



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1122498
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: _____



1122498

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Roberts Resources, Inc.
Well Name	Thom 'A' 2-28
Doc ID	1122498

Tops

Name	Top	Datum
Onaga	2620	-1019
Heebner	3556	-1955
Upper Douglas Sd	3623	-2022
Lower Douglas Sd	3699	-2098
LKC	3740	-2139
Mississippi	4240	-2639
Viola	4496	-3895
TD	4512	-2911

Customer	Roberts Resource	Lease No.		Date	12-12-13
Lease	Truman A	Well #	2-28		
Field Order #	2509	Station	Pratt	Casing	2 3/8
				Depth	270
Type Job	CNW - 3 3/8 Surface	Formation		County	Barber
				State	KS
				Legal Description	28-31-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
2 3/8	2 3/8	20000		60/40 P02				
Depth	Depth	From	To	Pre Pad	Max		5 Min.	
270			295	3% CC				
Volume	Volume	From	To	Rad	Min		10 Min.	
17.28			1/2	3% CC				
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	
				16.5				

Customer Representative	Dick	Station Manager	Dave Scott	Treater	Steve Orlando
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Service Units	27285	27465	19959/21010						
Driver Names	W. Williams	Price							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:30 AM					On location - Safety Meeting
					Ran 6 1/2 3 3/8 Surface
					Conductor Bull up
					Break Line w/ 1/2
3:10	200		43	5	mix 20000 60/40 P02 @ 14.3"/min
3:20	0		0	0	Release Plug Steel Displacement
3:28	200		10	0	Conductor to Surface
3:30 AM	200		16 1/2	4	Plug Down
					Circulation Time Job
					Completed 6 bbl 1.5 ft
					Job Complete
					Truman, Steve



PAGE 1 of 1	CUST NO 1003562	INVOICE DATE 12/17/2012
INVOICE NUMBER 1718 - 91074473		

Pratt (620) 672-1201
 B ROBERTS RESOURCES INC
 I 2020 N TYLER RD STE 106
 L WICHITA
 L KS US 67212
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Thom A 2-28
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40545761	27463			Net - 30 days	01/16/2013
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 12/12/2012 to 12/12/2012</i>					
0040545761					
171807509A Cement-New Well Casing/Pi 12/12/2012 Cement 8 5/8" Sufrace					
60/40 POZ		200.00	EA	9.00	1,800.00 T
Celloflake		50.00	EA	2.78	138.75 T
Calcium Chloride		516.00	EA	0.79	406.35 T
"Wooden Cmt Plug, 8 5/8""		1.00	EA	120.00	120.00
"Unit Mileage Chg (PU, cars one way)"		40.00	MI	3.19	127.50
Heavy Equipment Mileage		80.00	MI	5.25	420.00
"Proppant & Bulk Del. Chgs., per ton mil		344.00	EA	1.20	412.80
Depth Charge; 0-500'		1.00	EA	750.00	750.00
Blending & Mixing Service Charge		200.00	BAG	1.05	210.00
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
<i>71730 Cement Surface</i>					

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,704.15
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	171.19
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,875.34
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



PAGE	CUST NO	INVOICE DATE
1 of 1	1003562	12/26/2012
INVOICE NUMBER		
1718 - 91080895		

Pratt (620) 672-1201
 B ROBERTS RESOURCES INC
 I 2020 N TYLER RD STE 106
 L WICHITA
 L KS US 67212
 T
 O **ATTN:** ACCOUNTS PAYABLE

J **LEASE NAME** Thom A 2-28
 O
 B **LOCATION**
 S **COUNTY** Barber
 I **STATE** KS
 T **JOB DESCRIPTION** Cement-New Well Casing/Pi
 E **JOB CONTACT**

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40548160	20920		Net - 30 days	01/25/2013	
For Service Dates: 12/22/2012 to 12/22/2012					
0040548160					
171807420A Cement-New Well Casing/Pi 12/22/2012 Cement 5 1/2" 2 Stage Longstring					
AA2 Cement		440.00	EA	12.75	5,610.01 T
60/40 POZ		30.00	EA	9.00	270.00 T
Celloflake		111.00	EA	2.78	308.03 T
C-41P		83.00	EA	3.00	249.00 T
Salt		1,999.00	EA	0.37	749.62 T
Cement Friction Reducer		125.00	EA	4.50	562.50 T
C-44		414.00	EA	3.86	1,599.07 T
FLA-322		207.00	EA	5.62	1,164.37 T
Gilsonite		2,201.00	EA	0.50	1,106.00 T
"Two Stage Cement Collar, 5 1/2" (Red)"		1.00	EA	4,575.00	4,575.00
"5 1/2" Latch Down Plug & Assembly (Red)		1.00	EA	637.50	637.50
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	270.00	270.00
"Turbolizer, 5 1/2" (Blue)"		20.00	EA	82.50	1,650.00
"5 1/2" Basket (Blue)"		2.00	EA	217.50	435.00
"Unit Mileage Chg (PU, cars one way)"		40.00	MI	3.19	127.50
Heavy Equipment Mileage		80.00	MI	5.25	420.00
"Proppant & Bulk Del. Chgs., per ton mil		880.00	EA	1.20	1,056.00
Depth Charge; 2001'-3000'		1.00	EA	1,350.00	1,350.00
Depth Charge; 4001'-5000'		1.00	EA	1,890.00	1,890.00
Blending & Mixing Service Charge		470.00	BAG	1.05	493.50
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

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	24,841.85
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	848.16
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	25,690.01
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

Customer ROBERTS-Resources	Lease No.	Date 12-22-12
Lease THOM A	Well # 2-28	
Field Order # 7420	Station PRATT KS	Casing 5 1/2
Type Job CNW 2 STAGE LONG STAG	Depth 4507'	County BARBER
	Formation	State KS
		Legal Description 28-31-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft	Acid			RATE	PRESS	ISIP
5 1/2	2 3/8	2836 - 67	136					
Depth	Depth	From	To	Pre Pad	Max			5 Min.
4507								
Volume	Volume	From	To	Pad	Min			10 Min.
106.5								
Max Press	Max Press	From	To	Frac	Avg			15 Min.
3000								
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
PC								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load
4405								

Customer Representative	Station Manager DAVE SCOTT	Treater Robert Sullivan
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Service Units	37900	33708	20920	19886	21010	70959	17916				
Driver Names	Sullivan	m/saw	Callaway	Callaway							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:30 Am					ON loc softy meding
					RUN 107 STS 15.5 - 5 1/2 150
					DV TOOL @ 2836'
9:20					CASING ON BOTTOM
9:30					Hook Rig CIRC.
10:35	150		73	4.5	ST SQUANDER cont 25SK AN
					Fail 275st AN @ 1520ft
				5.	cont mix'd shut down with pump - long
					LOAD Plug
			40	6	St Dip w H²⁰
			67		St mud
	300				LIFT PG.
	650			4	SLOW RPTO
11:15	1800		106.5		Plug down) FLOAT HOLD
11:25					DROP OPENING OART
11:35	800				OPEN D.V
11:40					circ w Rig
					Bottom Stage Complete

Customer <i>Roberts-Res.</i>		Lease No.		Date	
Lease <i>THOM A</i>		Well # <i>2-25</i>		<i>12-22-12</i>	
Field Order # <i>7420</i>	Station <i>PRAT # 15</i>	Casing <i>5/2</i>	Depth <i>2836</i>	County <i>BARBER</i>	State <i>KS</i>
Type Job <i>CNW</i>			Formation	Legal Description <i>28-31-13</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>5 7/8</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>2836</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>67</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>1500</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>2836</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<i>TOP STAGE 2836'</i>
<i>1:35</i>	<i>200</i>			<i>4.5</i>	<i>At Scavenger cont 25 sk</i>
			<i>34</i>		<i>mix Tail 115 sk AA-2</i>
					<i>cont mixed. Shot down WAS, LING, PUNK</i>
					<i>Release Plug</i>
				<i>5.5</i>	<i>At Disp</i>
	<i>300</i>				<i>L.H. P.S.</i>
	<i>500</i>			<i>3.5</i>	<i>Slow Rate</i>
<i>2:00</i>	<i>1800</i>		<i>67</i>		<i>Plug down</i>
					<i>Close D.V Tool</i>
					<i>check flow BACK</i>
			<i>7</i>		<i>Plug R.H w/ 30</i>
					<i>5013 - Complete</i>
					<i>Thank you</i>

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

March 06, 2013

Kent Roberts
Roberts Resources, Inc.
2020 N TYLER RD, STE 106
WICHITA, KS 67212

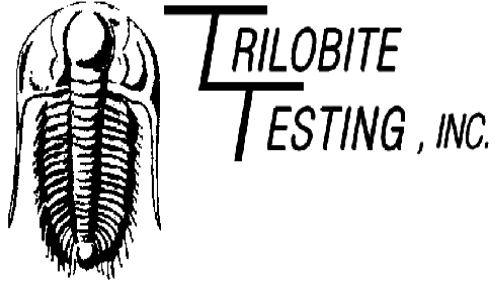
Re: ACO1
API 15-007-23972-00-00
Thom 'A' 2-28
NE/4 Sec.28-31S-13W
Barber County, Kansas

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,
Kent Roberts



DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Rd Ste 106
Wichita, KS 67212

ATTN: Kent Roberts

Thom A #2-28

28-31S-13W Barber,KS

Start Date: 2012.12.15 @ 12:27:34

End Date: 2012.12.15 @ 18:59:04

Job Ticket #: 49642 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.21 @ 15:54:12

Roberts Resources

28-31S-13W Barber,KS

Thom A #2-28

DST # 1

Indian Cave

2012.12.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources
2020 N Tyler Rd Ste 106
Wichita, KS 67212
ATTN: Kent Roberts

28-31S-13W Barber,KS

Thom A #2-28

Job Ticket: 49642

DST#: 1

Test Start: 2012.12.15 @ 12:27:34

GENERAL INFORMATION:

Formation: **Indian Cave**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:49

Time Test Ended: 18:59:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 2614.00 ft (KB) To 2650.00 ft (KB) (TVD)

Reference Elevations: 1601.00 ft (KB)

Total Depth: 2650.00 ft (KB) (TVD)

1592.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press @RunDepth: 234.88 psig @ 2615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.15 End Date: 2012.12.15

Last Calib.: 2012.12.15

Start Time: 12:27:35 End Time: 18:59:04

Time On Btm: 2012.12.15 @ 14:15:34

Time Off Btm: 2012.12.15 @ 17:20:34

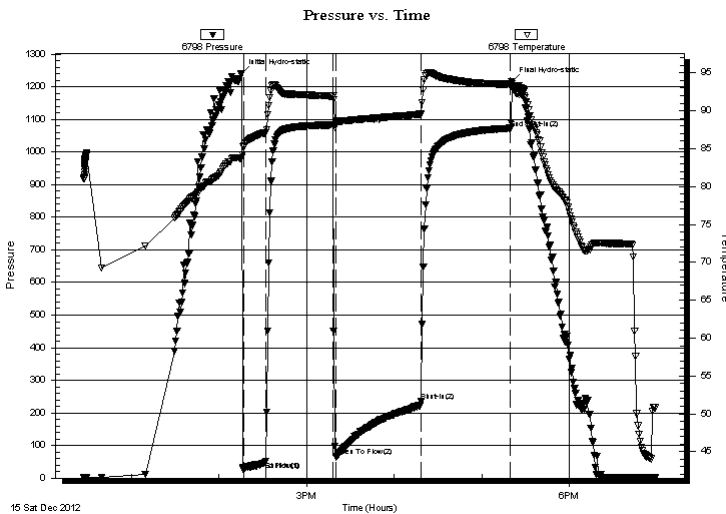
TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 12 minutes, TSTM

IS: No Blow Back

FF: Strong Blow , BOB & GTS Immediate, Gauged Gas

FSI: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1241.09	83.77	Initial Hydro-static
2	25.60	85.18	Open To Flow (1)
17	51.22	87.10	Shut-In(1)
63	1082.66	91.93	End Shut-In(1)
65	65.58	88.47	Open To Flow (2)
123	234.88	89.57	Shut-In(2)
185	1072.63	93.49	End Shut-In(2)
185	1215.06	93.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2413 GIP	0.00
200.00	GCM 15%G 85%M	1.74

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	56.00	111.68
Last Gas Rate	0.25	140.00	244.94
Max. Gas Rate	0.25	140.00	244.94



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49642

DST#: 1

ATTN: Kent Roberts

Test Start: 2012.12.15 @ 12:27:34

Tool Information

Drill Pipe:	Length: 2496.00 ft	Diameter: 3.80 inches	Volume: 35.01 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume: 35.59 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	2614.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	36.00 ft				
Tool Length:	63.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			2592.00	
Hydraulic tool	5.00			2597.00	
Jars	5.00			2602.00	
Safety Joint	2.00			2604.00	
Packer	5.00			2609.00	27.00 Bottom Of Top Packer
Packer	5.00			2614.00	
Stubb	1.00			2615.00	
Recorder	0.00	6798	Inside	2615.00	
Recorder	0.00	8367	Outside	2615.00	
Perforations	32.00			2647.00	
Bullnose	3.00			2650.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49642

DST#: 1

ATTN: Kent Roberts

Test Start: 2012.12.15 @ 12:27:34

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: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2413 GIP	0.000
200.00	GCM 15%G 85%M	1.740

Total Length: 200.00 ft

Total Volume: 1.740 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49642

DST#: 1

ATTN: Kent Roberts

Test Start: 2012.12.15 @ 12:27:34

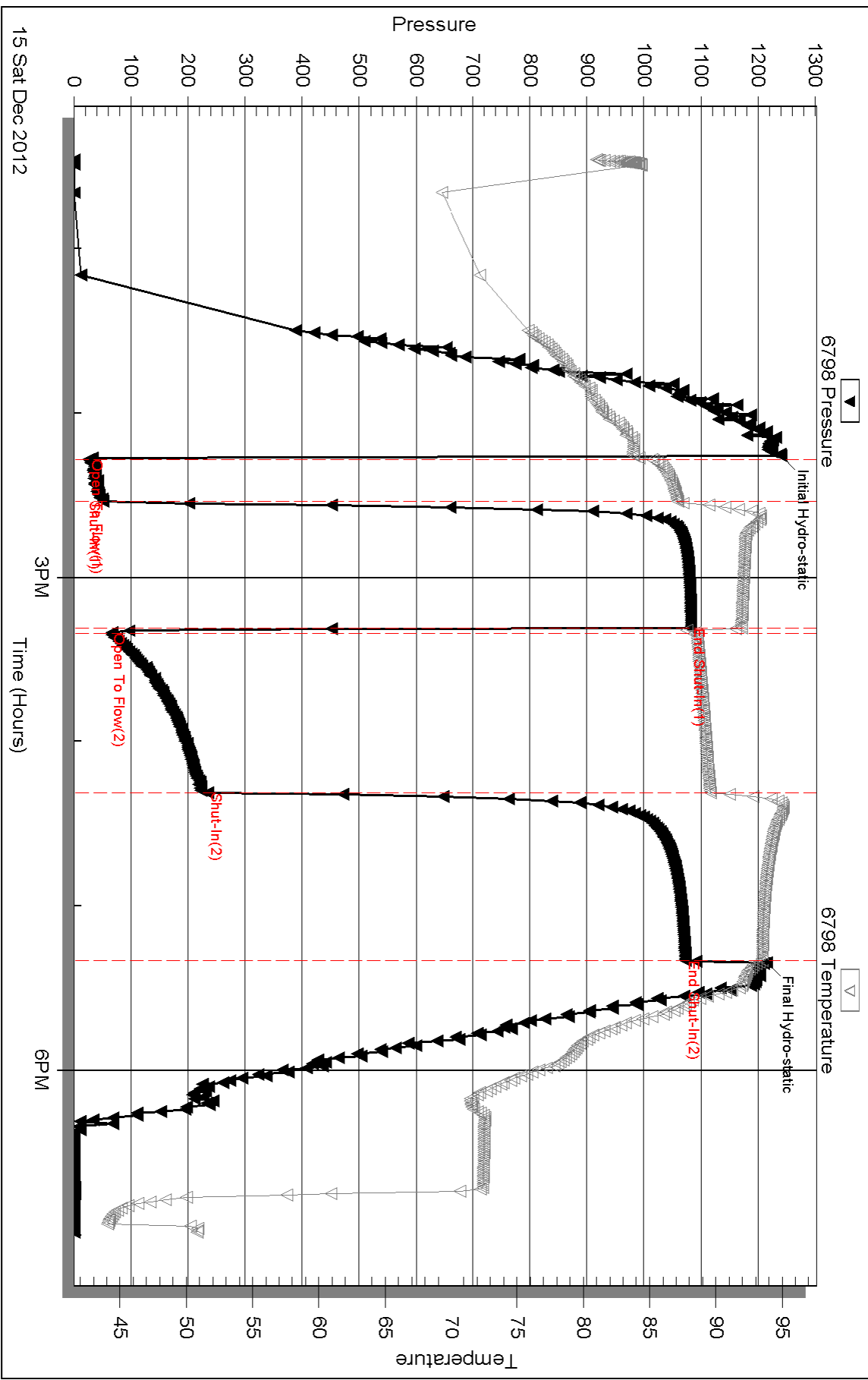
Gas Rates Information

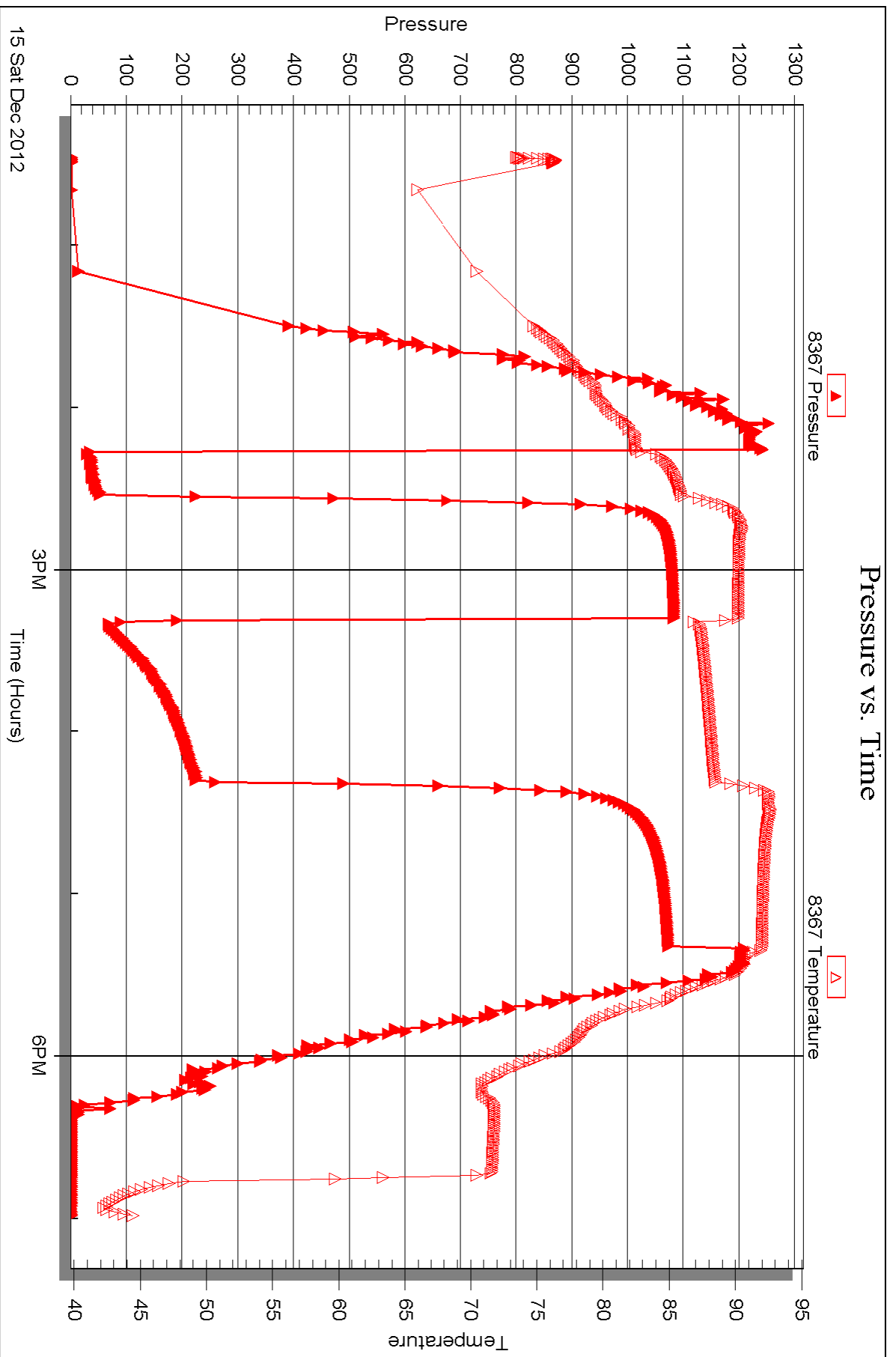
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

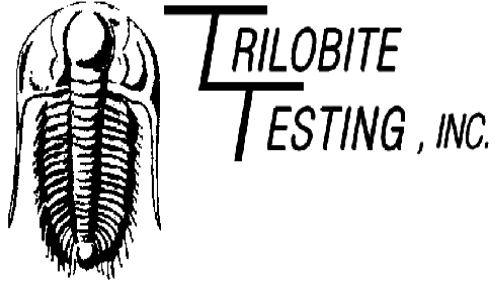
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	56.00	111.68
2	10	0.25	56.00	111.68
2	20	0.25	82.00	152.93
2	30	0.25	110.00	197.35
2	40	0.25	130.00	229.08
2	50	0.25	140.00	244.94

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Rd Ste 106
Wichita, KS 67212

ATTN: Kent Roberts

Thom A #2-28

28-31S-13W Barber,KS

Start Date: 2012.12.17 @ 11:17:24

End Date: 2012.12.17 @ 18:25:09

Job Ticket #: 49643 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.21 @ 15:53:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Roberts Resources
 2020 N Tyler Rd Ste 106
 Wichita, KS 67212
 ATTN: Kent Roberts

28-31S-13W Barber, KS

Thom A #2-28

Job Ticket: 49643

DST#: 2

Test Start: 2012.12.17 @ 11:17:24

GENERAL INFORMATION:

Formation: **Topeka "Deer Creek"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:09:39

Time Test Ended: 18:25:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: **3362.00 ft (KB) To 3392.00 ft (KB) (TVD)**

Total Depth: 3392.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1601.00 ft (KB)

1592.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 869.90 psig @ 3363.00 ft (KB)

Start Date: 2012.12.17

End Date: 2012.12.17

Start Time: 11:17:25

End Time: 18:25:09

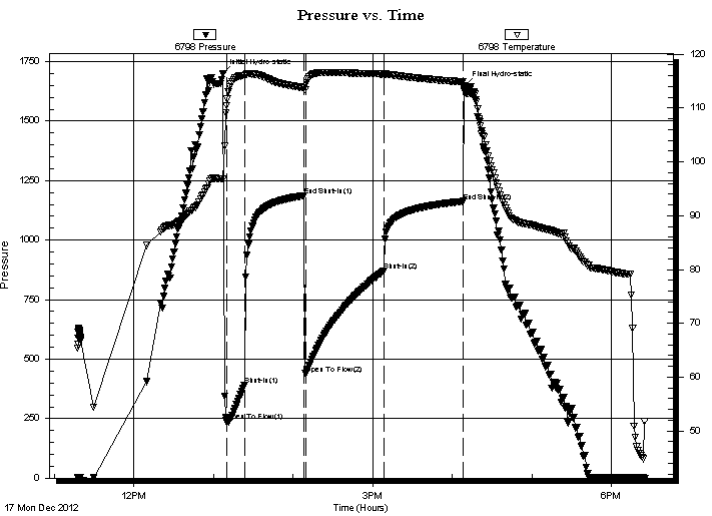
Capacity: 8000.00 psig

Last Calib.: 2012.12.17

Time On Btm: 2012.12.17 @ 13:07:09

Time Off Btm: 2012.12.17 @ 16:09:24

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
 IS: BOB Blow Back in 9 minutes
 FF: Strong Blow , BOB & GTS in 1 minute, TSTM
 FS: BOB Blow Back in 7 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.86	96.84	Initial Hydro-static
3	240.55	110.50	Open To Flow (1)
16	390.40	116.05	Shut-In(1)
61	1186.63	113.77	End Shut-In(1)
62	439.19	113.48	Open To Flow (2)
121	869.90	116.32	Shut-In(2)
182	1163.05	114.88	End Shut-In(2)
183	1649.27	113.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1501 GIP	0.00
930.00	Water	11.98
186.00	OMCW 5%O 5%M 90%W	2.61
434.00	GSY MOCW 30%G 10%M 28%O 32%W	6.09
310.00	GSY OMCW 30%G 12%O 24%M 34%W	4.35

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49643

DST#: 2

ATTN: Kent Roberts

Test Start: 2012.12.17 @ 11:17:24

Tool Information

Drill Pipe:	Length: 3244.00 ft	Diameter: 3.80 inches	Volume: 45.50 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 46.08 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3362.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			3340.00	
Hydraulic tool	5.00			3345.00	
Jars	5.00			3350.00	
Safety Joint	2.00			3352.00	
Packer	5.00			3357.00	27.00 Bottom Of Top Packer
Packer	5.00			3362.00	
Stubb	1.00			3363.00	
Recorder	0.00	6798	Inside	3363.00	
Recorder	0.00	8367	Outside	3363.00	
Perforations	26.00			3389.00	
Bullnose	3.00			3392.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49643

DST#: 2

ATTN: Kent Roberts

Test Start: 2012.12.17 @ 11:17:24

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:

165000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 11.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	1501 GIP	0.000
930.00	Water	11.980
186.00	OMCW 5%O 5%M 90%W	2.609
434.00	GSY MOCW 30%G 10%M 28%O 32%W	6.088
310.00	GSY OMCW 30%G 12%O 24%M 34%W	4.348

Total Length: 1860.00 ft Total Volume: 25.025 bbl

Num Fluid Samples: 0

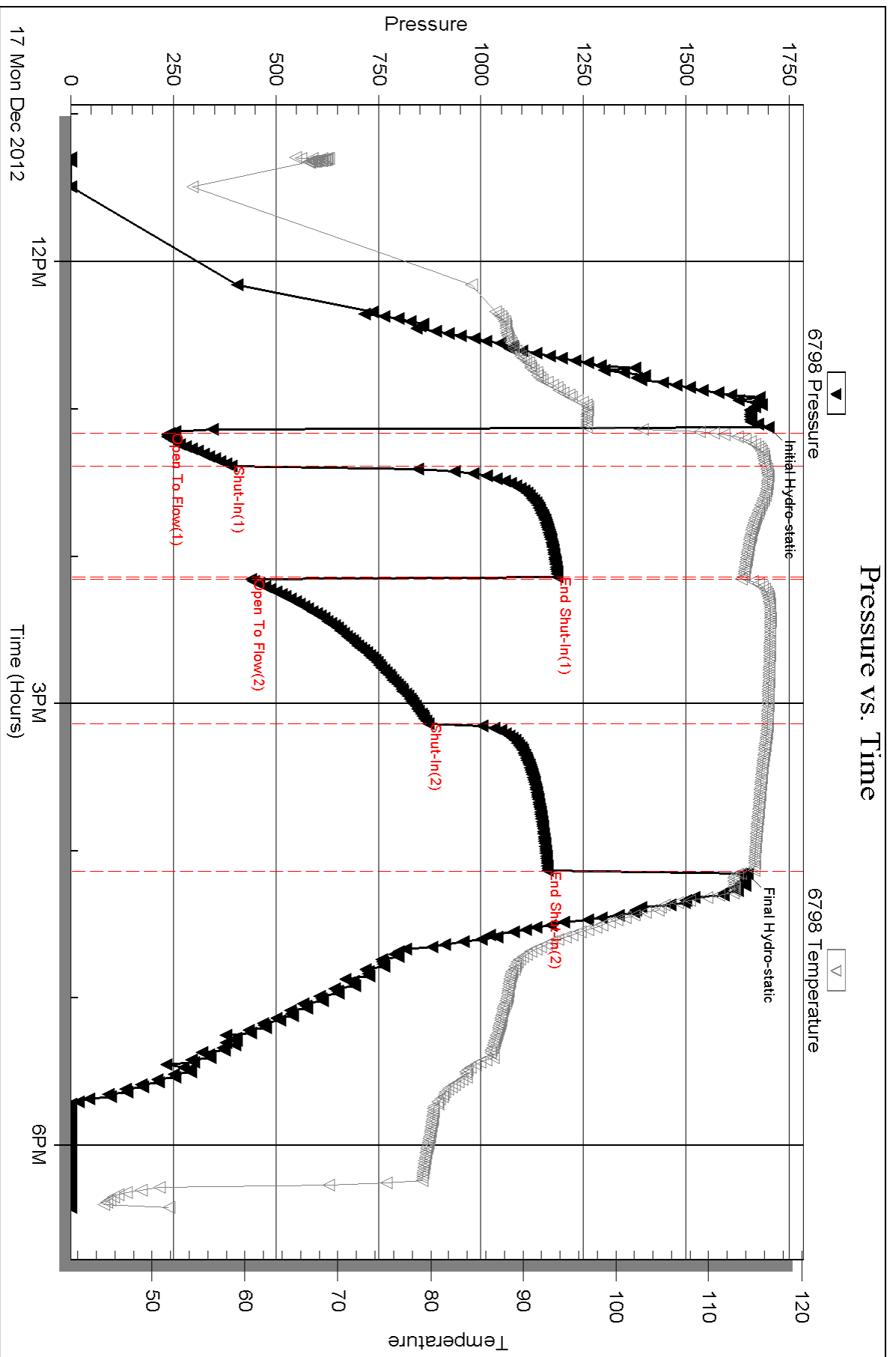
Num Gas Bombs: 0

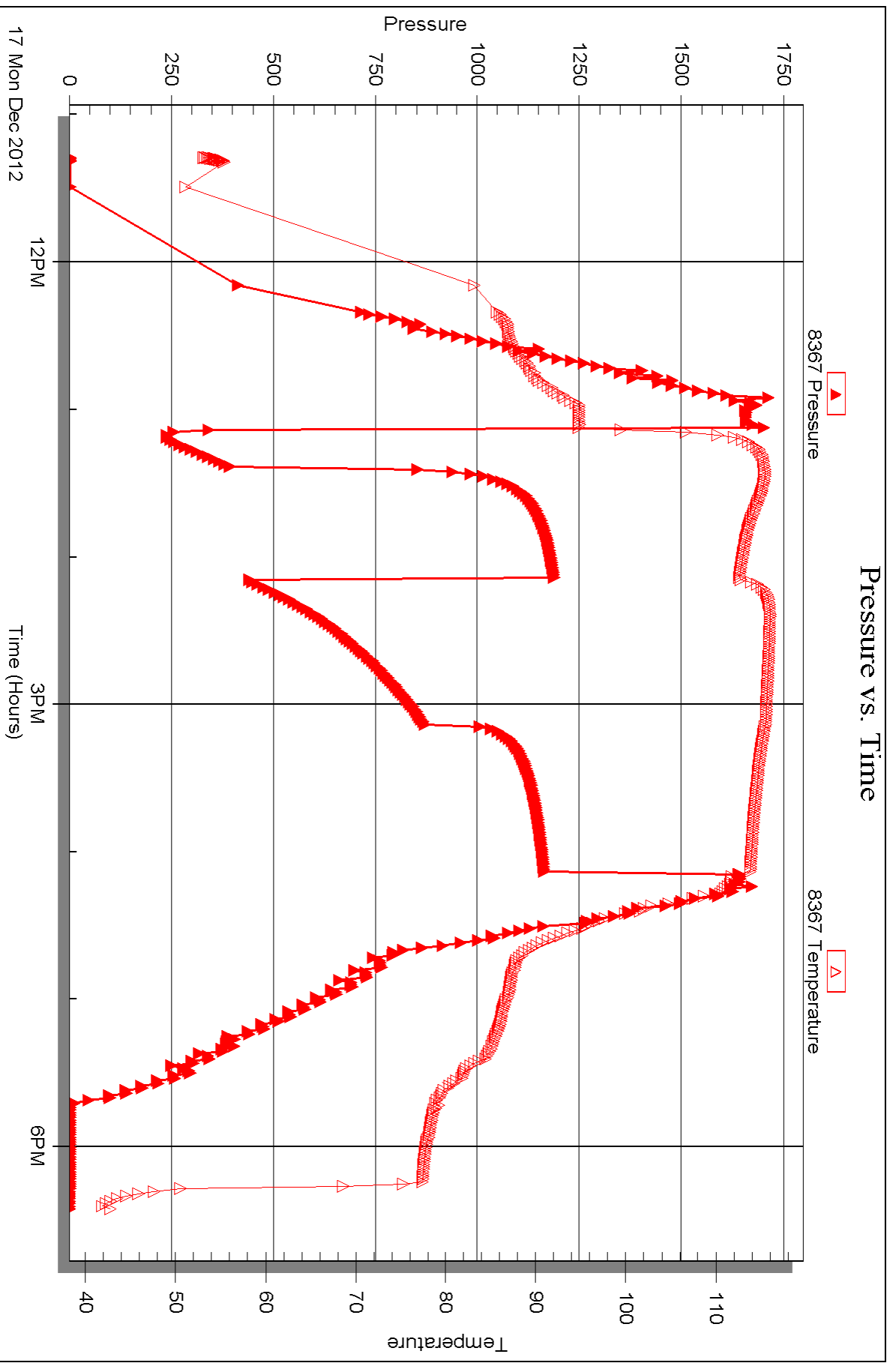
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .075 @ 55 degrees







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Rd Ste 106
Wichita, KS 67212

ATTN: Kent Roberts

Thom A #2-28

28-31S-13W Barber,KS

Start Date: 2012.12.18 @ 12:02:49

End Date: 2012.12.18 @ 16:47:19

Job Ticket #: 49644 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.21 @ 15:52:54

Roberts Resources

28-31S-13W Barber,KS

Thom A #2-28

DST # 3

Upper Douglas Sand

2012.12.18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources
2020 N Tyler Rd Ste 106
Wichita, KS 67212
ATTN: Kent Roberts

28-31S-13W Barber,KS

Thom A #2-28

Job Ticket: 49644

DST#: 3

Test Start: 2012.12.18 @ 12:02:49

GENERAL INFORMATION:

Formation: **Upper Douglas Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:46:49

Time Test Ended: 16:47:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: 3604.00 ft (KB) To 3642.00 ft (KB) (TVD)

Reference Elevations: 1601.00 ft (KB)

Total Depth: 3642.00 ft (KB) (TVD)

1592.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press @ RunDepth: 86.81 psig @ 3605.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.18

End Date:

2012.12.18

Last Calib.:

2012.12.18

Start Time: 12:02:50

End Time:

16:47:19

Time On Btm:

2012.12.18 @ 13:46:19

Time Off Btm:

2012.12.18 @ 15:17:49

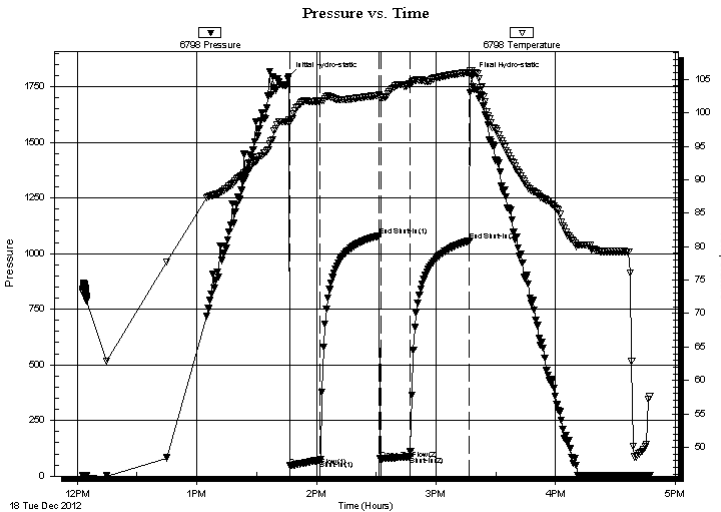
TEST COMMENT: IF: Weak Blow , Built to 3 inches

IS: No Blow Back

FF: Weak 1/2 inch Blow

FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.99	98.97	Initial Hydro-static
1	46.22	98.73	Open To Flow (1)
16	71.89	101.70	Shut-In(1)
46	1080.10	102.64	End Shut-In(1)
46	77.20	102.34	Open To Flow (2)
61	86.81	104.34	Shut-In(2)
91	1057.35	106.06	End Shut-In(2)
92	1796.26	106.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud	0.62

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49644

DST#: 3

ATTN: Kent Roberts

Test Start: 2012.12.18 @ 12:02:49

Tool Information

Drill Pipe:	Length: 3465.00 ft	Diameter: 3.80 inches	Volume: 48.60 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 49.18 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3604.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	65.00 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			3582.00	
Hydraulic tool	5.00			3587.00	
Jars	5.00			3592.00	
Safety Joint	2.00			3594.00	
Packer	5.00			3599.00	27.00 Bottom Of Top Packer
Packer	5.00			3604.00	
Stubb	1.00			3605.00	
Recorder	0.00	6798	Inside	3605.00	
Recorder	0.00	8367	Outside	3605.00	
Perforations	34.00			3639.00	
Bullnose	3.00			3642.00	38.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49644

DST#: 3

ATTN: Kent Roberts

Test Start: 2012.12.18 @ 12:02:49

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: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud	0.617

Total Length: 120.00 ft Total Volume: 0.617 bbl

Num Fluid Samples: 0

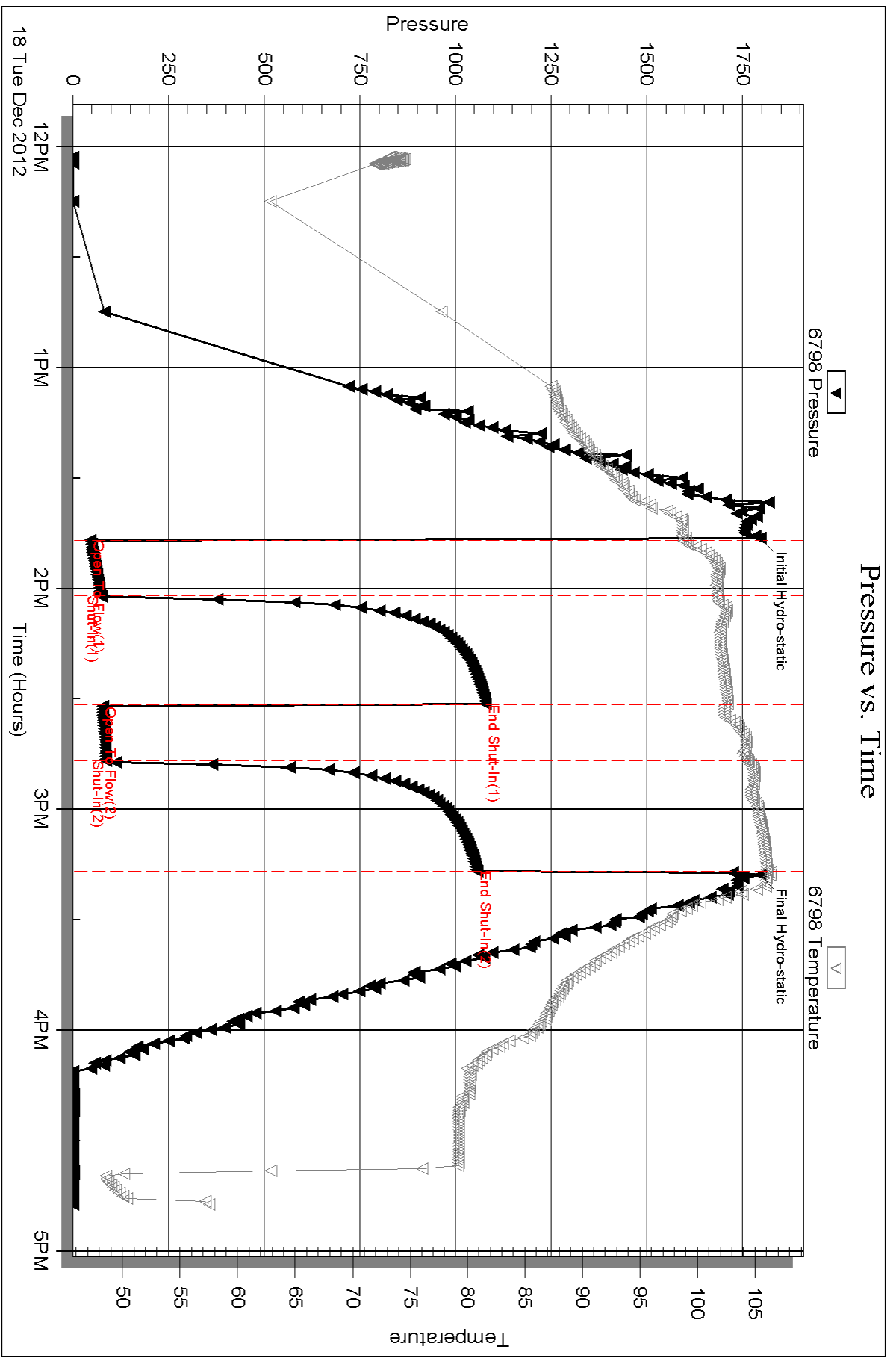
Num Gas Bombs: 0

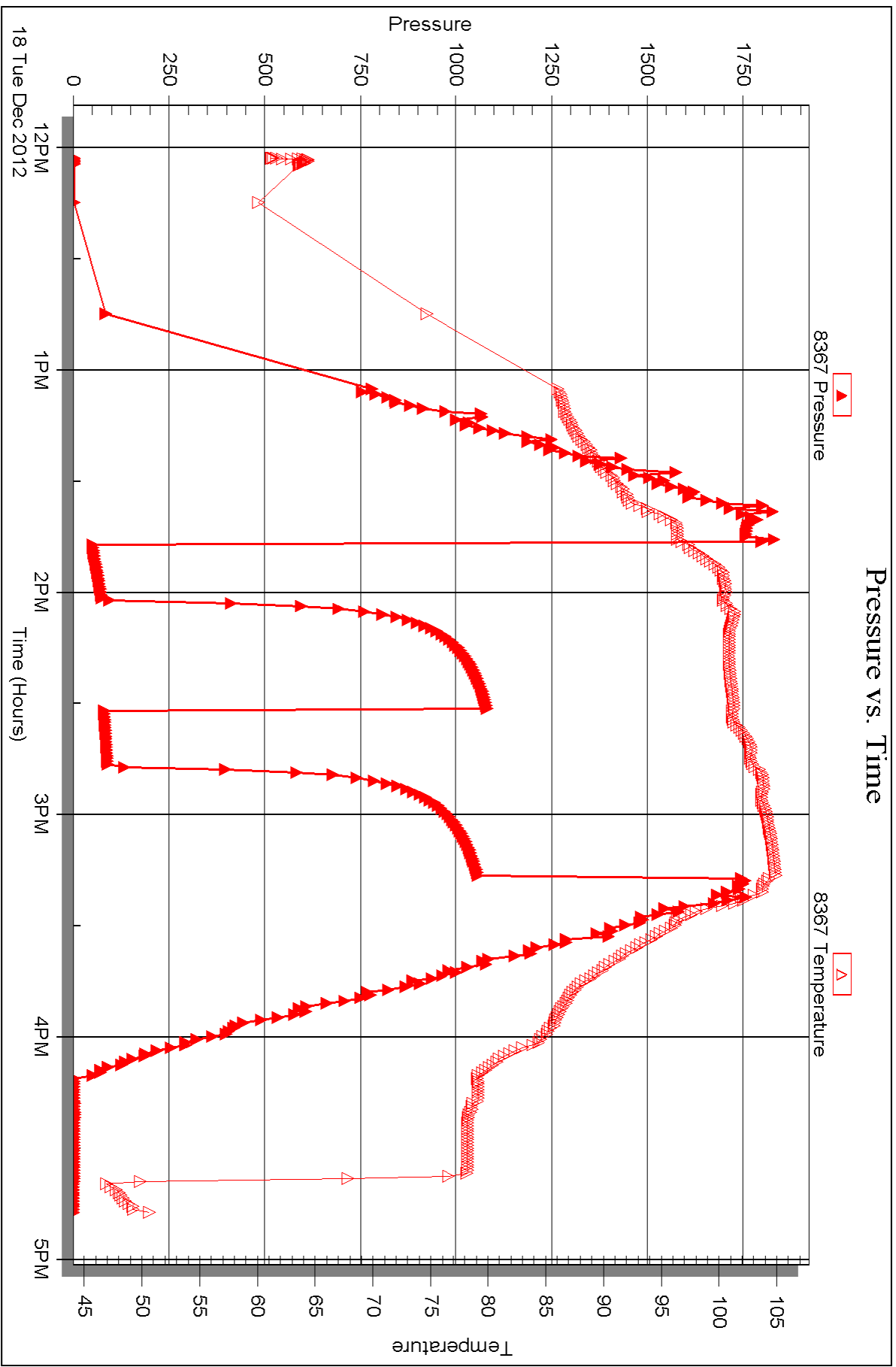
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Roberts Resources**

2020 N Tyler Rd Ste 106
Wichita, KS 67212

ATTN: Kent Roberts

Thom A #2-28

28-31S-13W Barber,KS

Start Date: 2012.12.20 @ 08:23:33

End Date: 2012.12.20 @ 15:59:33

Job Ticket #: 49645 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.12.21 @ 15:52:00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources
2020 N Tyler Rd Ste 106
Wichita, KS 67212
ATTN: Kent Roberts

28-31S-13W Barber,KS

Thom A #2-28

Job Ticket: 49645

DST#: 4

Test Start: 2012.12.20 @ 08:23:33

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:51:18
 Time Test Ended: 15:59:33
 Interval: **4250.00 ft (KB) To 4264.00 ft (KB) (TVD)**
 Total Depth: 4264.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1601.00 ft (KB)
 1592.00 ft (CF)
 KB to GR/CF: 9.00 ft

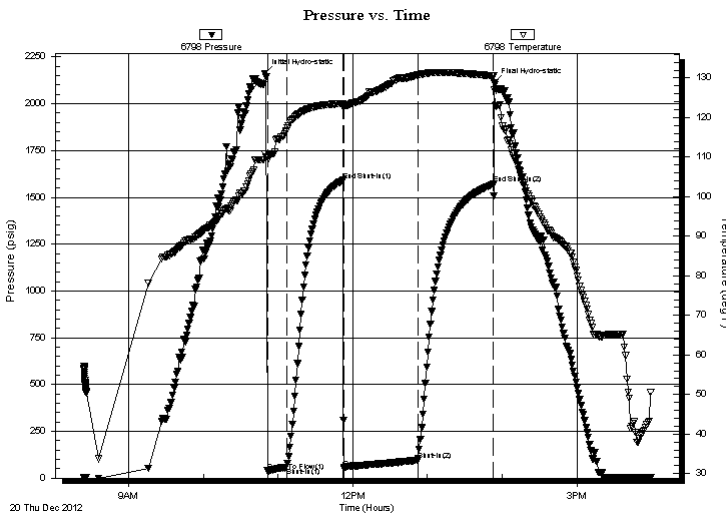
Serial #: 6798

Inside

Press @ Run Depth: 94.55 psig @ 4251.00 ft (KB)
 Start Date: 2012.12.20 End Date: 2012.12.20
 Start Time: 08:23:34 End Time: 15:59:33
 Capacity: 8000.00 psig
 Last Calib.: 2012.12.20
 Time On Btm: 2012.12.20 @ 10:49:18
 Time Off Btm: 2012.12.20 @ 13:53:48

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
 IS: No Blow back
 FF: Strong Blow , BOB in 2 minutes
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.25	110.89	Initial Hydro-static
2	38.32	109.96	Open To Flow (1)
18	57.18	116.64	Shut-In(1)
63	1590.97	123.56	End Shut-In(1)
64	50.77	123.05	Open To Flow (2)
123	94.55	130.78	Shut-In(2)
184	1570.17	130.51	End Shut-In(2)
185	2111.71	127.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2052 GIP	0.00
59.00	Water	0.29
58.00	SOMCW 5%O 37%M 58%W	0.29
63.00	OWCM 12%O 34%W 54%M	0.88

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49645

DST#: 4

ATTN: Kent Roberts

Test Start: 2012.12.20 @ 08:23:33

Tool Information

Drill Pipe:	Length: 4118.00 ft	Diameter: 3.80 inches	Volume: 57.76 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 58.34 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	4250.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	41.00 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			4228.00	
Hydraulic tool	5.00			4233.00	
Jars	5.00			4238.00	
Safety Joint	2.00			4240.00	
Packer	5.00			4245.00	27.00 Bottom Of Top Packer
Packer	5.00			4250.00	
Stubb	1.00			4251.00	
Recorder	0.00	6798	Inside	4251.00	
Recorder	0.00	8367	Outside	4251.00	
Perforations	10.00			4261.00	
Bullnose	3.00			4264.00	14.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources

28-31S-13W Barber,KS

2020 N Tyler Rd Ste 106
Wichita, KS 67212

Thom A #2-28

Job Ticket: 49645

DST#: 4

ATTN: Kent Roberts

Test Start: 2012.12.20 @ 08:23:33

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: 105000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	2052 GIP	0.000
59.00	Water	0.290
58.00	SOMCW 5%O 37%M 58%W	0.285
63.00	OWCM 12%O 34%W 54%M	0.884

Total Length: 180.00 ft Total Volume: 1.459 bbl

Num Fluid Samples: 0

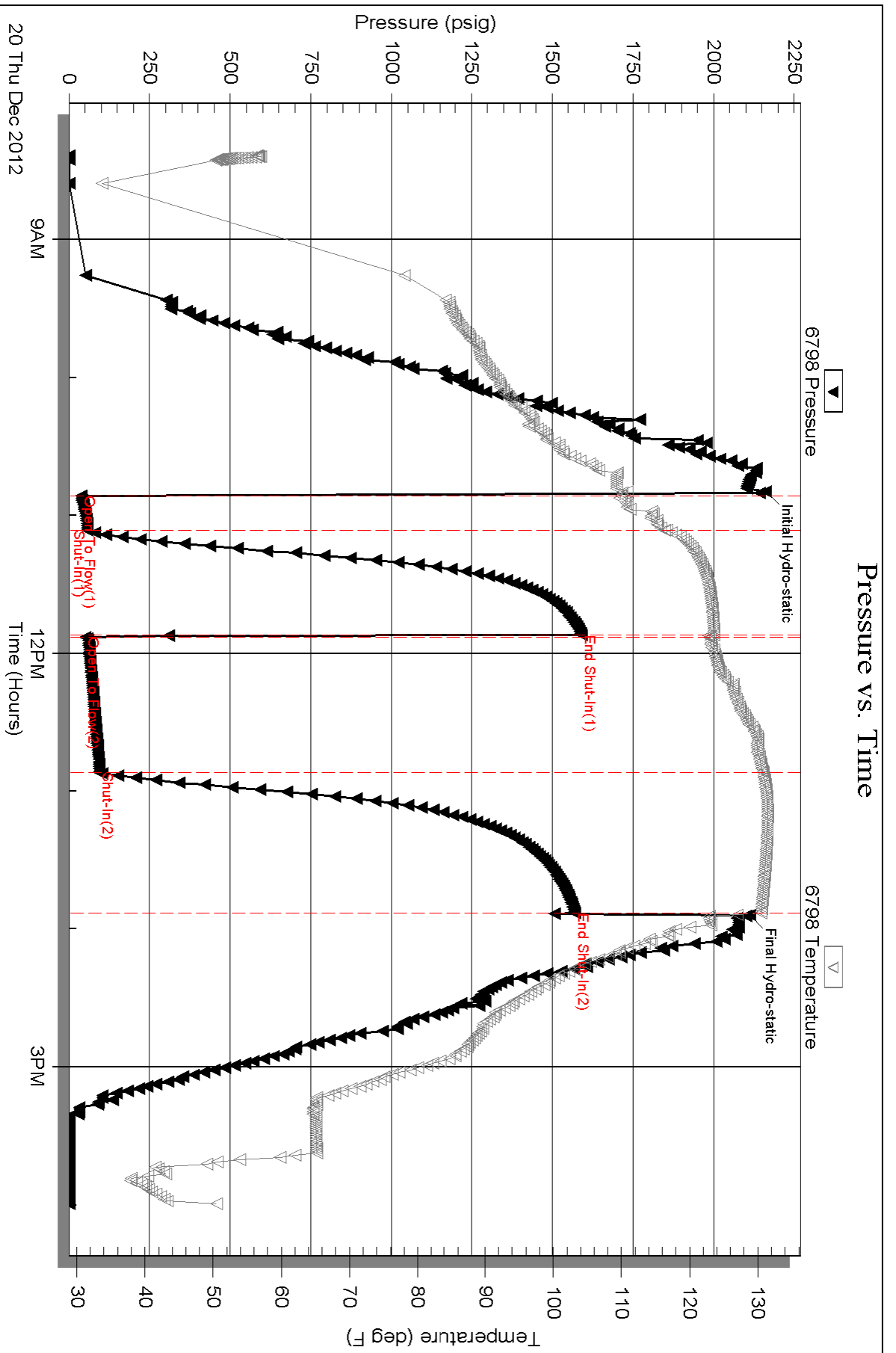
Num Gas Bombs: 0

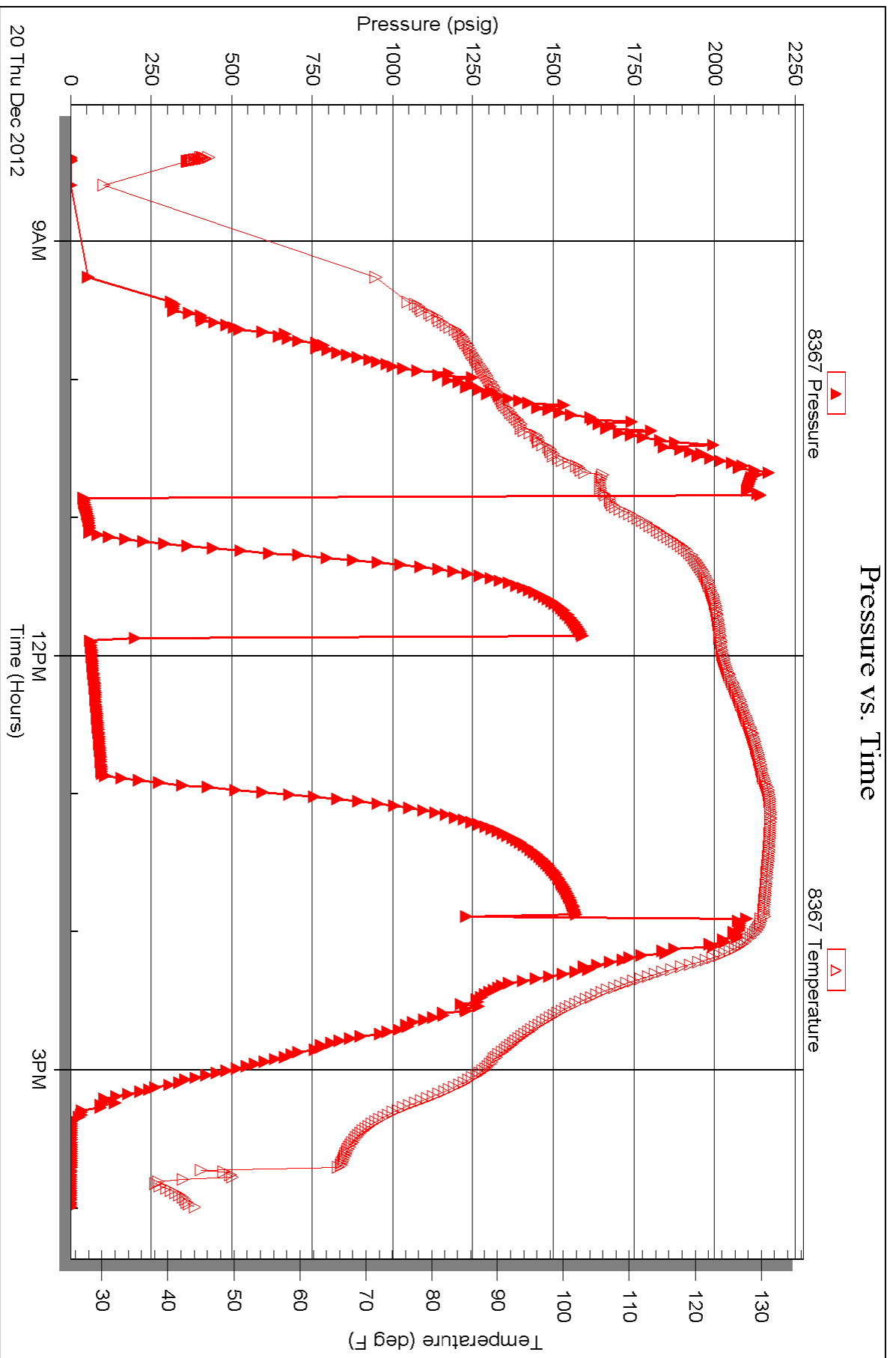
Serial #:

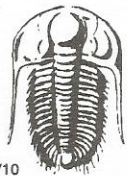
Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .12 @ 44 degrees







TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. **49642**

4/10

Well Name & No. Thom A 2-28 Test No. 1 Date 12/15/12
 Company ROBERTS RESOURCES Elevation 1601 KB 1592 GL
 Address 2020 N. Tyler Rd Ste 106 Wichita, KS 67212
 Co. Rep / Geo. Kent Roberts Rig Landmark 6
 Location: Sec. 28 Twp. 31S Rge. 13W Co. Barber State KS

Interval Tested 2614 - 2650 Zone Tested Indian Cave
 Anchor Length 36 Drill Pipe Run 2496 Mud Wt. 9.0
 Top Packer Depth 2609 Drill Collars Run 117 Vis 44
 Bottom Packer Depth 2614 Wt. Pipe Run 0 WL 9.6
 Total Depth 2650 Chlorides 6000 ppm System LCM

Blow Description IF: strong Blow, BOB in 30 seconds, GTS in 12 minutes, TSTM

ISI: NO Blow Back

FT: strong Blow, BOB + GTS immediate, gauged Gas

FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2413</u>	<u>GIP</u>				
<u>200</u>	<u>GCM</u>	<u>15</u>			<u>85</u>
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 93° Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 1241 Test 1150 T-On Location 11:15
 (B) First Initial Flow 26 Jars 250 T-Started 12:37
 (C) First Final Flow 51 Safety Joint 75 T-Open 14:16
 (D) Initial Shut-In 1083 Circ Sub _____ T-Pulled 17:19
 (E) Second Initial Flow 66 Hourly Standby _____ T-Out 18:59
 (F) Second Final Flow 235 Mileage 60 93 Comments _____
 (G) Final Shut-In 1073 Sampler _____
 (H) Final Hydrostatic 1215 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1718
 Accessibility 150 MP/DST Disc't _____
 Sub Total 1718

Approved By Kent Roberts 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49643

Well Name & No. Thom A 2-28 Test No. 2 Date 12/17/12
 Company ROBERTS RESOURCES Elevation 1601 KB 1592 GL
 Address 2020 N. Tyler Rd Ste 106 Wichita, KS 67212
 Co. Rep / Geo. Kent Roberts Rig Landmark 6
 Location: Sec. 28 Twp. 31S Rge. 13W Co. Barber State KS

Interval Tested 3362 - 3392 Zone Tested Topeka "Dear Creek"
 Anchor Length 30 Drill Pipe Run 3244 Mud Wt. 9.4
 Top Packer Depth 3357 Drill Collars Run 117 Vis 47
 Bottom Packer Depth 3362 Wt. Pipe Run 0 WL 11.2
 Total Depth 3392 Chlorides 10,000 ppm System LCM

Blow Description IF: Strong Blow, BOB in 30 seconds

IST: BOB Blow Back in 9 minutes

FF: Strong Blow, BOB + GTS in 1 minute, TSTM

FST: BOB Blow Back in 7 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>1501</u>	<u>GIP</u>				
<u>310</u>	<u>GSY OMCW</u>	<u>30</u>	<u>12</u>	<u>34</u>	<u>24</u>
<u>434</u>	<u>GSY OMCW</u>	<u>30</u>	<u>28</u>	<u>32</u>	<u>10</u>
<u>186</u>	<u>OMCW</u>		<u>5</u>	<u>90</u>	<u>5</u>
<u>930</u>	<u>WATER</u>				

Rec Total 1860 BHT 115° Gravity NIC API RW 0.075@ 55 °F Chlorides 165000 ppm

(A) Initial Hydrostatic <u>1701</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:45</u>
(B) First Initial Flow <u>291</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:17</u>
(C) First Final Flow <u>390</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:09</u>
(D) Initial Shut-In <u>1187</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>16:08</u>
(E) Second Initial Flow <u>439</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:25</u>
(F) Second Final Flow <u>870</u>	<input checked="" type="checkbox"/> Mileage <u>60</u> 93	Comments
(G) Final Shut-In <u>1163</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1649</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>15</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>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1718</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1718</u>	

Approved By _____ 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49644

4/10

Well Name & No. Thom A 2-28 Test No. 3 Date 12/18/12
 Company Roberts Resources Elevation 1601 KB 1592 GL
 Address 2020 N. Tyler Rd Ste 106 Wichita, KS 67212
 Co. Rep / Geo. Kent Roberts Rig Landmark 6
 Location: Sec. 28 Twp. 31S Rge. 13W Co. Barber State KS

Interval Tested 3604 - 3642 Zone Tested Upper Douglas sand
 Anchor Length 38 Drill Pipe Run 3465 Mud Wt. 9.3
 Top Packer Depth 3599 Drill Collars Run 117 Vis 43
 Bottom Packer Depth 3604 Wt. Pipe Run 6 WL 12.8
 Total Depth 3642 Chlorides 11,000 ppm System LCM

Blow Description IF: weak Blow, Built to 3 inches
ISI: NO Blow Back
PF: weak 1/2 inch Blow
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>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 120 BHT 106 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic <u>1797</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>11:30</u>
(B) First Initial Flow <u>46</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:02</u>
(C) First Final Flow <u>72</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:46</u>
(D) Initial Shut-In <u>1080</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>15:16</u>
(E) Second Initial Flow <u>77</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>16:47</u>
(F) Second Final Flow <u>87</u>	<input checked="" type="checkbox"/> Mileage <u>(60)</u> 93	Comments
(G) Final Shut-In <u>1057</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1796</u>	<input type="checkbox"/> Straddle	
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1718</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1718</u>	

Approved By Kent Roberts Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49645

4/10

Well Name & No. Thom A 2-28 Test No. 4 Date 12/20/12
 Company Roberts Resources Elevation 1601 KB 1592 GL
 Address 2020 N. Tyler Rd Ste 106 Wichita, KS 67212
 Co. Rep / Geo. Kent Roberts Rig Landmark 6
 Location: Sec. 28 Twp. 31S Rge. 13W Co. Barber State KS

Interval Tested 4250 - 4264 Zone Tested Mississippi
 Anchor Length 14 Drill Pipe Run _____ Mud Wt. 9.5
 Top Packer Depth 4245 Drill Collars Run 117 Vis 51
 Bottom Packer Depth 4250 Wt. Pipe Run 0 WL 10.8
 Total Depth 4264 Chlorides 10,000 ppm System LCM _____

Blow Description IF: Strong Blow, BOB in 1 minute

ISI: NO Blow Back

FF: Strong Blow, BOB in 2 minutes

FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2052</u>	<u>GIP</u>				
<u>63</u>	<u>OWCM</u>		<u>12</u>	<u>34</u>	<u>54</u>
<u>58</u>	<u>SOMCW</u>		<u>5</u>	<u>58</u>	<u>37</u>
<u>59</u>	<u>WATER</u>				

Rec Total 180 BHT 130 Gravity N/C API RW .12 @ 44 ° F Chlorides 105,000 ppm

(A) Initial Hydrostatic <u>2162</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>08:00</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>08:23</u>
(C) First Final Flow <u>57</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:51</u>
(D) Initial Shut-In <u>1591</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>13:53</u>
(E) Second Initial Flow <u>51</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:59</u>
(F) Second Final Flow <u>95</u>	<input checked="" type="checkbox"/> Mileage <u>60</u> <u>93</u>	Comments _____
(G) Final Shut-In <u>1570</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2112</u>	<input type="checkbox"/> Straddle _____	

Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>508.33</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u>1d 15.25h</u>	Total <u>2326.33</u>
	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't _____
	Sub Total <u>1818</u>	

Approved By Kent Roberts

Our Representative _____

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