9/2/BC

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL	6,857.70 298.91 7,156.61
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 08662 A

DATE _____ TICKET NO. _____

DATE OF JOB 6-27-13 - DISTRICT PRATT		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 Chertain Oil Co.		LEASE M012		WELL NO. 18		
ADDRESS		COUNTY BARBOR		STATE KS		
CITY STATE		SERVICE CREW MATTAL/PISSON/PHYR				
AUTHORIZED BY		JOB TYPE: CAN S.P.				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 6-27-13 DATE AM TIME 9:30
37216	.5					ARRIVED AT JOB AM 12:15
77686/19901	.5					START OPERATION AM 4:15
70929/19918	.5					FINISH OPERATION AM 4:45
						RELEASED AM 5:30
						MILES FROM STATION TO WELL 45

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: X *Edward Ke...*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 P02	SKI	350		4200 00
CC102	CELLULOSE	LN	88		325 60
CC109	CALCIUM CHLORIDE	LN	903		948 15
CC131	SUGAR	LB	50		100 00
E100	P.U. mileage	MI	45		191 25
E101	Heavy eq. mileage	MI	90		630 00
E113	Propane + Bulk Delivery mileage	MI	677		1083 60
CE 200	Depth charge 0-500'	HRS	1		1000 00
CE 240	Blend + mix service charge	SKI	350		490 00
S003	Service supervisor first 8 hrs	EA	1		175 00
					SUB TOTAL 46 6857 70

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE MIKE MATTAL	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X <i>Edward Ke...</i></u>
---	--

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer	Chertain Oil Co	Lease No.		Date	6-27-13						
Lease	M012	Well #	18								
Field Order #	08662	Station	PRATT	Casing	13 3/8	Depth	312	County	Baird	State	KS
Type Job	CNW S.P.	Formation		Legal Description	2-35-12						

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	13 3/8"	Tubing Size		Arctel	350 SWS 60/40 POZ	RATE	PRESS	ISIP
Depth	312	Depth		Pre Pad	14.8 mg	Max	3% cc	1/4 # CF
Volume	47.92	Volume		Pad		Min		10 Min.
Max Press	300	Max Press		Frac		Avg		15 Min.
Well Connection	S+V	Annulus Vol.				HHP Used		Annulus Pressure
Plug Depth	312	Packer Depth		Flush	44.5	Gas Volume		Total Load

Customer Representative	JIN	Station Manager	GOINLEY	Treater	MATTAI
-------------------------	-----	-----------------	---------	---------	--------

Service Units	37216	77686	19905	70959	19918
Driver Names	MATTAI	Pirison		PHYE	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:15 PM					TRUCKS ON LOCATION / GARY Meeting
					RUN 13 3/8 480 CSNS
					CSNS ON BOTTOM
					HOOK UP TO CHAINS, BREAK CIRC. W. RIG
4:10	200			5	PUMP 5 BBL'S H2O
4:12	150		5	5	MIX 350 SWS 60/40 POZ.
4:30	150		80	5	DISPLACE W 44.5 BBL'S H2O
4:40				3	SLOW RATE
4:45	150		124.5		SHUT IN WELL
					12 BBL'S TO PIT
					CIRC. TRIP JOB
					JOB COMPLETE
					THANKS
					MIC MATTAI



DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Molz #18

2-35s-12w Barber,KS

Start Date: 2013.07.03 @ 09:26:15

End Date: 2013.07.03 @ 13:48:00

Job Ticket #: 50995 DST #: 1

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

Printed: 2013.07.09 @ 17:31:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-12w Barber, KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50995

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2013.07.03 @ 09:26:15

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:32:00

Time Test Ended: 13:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 4763.00 ft (KB) To 4800.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6798 Inside

Press @ Run Depth: psig @ 4764.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.03

End Date:

2013.07.03

Last Calib.:

2013.07.03

Start Time:

09:26:16

End Time:

13:48:00

Time On Btm:

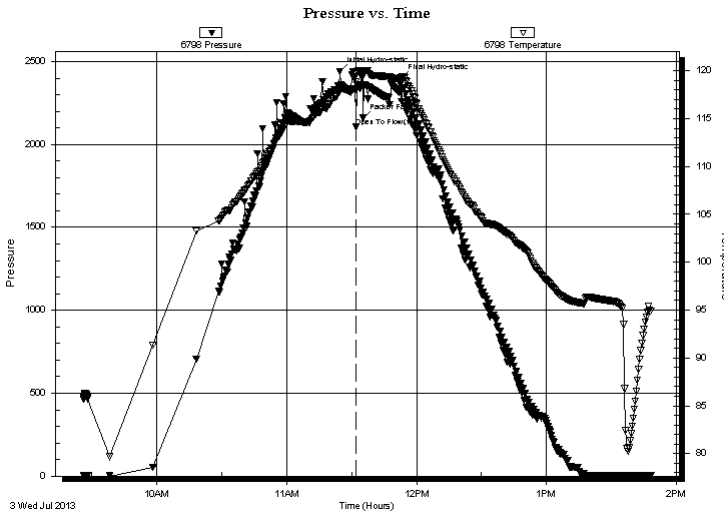
2013.07.03 @ 11:24:30

Time Off Btm:

2013.07.03 @ 11:52:45

TEST COMMENT: Packer Failure, Tried To Set Twice, Pulled Tool

PRESSURE SUMMARY



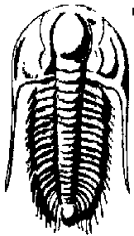
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2440.78	117.89	Initial Hydro-static
8	2104.44	118.81	Open To Flow (1)
11	2157.60	119.78	Packer Failure
29	2398.86	119.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Drig Mud	0.69

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-12w Barber, KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50995

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2013.07.03 @ 09:26:15

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:32:00

Time Test Ended: 13:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 4763.00 ft (KB) To 4800.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8367

Outside

Press @ Run Depth: psig @ 4764.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.03

End Date:

2013.07.03

Last Calib.:

2013.07.03

Start Time: 09:26:20

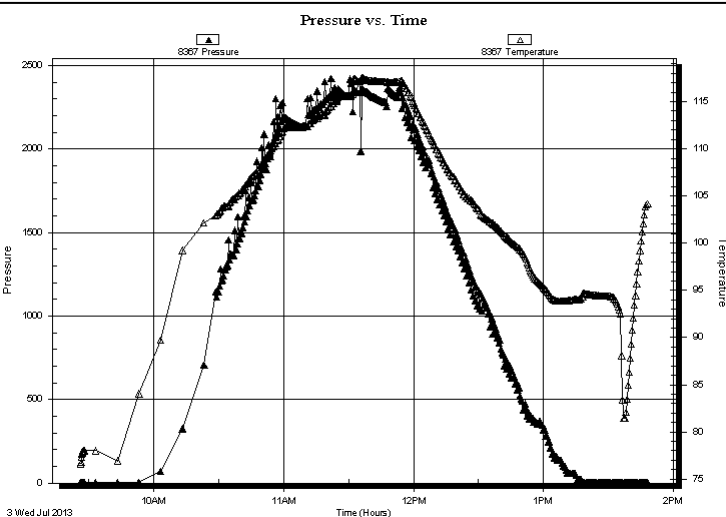
End Time:

13:47:59

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure, Tried To Set Twice, Pulled Tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
200.00	Drig Mud	0.69

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co

2-35s-12w Barber, KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50995

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2013.07.03 @ 09:26:15

Tool Information

Drill Pipe:	Length: 4596.00 ft	Diameter: 3.80 inches	Volume: 64.47 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 151.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 64.47 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4763.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	59.00 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			4746.00	
Hydraulic tool	5.00			4751.00	
Safety Joint	2.00			4753.00	
Packer	5.00			4758.00	22.00 Bottom Of Top Packer
Packer	5.00			4763.00	
Stubb	1.00			4764.00	
Recorder	0.00	6798	Inside	4764.00	
Recorder	0.00	8367	Outside	4764.00	
Perforations	33.00			4797.00	
Bullnose	3.00			4800.00	37.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50995

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2013.07.03 @ 09:26:15

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	Drig Mud	0.687

Total Length: 200.00 ft Total Volume: 0.687 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

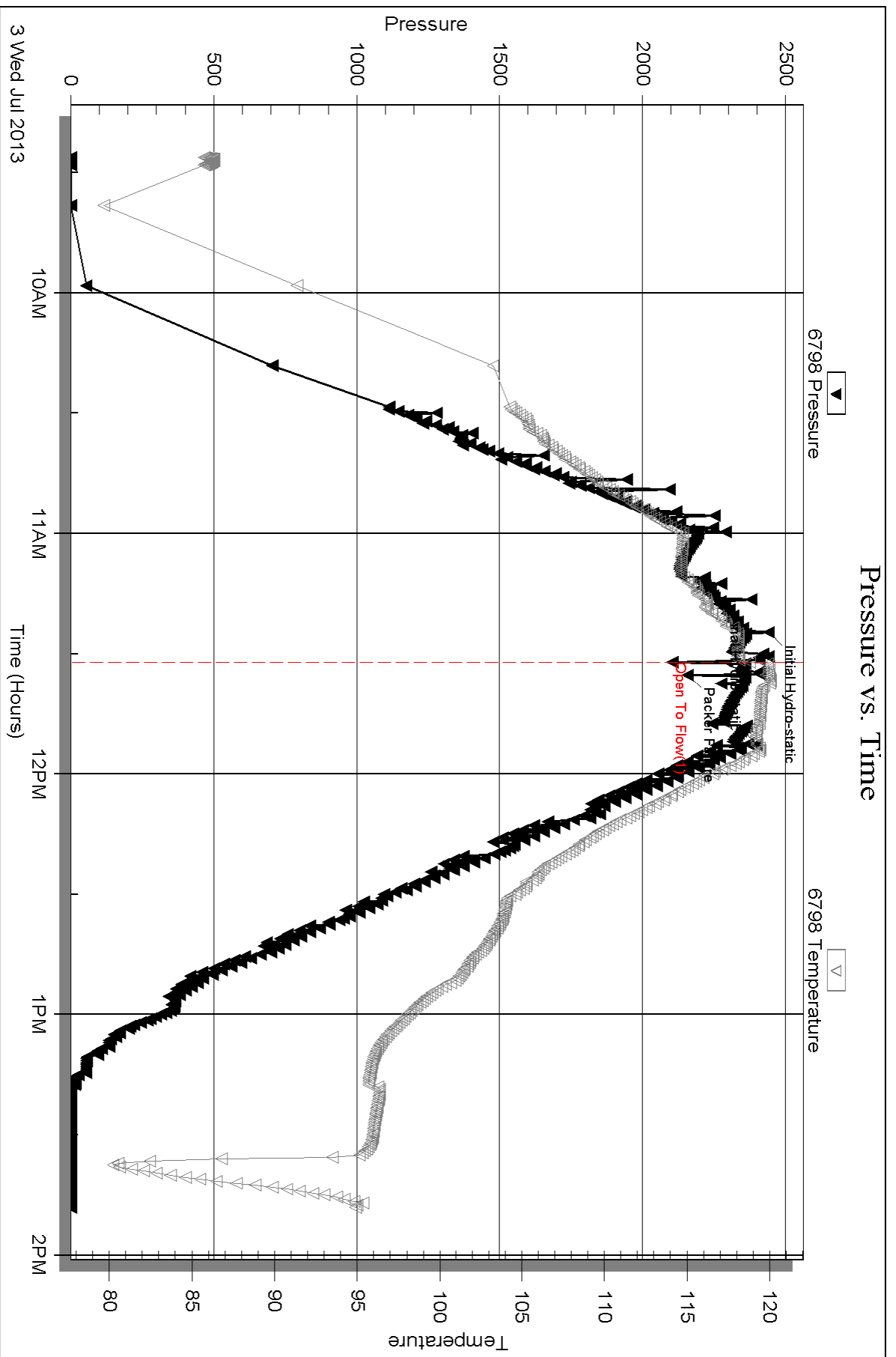
Serial #: 6798

Inside

Chieftain Oil Co

Molz #18

DST Test Number: 1

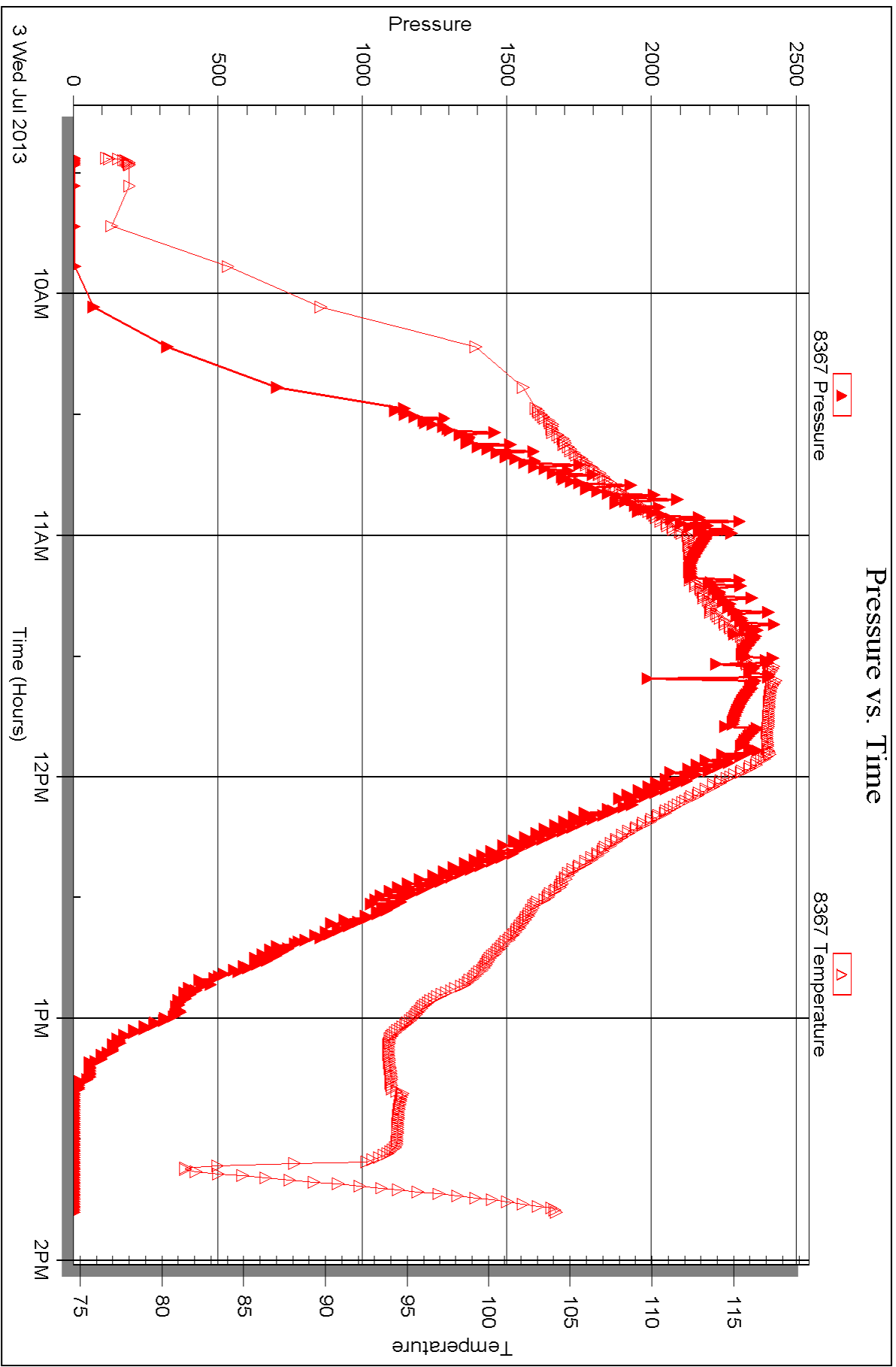


Serial #: 8367

Outside Chieftain Oil Co

Molz #18

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Molz #18

2-35s-12w Barber,KS

Start Date: 2013.07.03 @ 14:06:41

End Date: 2013.07.03 @ 21:44:26

Job Ticket #: 50996 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.09 @ 17:31:19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-12w Barber, KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50996

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2013.07.03 @ 14:06:41

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:52:26

Time Test Ended: 21:44:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 4777.00 ft (KB) To 4800.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 38.69 psig @ 4778.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.03

End Date:

2013.07.03

Last Calib.:

2013.07.03

Start Time: 14:06:42

End Time:

21:44:26

Time On Btm:

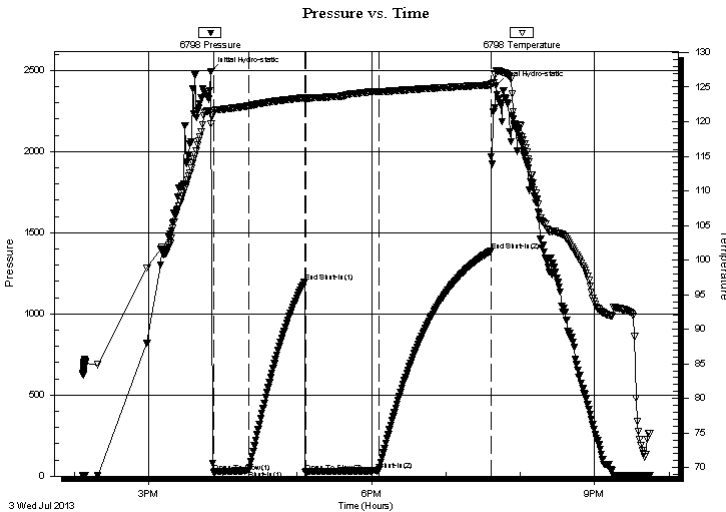
2013.07.03 @ 15:50:26

Time Off Btm:

2013.07.03 @ 19:40:26

TEST COMMENT: IF: Strong Blow, BOB in 4 minutes
IS: No Blow Back
FF: Strong Blow, BOB in 15 seconds
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2494.22	119.71	Initial Hydro-static
2	23.13	121.25	Open To Flow (1)
31	33.89	122.26	Shut-In(1)
76	1197.35	123.45	End Shut-In(1)
77	23.54	123.30	Open To Flow (2)
136	38.69	124.32	Shut-In(2)
226	1387.30	125.32	End Shut-In(2)
230	2406.84	127.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1220 GIP	0.00
40.00	SOCM 2%O 98%M	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
 PO Box 124
 Kiowa, KS 67070
 ATTN: Arden Ratzlaff

2-35s-12w Barber, KS
Molz #18
 Job Ticket: 50996 **DST#: 2**
 Test Start: 2013.07.03 @ 14:06:41

GENERAL INFORMATION:

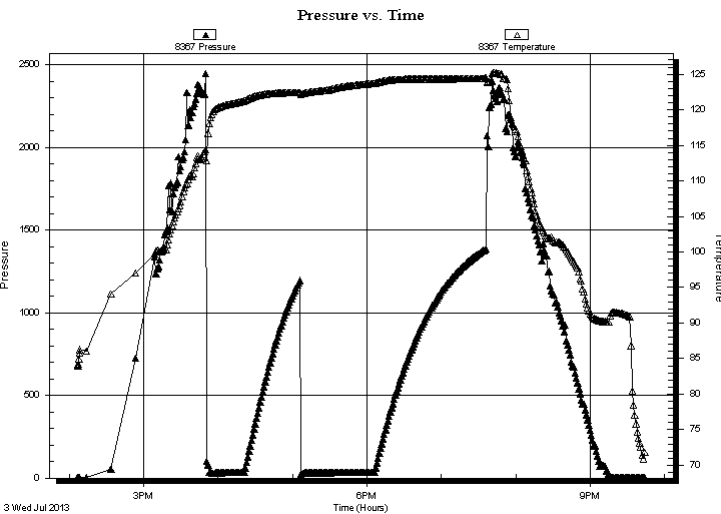
Formation: Mississippi	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Leal Cason
Time Tool Opened: 15:52:26	Unit No: 45
Time Test Ended: 21:44:26	Reference Elevations: 1379.00 ft (KB)
Interval: 4777.00 ft (KB) To 4800.00 ft (KB) (TVD)	1366.00 ft (CF)
Total Depth: 4800.00 ft (KB) (TVD)	KB to GR/CF: 13.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 8367

Outside

Press@RunDepth: psig @ 4778.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.07.03	End Date: 2013.07.03
Start Time: 14:06:46	End Time: 21:44:40
	Last Calib.: 2013.07.03
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes
 IS: No Blow Back
 FF: Strong Blow , BOB in 15 seconds
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1220 GIP	0.00
40.00	SOCM 2%O 98%M	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

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50996

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2013.07.03 @ 14:06:41

Tool Information

Drill Pipe:	Length: 4627.00 ft	Diameter: 3.80 inches	Volume: 64.90 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 151.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 64.90 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4777.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4760.00	
Hydraulic tool	5.00			4765.00	
Safety Joint	2.00			4767.00	
Packer - Shale	5.00			4772.00	
Packer	5.00			4777.00	22.00 Bottom Of Top Packer
Stubb	1.00			4778.00	
Recorder	0.00	6798	Inside	4778.00	
Recorder	0.00	8367	Outside	4778.00	
Perforations	19.00			4797.00	
Bullnose	3.00			4800.00	23.00 Anchor Tool
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50996

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2013.07.03 @ 14:06:41

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	1220 GIP	0.000
40.00	SOCM 2%O 98%M	0.000

Total Length: 40.00 ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

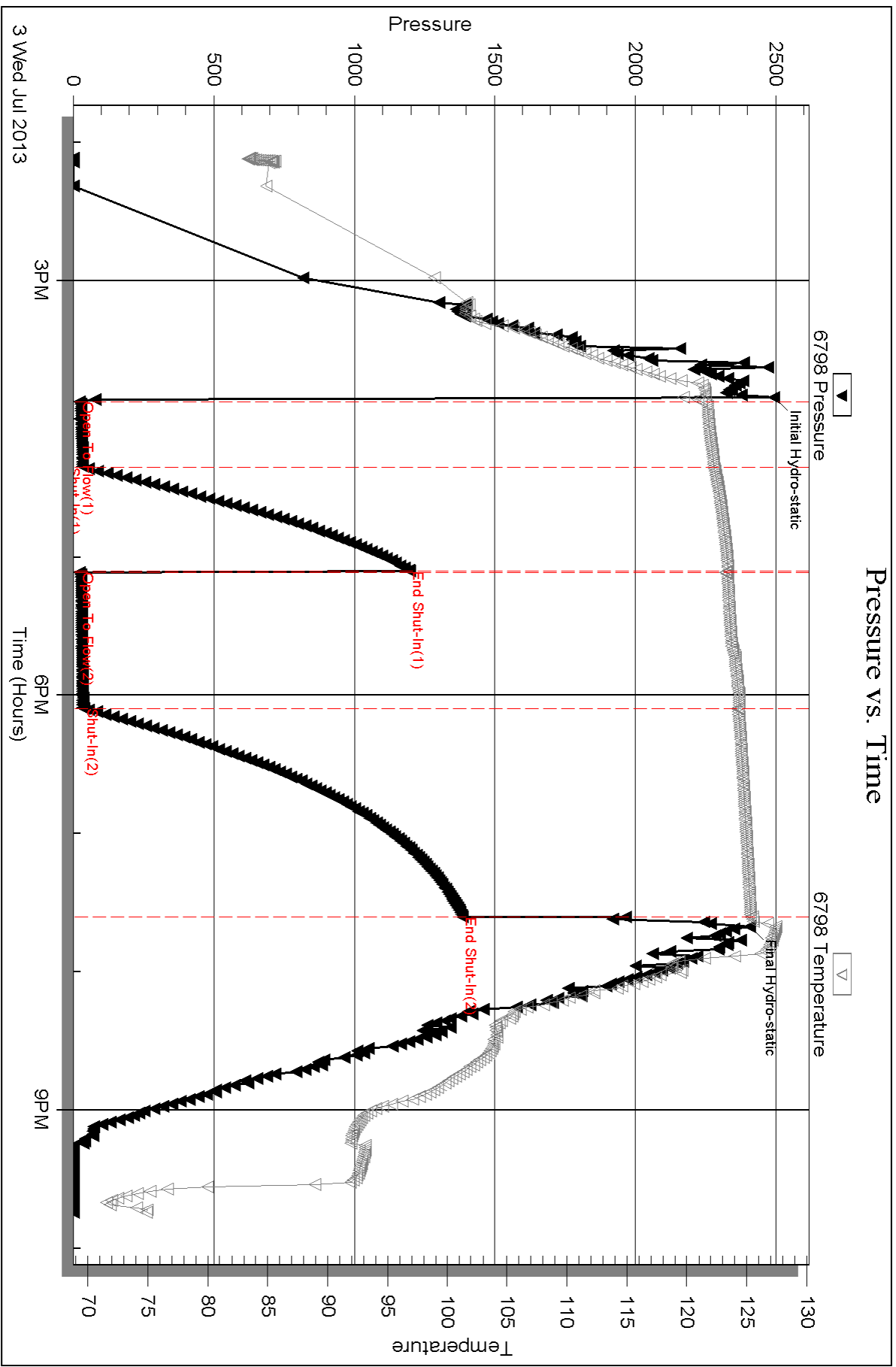
Serial #: 6798

Inside

Chieftain Oil Co

Molz #18

DST Test Number: 2

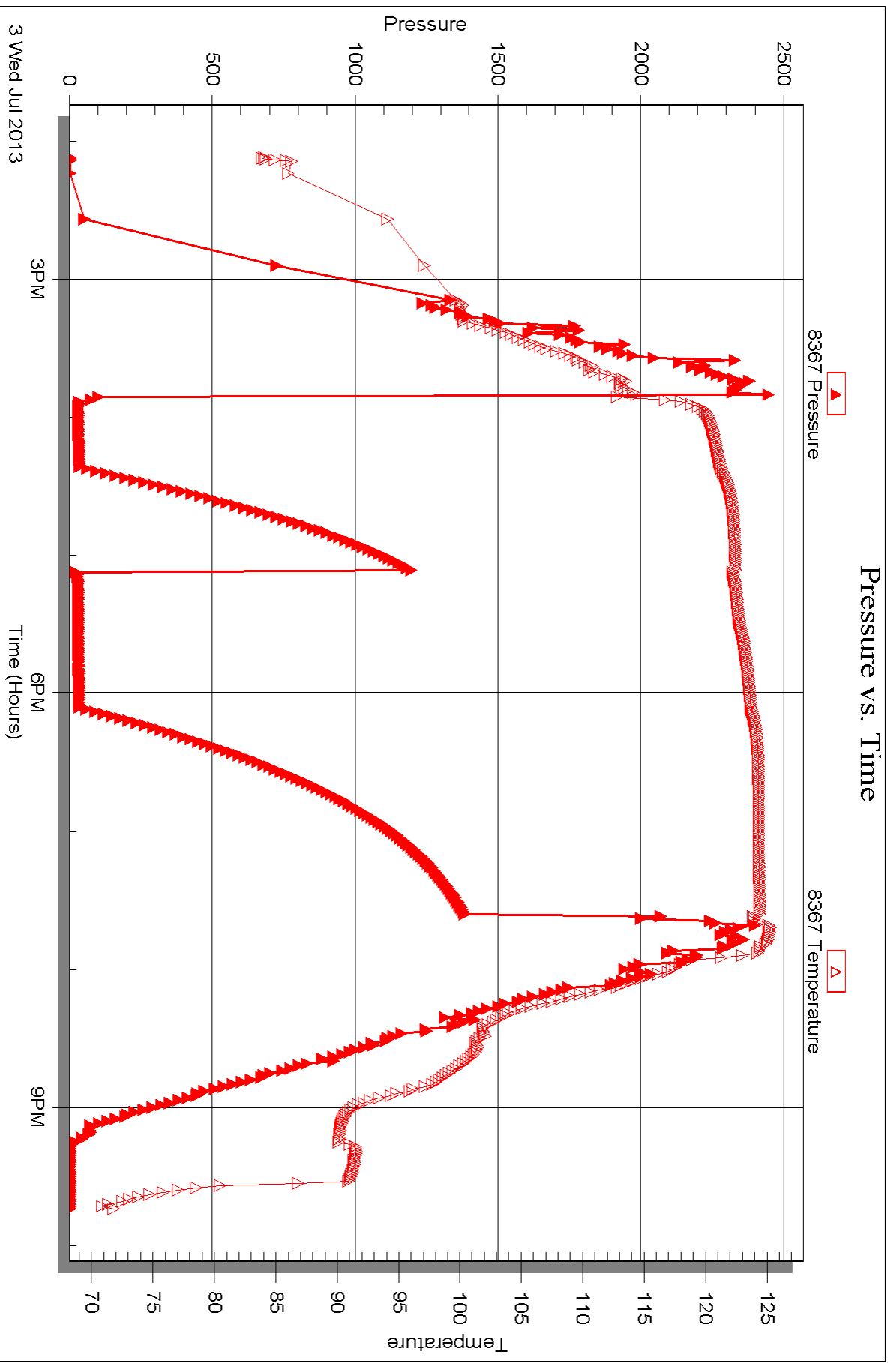


Serial #: 8367

Outside Chieftain Oil Co

Molz #18

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Molz #18

2-35s-12w Barber,KS

Start Date: 2013.07.04 @ 07:11:37

End Date: 2013.07.04 @ 14:39:52

Job Ticket #: 50997 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.09 @ 17:28:56



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50997

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2013.07.04 @ 07:11:37

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:15:22

Time Test Ended: 14:39:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 4801.00 ft (KB) To 4824.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 4824.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 46.65 psig @ 4802.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.04

End Date:

2013.07.04

Last Calib.:

2013.07.04

Start Time:

07:11:38

End Time:

14:39:52

Time On Btm:

2013.07.04 @ 09:13:22

Time Off Btm:

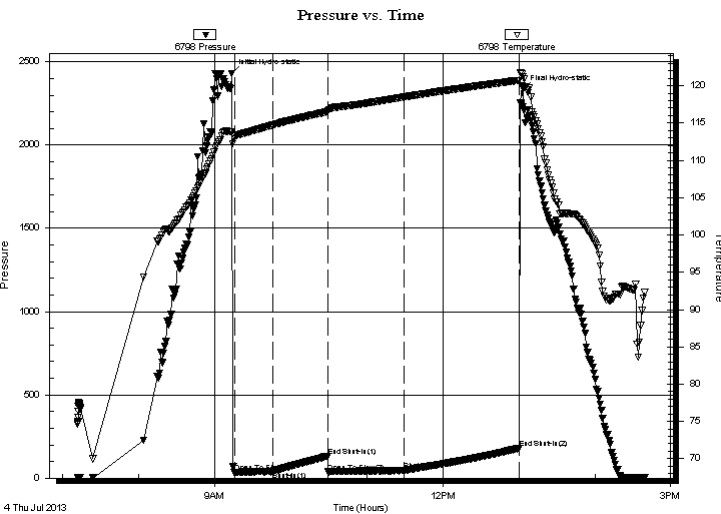
2013.07.04 @ 13:03:37

TEST COMMENT: IF: Weak Blow, Built to 3 1/2 inches

IS: No Blow Back

FF: Weak 1 inch Blow

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2430.95	113.83	Initial Hydro-static
2	32.16	113.24	Open To Flow (1)
33	41.43	114.74	Shut-In(1)
76	132.37	116.51	End Shut-In(1)
76	36.96	116.59	Open To Flow (2)
137	46.65	118.49	Shut-In(2)
228	181.04	120.75	End Shut-In(2)
231	2335.46	121.18	Final Hydro-static

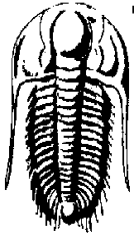
Recovery

Length (ft)	Description	Volume (bbl)
20.00	V SOCM 1%O 99%M	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

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50997

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2013.07.04 @ 07:11:37

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:15:22

Time Test Ended: 14:39:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: **4801.00 ft (KB) To 4824.00 ft (KB) (TVD)**

Reference Elevations: 1379.00 ft (KB)

Total Depth: 4824.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8367 Outside

Press @ Run Depth: psig @ 4802.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.04 End Date: 2013.07.04

Last Calib.: 2013.07.04

Start Time: 07:11:42 End Time: 14:40:06

Time On Btm:

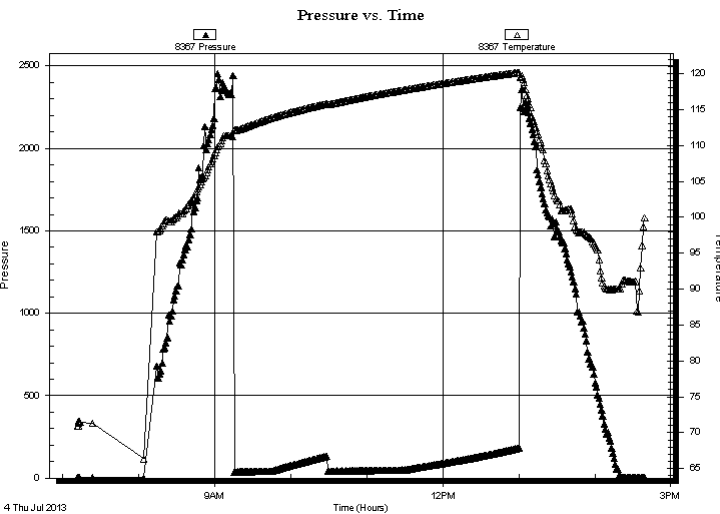
Time Off Btm:

TEST COMMENT: IF: Weak Blow, Built to 3 1/2 inches

IS: No Blow Back

FF: Weak 1 inch Blow

FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	V SOCM 1%O 99%M	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

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50997

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2013.07.04 @ 07:11:37

Tool Information

Drill Pipe:	Length: 4658.00 ft	Diameter: 3.80 inches	Volume: 65.34 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 151.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 65.34 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4801.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	23.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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

Shut In Tool	5.00			4784.00	
Hydraulic tool	5.00			4789.00	
Safety Joint	2.00			4791.00	
Packer - Shale	5.00			4796.00	
Packer	5.00			4801.00	22.00 Bottom Of Top Packer
Stubb	1.00			4802.00	
Recorder	0.00	6798	Inside	4802.00	
Recorder	0.00	8367	Outside	4802.00	
Perforations	19.00			4821.00	
Bullnose	3.00			4824.00	23.00 Anchor Tool
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50997

DST#: 3

ATTN: Arden Ratzlaff

Test Start: 2013.07.04 @ 07:11:37

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	VSOCM 1%O 99%M	0.000

Total Length: 20.00 ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

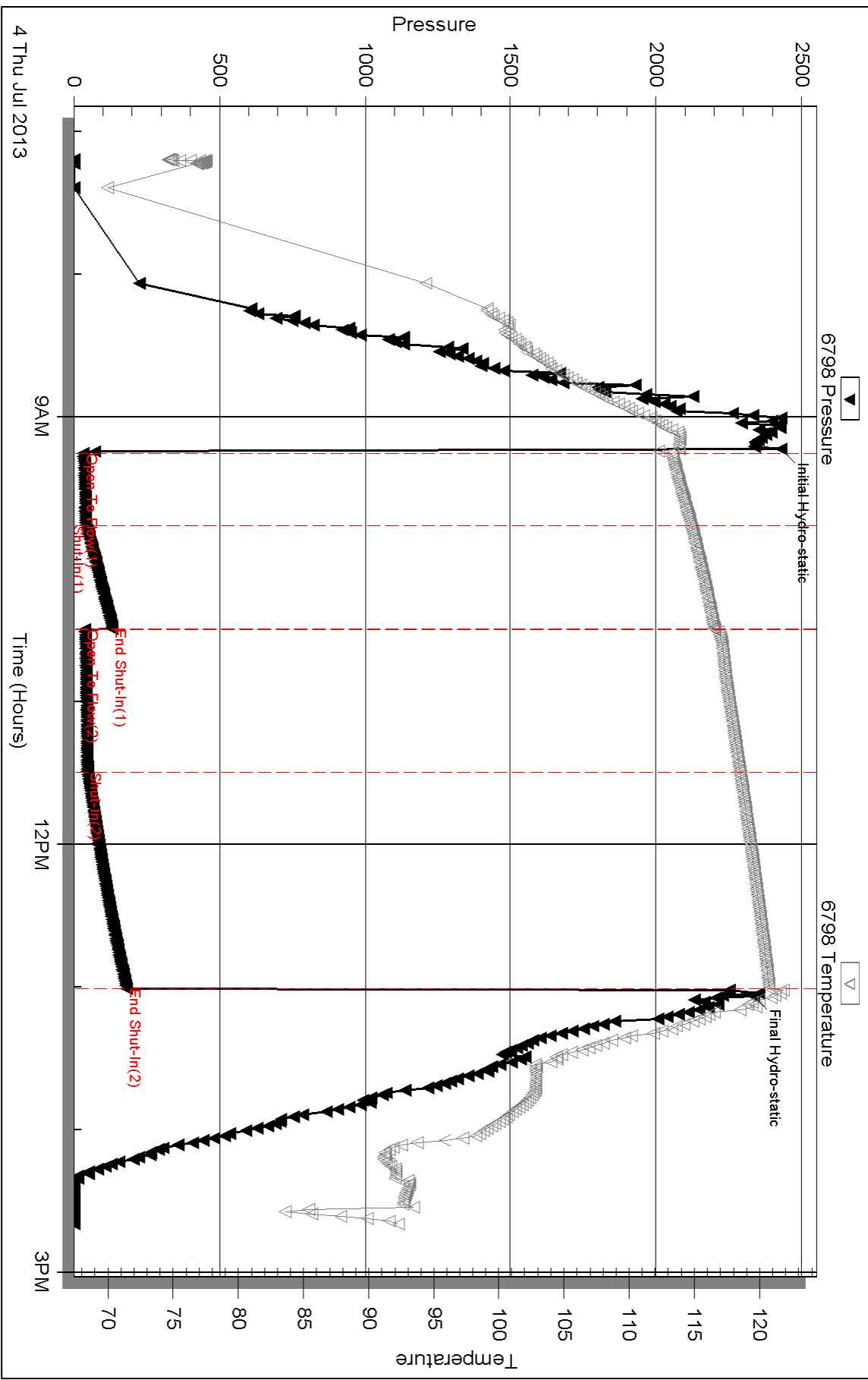
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

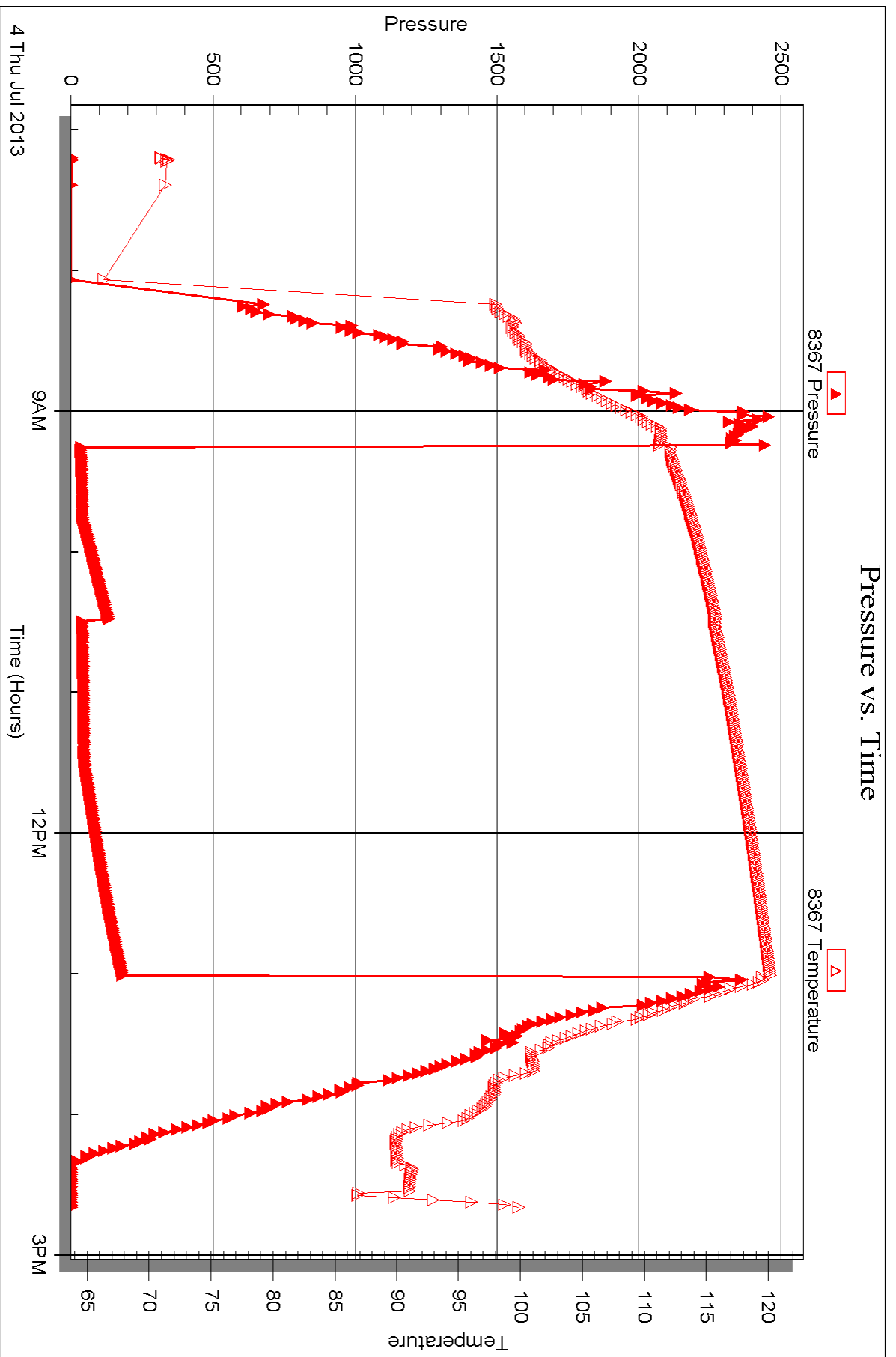


Serial #: 8367

Outside Chieftain Oil Co

Molz #18

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Molz #18

2-35s-12w Barber,KS

Start Date: 2013.07.06 @ 01:09:52

End Date: 2013.07.06 @ 09:26:22

Job Ticket #: 50998 DST #: 4

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

Printed: 2013.07.09 @ 17:28:23



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-12w Barber, KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50998

DST#: 4

ATTN: Arden Ratzlaff

Test Start: 2013.07.06 @ 01:09:52

GENERAL INFORMATION:

Formation: **Misener**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:38:37

Time Test Ended: 09:26:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 5112.00 ft (KB) To 5132.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 5132.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 564.19 psig @ 5113.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.06

End Date:

2013.07.06

Last Calib.:

2013.07.06

Start Time:

01:09:53

End Time:

09:26:22

Time On Btm:

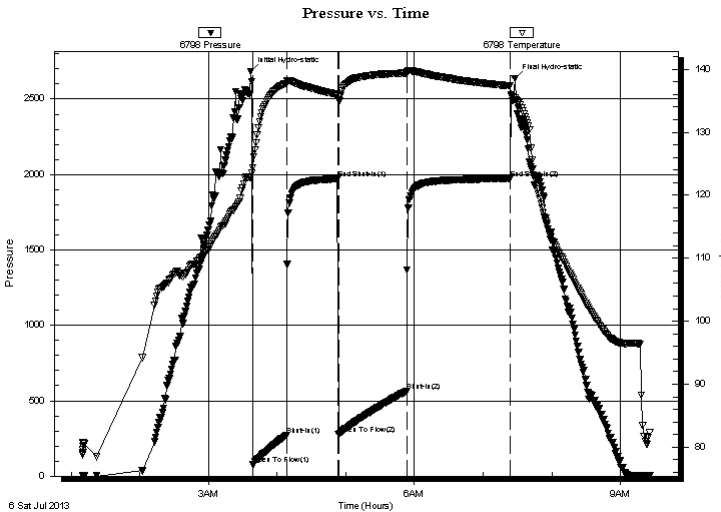
2013.07.06 @ 03:36:37

Time Off Btm:

2013.07.06 @ 07:27:37

TEST COMMENT: IF: Fair Blow, BOB in 9 minutes
IS: Blow Back Built to 1 inch
FF: Fair Blow, BOB in 13 minutes
FS: 1/2 inch Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2684.02	122.83	Initial Hydro-static
2	78.18	124.40	Open To Flow (1)
32	272.20	137.72	Shut-In(1)
77	1970.59	135.98	End Shut-In(1)
77	278.15	135.10	Open To Flow (2)
137	564.19	139.41	Shut-In(2)
227	1971.87	137.36	End Shut-In(2)
231	2634.00	135.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	160 GIP	0.00
930.00	Water	10.93
124.00	MCW 40%M 60%W	1.74
82.00	SOWCM 2%O 28%W 70%M	1.15

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50998

DST#: 4

ATTN: Arden Ratzlaff

Test Start: 2013.07.06 @ 01:09:52

GENERAL INFORMATION:

Formation: **Misener**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:38:37

Time Test Ended: 09:26:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 5112.00 ft (KB) To 5132.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 5132.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 8367 Outside

Press @ RunDepth: psig @ 5113.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.06

End Date:

2013.07.06

Last Calib.:

2013.07.06

Start Time: 01:09:57

End Time:

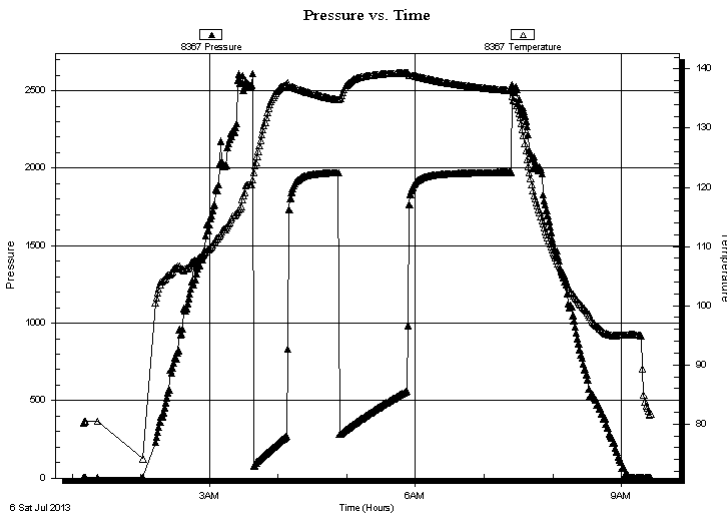
09:26:21

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 9 minutes
IS: Blow Back Built to 1 inch
FF: Fair Blow , BOB in 13 minutes
FS: 1/2 inch Blow Back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	160 GIP	0.00
930.00	Water	10.93
124.00	MCW 40%M 60%W	1.74
82.00	SOWCM 2%O 28%W 70%M	1.15

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

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50998

DST#: 4

ATTN: Arden Ratzlaff

Test Start: 2013.07.06 @ 01:09:52

Tool Information

Drill Pipe:	Length: 4943.00 ft	Diameter: 3.80 inches	Volume: 69.34 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 151.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 69.34 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	5112.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	42.00 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			5095.00	
Hydraulic tool	5.00			5100.00	
Safety Joint	2.00			5102.00	
Packer - Shale	5.00			5107.00	
Packer	5.00			5112.00	22.00 Bottom Of Top Packer
Stubb	1.00			5113.00	
Recorder	0.00	6798	Inside	5113.00	
Recorder	0.00	8367	Outside	5113.00	
Perforations	16.00			5129.00	
Bullnose	3.00			5132.00	20.00 Anchor Tool
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 50998

DST#: 4

ATTN: Arden Ratzlaff

Test Start: 2013.07.06 @ 01:09:52

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:

130000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.48 in³

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 bbbl
0.00	160 GIP	0.000
930.00	Water	10.927
124.00	MCW 40%M 60%W	1.739
82.00	SOWCM 2%O 28%W 70%M	1.150

Total Length: 1136.00 ft Total Volume: 13.816 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

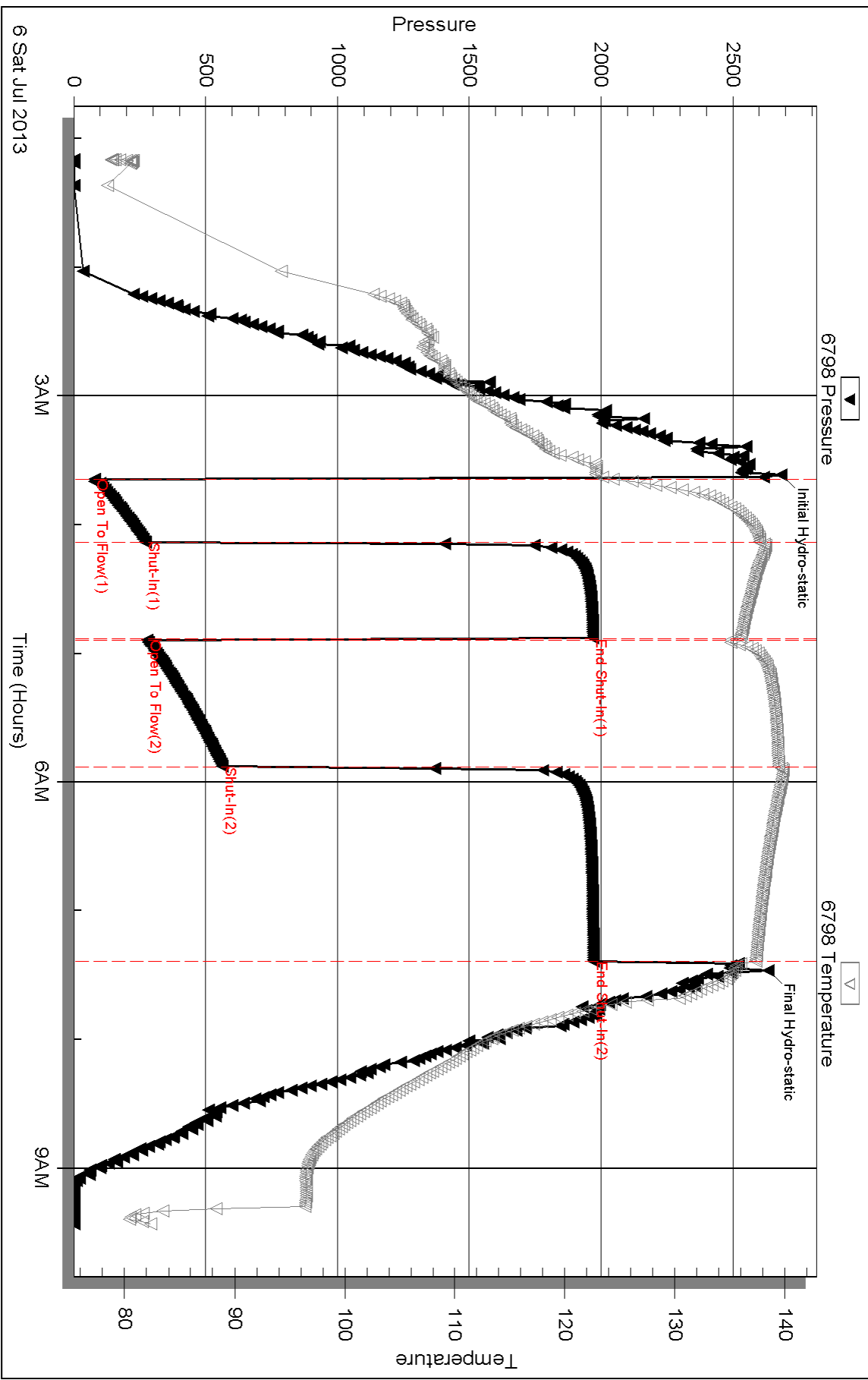
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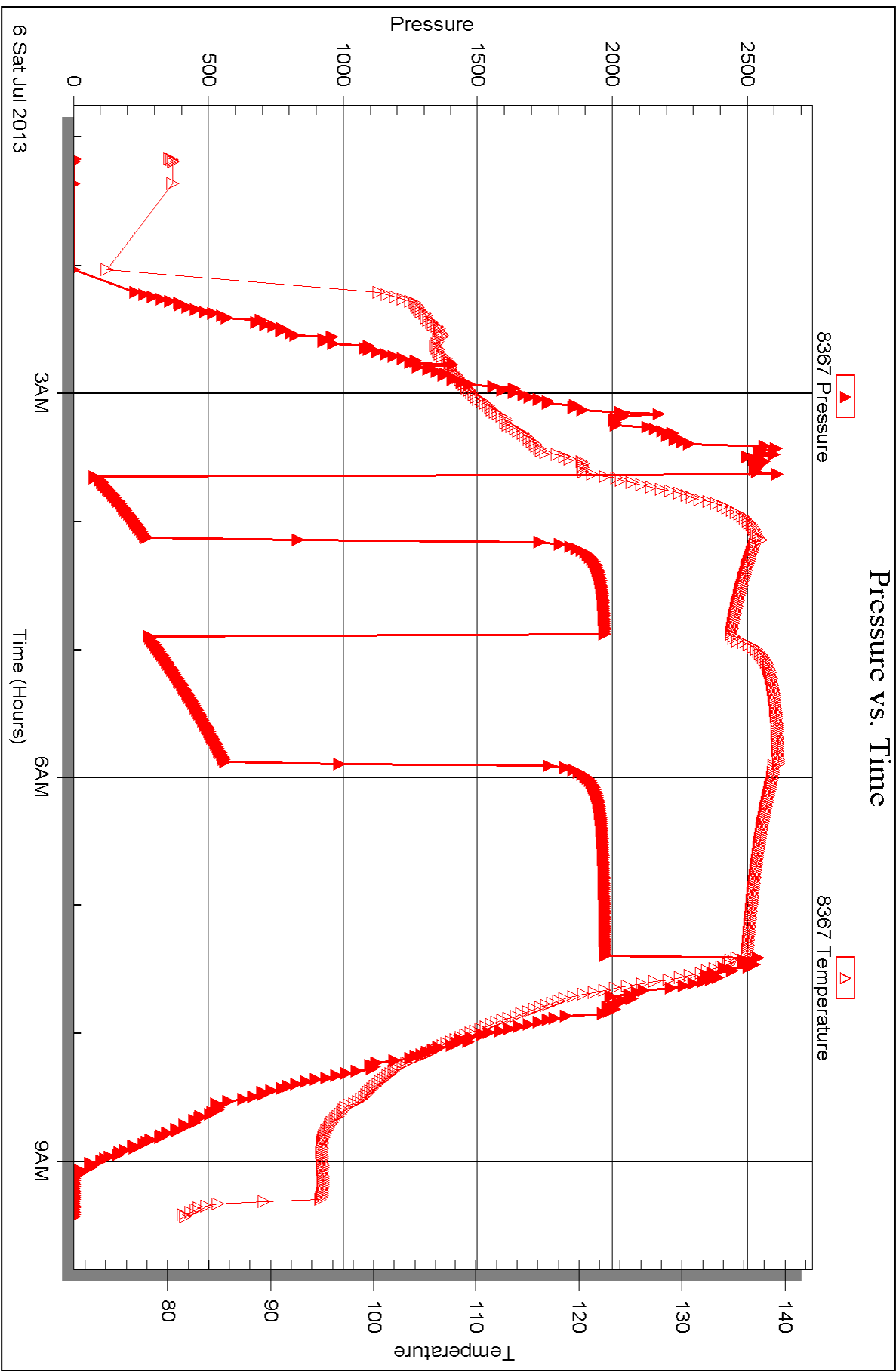
Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .06 @ 75 degrees

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Molz #18

2-35s-12w Barber,KS

Start Date: 2013.07.07 @ 08:55:30

End Date: 2013.07.07 @ 17:26:00

Job Ticket #: 52337 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.09 @ 17:27:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-12w Barber, KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 52337

DST#: 5

ATTN: Arden Ratzlaff

Test Start: 2013.07.07 @ 08:55:30

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:55:00

Time Test Ended: 17:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

Interval: 5259.00 ft (KB) To 5294.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 5294.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8790

Inside

Press @ Run Depth: 513.06 psig @ 5260.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.07

End Date:

2013.07.07

Last Calib.:

2013.07.07

Start Time:

08:55:35

End Time:

17:25:59

Time On Btm:

2013.07.07 @ 10:49:00

Time Off Btm:

2013.07.07 @ 14:42:15

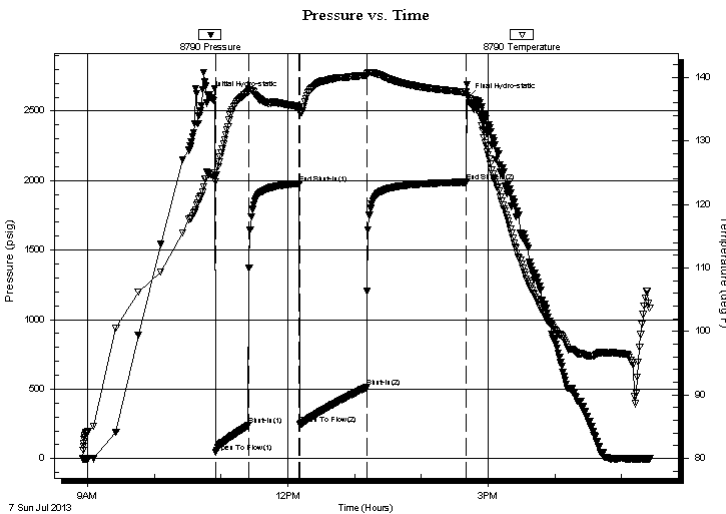
TEST COMMENT: IF: Strong blow . 1/4" - BOB @ 12 1/4 min.

IS: No blow

FF: Strong blow . surf. - BOB @ 16 min.

FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2608.18	124.77	Initial Hydro-static
6	44.95	123.53	Open To Flow (1)
36	237.81	137.71	Shut-In(1)
82	1979.57	135.37	End Shut-In(1)
82	244.83	134.56	Open To Flow (2)
142	513.06	140.28	Shut-In(2)
232	1988.63	137.69	End Shut-In(2)
234	2593.30	136.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1140.00	SLI GCW 3%gas, 97%w tr	14.62
240.00	MCW 25%mud, 75%w tr	3.37

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-12w Barber, KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 52337

DST#: 5

ATTN: Arden Ratzlaff

Test Start: 2013.07.07 @ 08:55:30

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:55:00

Time Test Ended: 17:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 48

Interval: 5259.00 ft (KB) To 5294.00 ft (KB) (TVD)

Reference Elevations: 1379.00 ft (KB)

Total Depth: 5294.00 ft (KB) (TVD)

1366.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8792 Outside

Press @ Run Depth: psig @ 5260.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.07

End Date:

2013.07.07

Last Calib.:

2013.07.07

Start Time: 08:51:13

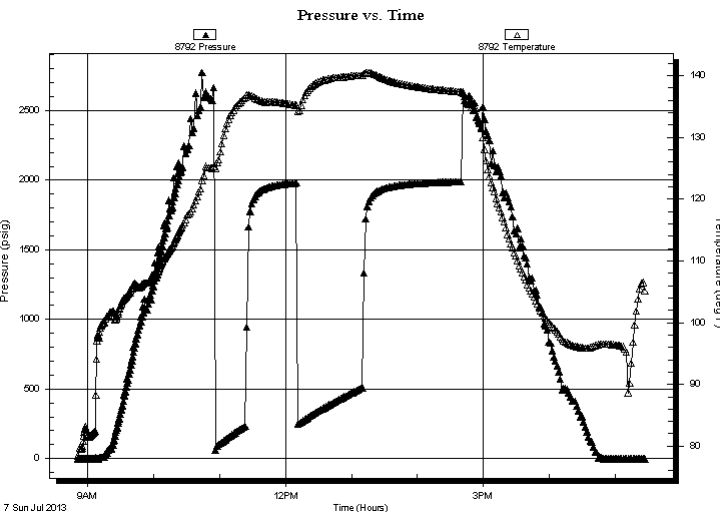
End Time:

17:27:23

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Strong blow . 1/4" - BOB @ 12 1/4 min.
 IS: No blow
 FF: Strong blow . surf. - BOB @ 16 min.
 FS: No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1140.00	SLI GCW 3%gas, 97%w tr	14.62
240.00	MCW 25%mud, 75%w tr	3.37

* 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

2-35s-12w Barber, KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 52337

DST#: 5

ATTN: Arden Ratzlaff

Test Start: 2013.07.07 @ 08:55:30

Tool Information

Drill Pipe:	Length: 5105.00 ft	Diameter: 3.80 inches	Volume: 71.61 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: 151.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 72.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	5259.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5242.00	
Hydraulic tool	5.00			5247.00	
Safety Joint	2.00			5249.00	
Packer - Shale	5.00			5254.00	
Packer	5.00			5259.00	22.00 Bottom Of Top Packer
Stubb	1.00			5260.00	
Recorder	0.00	8790	Inside	5260.00	
Recorder	0.00	8792	Outside	5260.00	
Perforations	31.00			5291.00	
Bullnose	3.00			5294.00	35.00 Anchor Tool
Total Tool Length:	57.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co

2-35s-12w Barber,KS

PO Box 124
Kiowa, KS 67070

Molz #18

Job Ticket: 52337

DST#: 5

ATTN: Arden Ratzlaff

Test Start: 2013.07.07 @ 08:55:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

76000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.49 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1140.00	SLI GCW 3%gas, 97%w tr	14.616
240.00	MCW 25%mud, 75%w tr	3.367

Total Length: 1380.00 ft Total Volume: 17.983 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

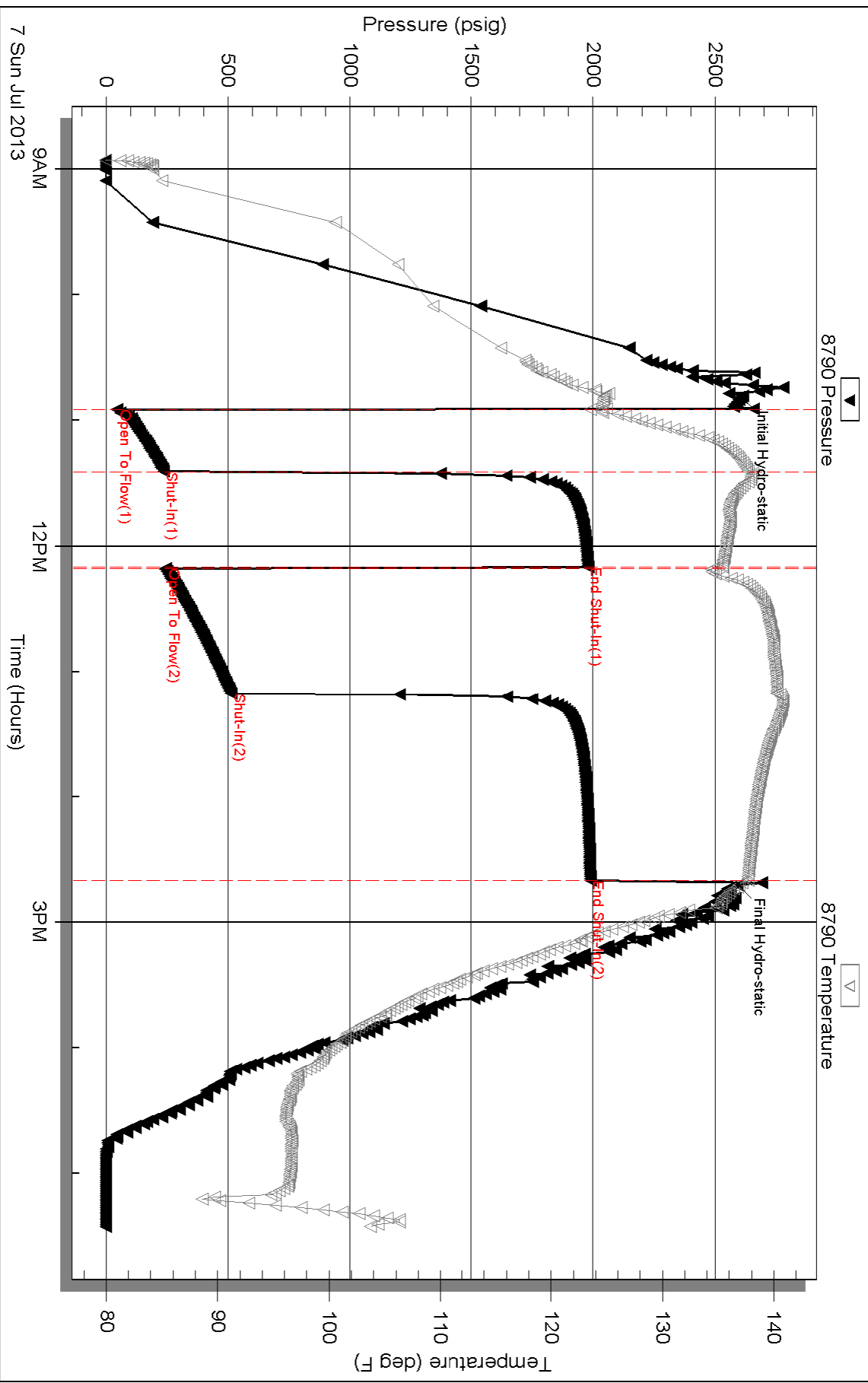
Inside

Chieftain Oil Co

Molz #18

DST Test Number: 5

Pressure vs. Time

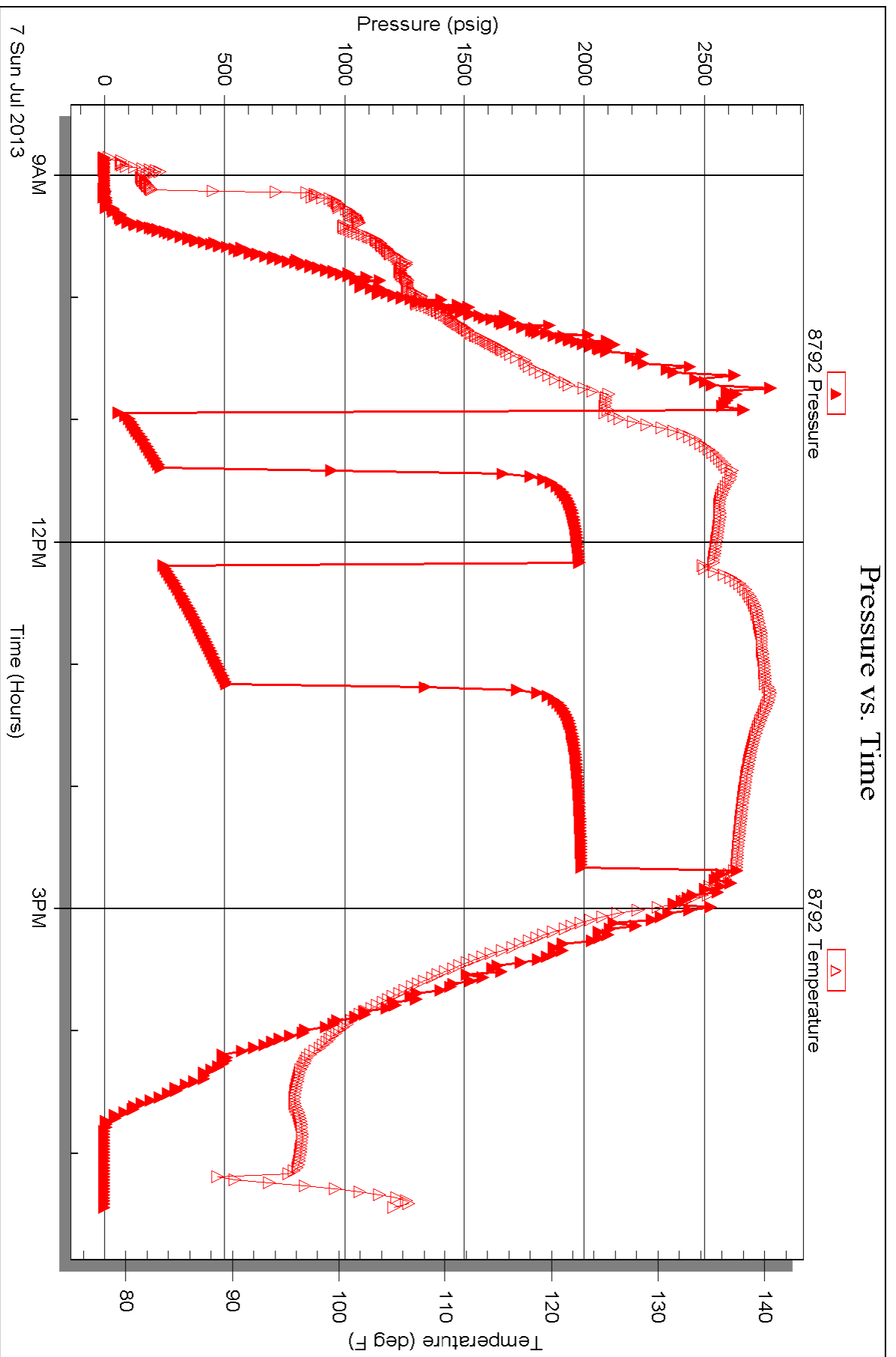


Serial #: 8792

Outside Chieftain Oil Co

Molz #18

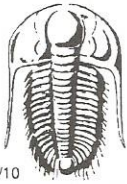
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 52337

Printed: 2013.07.09 @ 17:27:50



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50995

Well Name & No. Molz 18 Test No. 1 Date 07/03/13
 Company Chieftain Oil Co Elevation 1379 KB 1366 GL
 Address PO Box 124 Kiowa, KS 67070
 Co. Rep / Geo. Arden Ratzlaff Rig Fossil 3
 Location: Sec. 2 Twp. 35S Rge. 12W Co. Barber State KS

Interval Tested 4763 - 4800 Zone Tested Mississippi
 Anchor Length 37 Drill Pipe Run 4596 Mud Wt. 9.3
 Top Packer Depth 4758 Drill Collars Run 151 Vis 60
 Bottom Packer Depth 4763 Wt. Pipe Run 0 WL 7.0
 Total Depth 4800 Chlorides 3400 ppm System LCM 4
 Blow Description Packer Failure, tried to set twice, pulled test

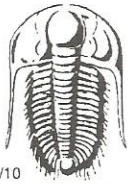
Rec	Feet of	%gas	%oil	%water	%mud
<u>200</u>	<u>Drig mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 200 BHT 119 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 2441 Test 1050 T-On Location 08:45
 (B) First Initial Flow N/A Jars T-Started 09:26
 (C) First Final Flow N/A Safety Joint 75 T-Open 11:32
 (D) Initial Shut-In N/A Circ Sub T-Pulled 11:35
 (E) Second Initial Flow N/A Hourly Standby T-Out 13:48
 (F) Second Final Flow N/A Mileage (110) 170.50 Comments _____
 (G) Final Shut-In N/A Sampler _____
 (H) Final Hydrostatic 2399 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open _____
 Initial Shut-In _____
 Final Flow _____
 Final Shut-In _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1295.50 Sub Total 0
 Total 1295.50 Total 1295.50
 MP/DST Disc't

Approved By Arden Ratzlaff Our Representative [Signature]

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50996

Well Name & No. Molz 18 Test No. 2 Date 07/03/13
 Company Chief + ain oil co Elevation 1379 KB 1366 GL
 Address PO Box 124 Kiowa, KS 67070
 Co. Rep / Geo. Arden Ratzlaff Rig Fossil 3
 Location: Sec. 2 Twp. 35S Rge. 12W Co. Barber State KS

Interval Tested 4777 - 4800 Zone Tested Mississippi
 Anchor Length 23 Drill Pipe Run 4627 Mud Wt. 9.3
 Top Packer Depth 4772 Drill Collars Run 151 Vis 60
 Bottom Packer Depth 4777 Wt. Pipe Run 0 WL 7.0
 Total Depth 4800 Chlorides 3400 ppm System LCM 4

Blow Description IF: Strong Blow, BOB in 4 minutes

TST: No Blow Back

FF: Strong Blow, BOB in 15 seconds

FSI: No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1220</u>	<u>GIP</u>				
<u>40</u>	<u>SOCM</u>		<u>2</u>		<u>98</u>

Rec Total 40 BHT 125 Gravity NIC API RW NIC @ NIC F Chlorides NIC ppm

(A) Initial Hydrostatic 2494 Test 1250 T-On Location 13:45
 (B) First Initial Flow 23 Jars T-Started 14:06
 (C) First Final Flow 34 Safety Joint 75 T-Open 15:52
 (D) Initial Shut-In 1197 Circ Sub T-Pulled 19:36
 (E) Second Initial Flow 23 Hourly Standby T-Out 21:44
 (F) Second Final Flow 39 Mileage
 (G) Final Shut-In 1387 Sampler
 (H) Final Hydrostatic 2407 Straddle

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1325
 MP/DST Disc't
 Sub Total 1325

Approved By Arden Ratzlaff Our Representative _____

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50997

Well Name & No. Molzib Test No. 3 Date 07/04/13
 Company Chieftain oil co Elevation 1379 KB 1366 GL
 Address PO Box 124 Kiowa, KS 67070
 Co. Rep / Geo. Arden Ratzlaff Rig Fossil 3
 Location: Sec. 2 Twp. 35S Rge. 12W Co. Barber State KS

Interval Tested 4801 - 4824 Zone Tested Mississippi
 Anchor Length 23 Drill Pipe Run 4658 Mud Wt. 9.3
 Top Packer Depth 4796 Drill Collars Run 151 Vis 57
 Bottom Packer Depth 4801 Wt. Pipe Run 0 WL 7.0
 Total Depth 4824 Chlorides 3700 ppm System LCM 3

Blow Description IF: Weak Blow, Built to 3 1/2 inches
TST: NO Blow Back
FF: Weak Linch Blow
EST: NO Blow Back

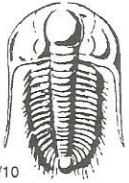
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>150cm</u>		<u>1</u>		<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 121 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic <u>2431</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>06:30</u>
(B) First Initial Flow <u>32</u>	<input type="checkbox"/> Jars	T-Started <u>07:11</u>
(C) First Final Flow <u>41</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:15</u>
(D) Initial Shut-In <u>132</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>13:00</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:39</u>
(F) Second Final Flow <u>47</u>	<input checked="" type="checkbox"/> Mileage <u>(110)</u> 170.50	Comments
(G) Final Shut-In <u>181</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2335</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	Total <u>1745.50</u>
	Sub Total <u>1745.50</u>	<input checked="" type="checkbox"/> MP/DST Disc't

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. 50998

Well Name & No. Molz 18 Test No. 4 Date 07/06/13
 Company Chieftain Oil Co Elevation 1379 KB 1366 GL
 Address PO Box 124 Kiowa, KS 67070
 Co. Rep / Geo. Alden Ratzlaff Rig Fossil 3
 Location: Sec. 3 Twp. 35S Rge. 12W Co. Barber State KS

Interval Tested 5112 - 5132 Zone Tested Misener
 Anchor Length 20 Drill Pipe Run 4943 Mud Wt. 9.4
 Top Packer Depth 5107 Drill Collars Run 151 Vis 65
 Bottom Packer Depth 5112 Wt. Pipe Run 0 WL 8.5
 Total Depth 5132 Chlorides 6300 ppm System LCM 3

Blow Description IF: Fair Blow, BOB in 9 minutes

TST: Blowback Built to Linch

~~IF~~ FF: Fair Blow, BOB in 13 minutes

FST: 1/2 inch Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>160</u>	<u>GJP</u>				
<u>82</u>	<u>SOWCM</u>		<u>2</u>	<u>28</u>	<u>70</u>
<u>124</u>	<u>MCW</u>			<u>60</u>	<u>40</u>
<u>930</u>	<u>water</u>				

Rec Total 1136 BHT 137 Gravity N/C API RW .06 @ 75 °F Chlorides 130,000 ppm

(A) Initial Hydrostatic <u>2684</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>03:00:15</u>
(B) First Initial Flow <u>78</u>	<input type="checkbox"/> Jars	T-Started <u>01:09</u>
(C) First Final Flow <u>272</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>03:38</u>
(D) Initial Shut-In <u>1971</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:23</u>
(E) Second Initial Flow <u>278</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:26</u>
(F) Second Final Flow <u>564</u>	<input checked="" type="checkbox"/> Mileage <u>(110)</u> 170.50	Comments
(G) Final Shut-In <u>1972</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2634</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>316.67</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby <u>1/2</u> 1d 9.5h	Total <u>2162.17</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't <input checked="" type="checkbox"/>
	Sub Total <u>1845.50</u>	

Approved By Alden Ratzlaff

Our Representative [Signature]

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52337

Well Name & No. Molz #18 Test No. 5 Date 7-7-13
 Company Chieftain Oil Co. Elevation 1379 KB 1366 GL
 Address P.O. Box 124 Kiowa, KS 67070
 Co. Rep / Geo. Arden Ratzlaff Rig Fossil #3
 Location: Sec. 2 Twp. 35s. Rge. 12w. Co. Barber State KS

Interval Tested 5259-5294 Zone Tested Simpson
 Anchor Length 35 Drill Pipe Run 5105 Mud Wt. 9.5
 Top Packer Depth 5254 Drill Collars Run 151 Vis 68
 Bottom Packer Depth 5259 Wt. Pipe Run Ø WL 8.5
 Total Depth 5294 Chlorides 6400 ppm System LCM 1#

Blow Description IF: Strong blow. 1/4" - BOB @ 12 1/4 min.
ISI: No blow
FF: Strong blow, surf. - BOB @ 16 min.
FST: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>340</u>	<u>MKW</u>		<u>75</u>	<u>25</u>	
<u>1140</u>	<u>SLI GLW</u>	<u>3</u>	<u>97</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1380 BHT 140 Gravity N/C API RW 270 @ 100 °F Chlorides 76000 ppm
 (A) Initial Hydrostatic 2608 Test 1350 T-On Location 0800
 (B) First Initial Flow 45 Jars T-Started 0856
 (C) First Final Flow 238 Safety Joint 75 T-Open 1055
 (D) Initial Shut-In 1980 Circ Sub T-Pulled 1440
 (E) Second Initial Flow 245 Hourly Standby T-Out 1726
 (F) Second Final Flow 513 Mileage 110 170.50 Comments _____
 (G) Final Shut-In 1989 Sampler _____
 (H) Final Hydrostatic 2593 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1845.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1845.50

Approved By Arden Ratzlaff 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.