



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1187502  
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: \_\_\_\_\_

1187502

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

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

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

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

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

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

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

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

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

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Roberts Resources, Inc.
Well Name	Catlin 3-34
Doc ID	1187502

Tops

Name	Top	Datum
Onaga Shale	2657	-1040
Heebner	3592	-1975
Lansing	3771	-2154
Mississippi	4270	-2653
Viola	4531	-2914
Simpson Sand	4654	-3037
Arbuckle	Not Penetrated	
TD	4710	-3093



*Travel*

<b>PAGE</b> 1 of 1	<b>CUST NO</b> 1003562	<b>INVOICE DATE</b> 09/30/2013
<b>INVOICE NUMBER</b> 1718 - 91299279		

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** Catlin 3-34  
**O LOCATION**  
**B COUNTY** Barber  
**S STATE** KS  
**I JOB DESCRIPTION** Cement-New Well Casing/Pi  
**T JOB CONTACT**  
**E**

<b>JOB #</b> 40645828	<b>EQUIPMENT #</b> 27463	<b>PURCHASE ORDER NO.</b>	<b>TERMS</b> Net - 30 days	<b>DUE DATE</b> 10/30/2013
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	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 09/27/2013 to 09/27/2013</b>				
0040645828				
171809204A Cement-New Well Casing/Pi 09/27/2013				
<u>Cement 8 5/8, Surface</u>				
60/40 POZ	225.00	EA	8.04	1,808.77 T
Celloflake	57.00	EA	2.48	141.29 T
Calcium Chloride	582.00	EA	0.70	409.39 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	107.19	107.19
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	2.85	99.65
Heavy Equipment Mileage	70.00	MI	4.69	328.26
"Proppant & Bulk Del. Chgs., per ton mil	340.00	EA	1.07	364.44
Depth Charge; 0-500'	1.00	EA	669.92	669.92
Blending & Mixing Service Charge	225.00	BAG	0.94	211.02
Plug Container Util. Chg.	1.00	EA	167.48	167.48
"Service Supervisor, first 8 hrs on loc.	1.00	EA	117.24	117.24
			<b>71730</b>	

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	4,424.65
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	168.70
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	4,593.35
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		

Customer <i>Robert Resources Inc.</i>	Lease No.	Date <i>9-27-13</i>
Lease <i>CATIA</i>	Well # <i>3-34</i>	
Field Order # <i>9704</i>	Station <i>Pratt</i>	Casing <i>8 5/8</i>
Type Job <i>CNW S.P.</i>	Formation	Depth <i>309.73</i>
		County <i>BH, OK</i>
		State <i>KS</i>
		Legal Description <i>34-31-13</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid <i>225 SA 60/40</i>	RATE <i>27.5 gal</i>	PRESS <i>3000</i>	ISIP <i>1/4 # cr</i>	
Depth <i>309.73</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>19.73</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>300</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>289.73</i>	Packer Depth	From	To	Flush <i>18.5</i>	Gas Volume		Total Load	

Customer Representative <i>KEVIN ROBERTS</i>	Station Manager <i>KEVIN GORDLEY</i>	Treater <i>MIKE MATTAL</i>
Service Units <i>37216</i>	<i>27463</i>	<i>19826</i>
Driver Names <i>MATTAL</i>	<i>YOUNG</i>	<i>P. C. OR</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>9:15 am</i>					<i>ON LOCATION / SAFETY MEETING</i>
<i>11:10</i>					<i>RUN CSNG</i>
<i>12:25</i>					<i>CSNG ON BOTTOM</i>
<i>12:31</i>					<i>HOOK UP TO CSNG / DISCON CIRC W RIG</i>
<i>12:40</i>	<i>250</i>		<i>5</i>	<i>5</i>	<i>PUMP 5 BBL 400</i>
<i>12:42</i>	<i>250</i>		<i>50</i>	<i>5</i>	<i>MIX 225 SA 60/40</i>
<i>1:00</i>	<i>200</i>			<i>4</i>	<i>RELEASE PUMP, START DISPERSEMENT</i>
<i>1:05</i>	<i>200</i>		<i>18.5</i>		<i>PLUG DOWN</i>
					<i>10 BBLs run to bit</i>
					<i>CIRCULATION TIME 30%</i>
					<i>JOB COMPLETE</i>
					<i>THANK YOU</i>
					<i>MIKE MATTAL</i>



PAGE 1 of 1	CUST NO 1003562	INVOICE DATE 10/10/2013
INVOICE NUMBER <b>1718 - 91306775</b>		

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 Catlin 3-34  
 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
40649792	27463		Net - 30 days	11/09/2013

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 10/08/2013 to 10/08/2013</b>				
0040649792				
171809209A Cement-New Well Casing/Pi 10/08/2013 Cement 5 1/2" Longstring				
AA2 Cement	305.00	EA	11.39	3,473.96 T
C-41P	58.00	EA	2.68	155.44 T
Salt	1,394.00	EA	0.34	466.99 T
Cement Friction Reducer	87.00	EA	4.02	349.74 T
C-44	288.00	EA	3.45	993.74 T
FLA-322	144.00	EA	5.03	723.60 T
Super Flush II	500.00	EA	1.03	512.55 T
Gilsonite	1,525.00	EA	0.45	684.57 T
Claymax KCL Substitute	5.00	EA	23.45	117.25 T
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	2.85	99.66
Heavy Equipment Mileage	70.00	MI	4.69	328.30
"Proppant & Bulk Del. Chgs., per ton mil	504.00	EA	1.07	540.29
Depth Charge; 4001'-5000'	1.00	EA	1,688.40	1,688.40
Blending & Mixing Service Charge	305.00	BAG	0.94	286.09
Casing Swivel Rental	1.00	EA	134.00	134.00
Plug Container Util. Chg.	1.00	EA	167.50	167.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	117.25	117.25
"Latch Down Plug & Baffle, 5 1/2" (Blue)	1.00	EA	268.00	268.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	241.20	241.20
"Turbolizer, 5 1/2" (Blue)"	12.00	EA	73.70	884.40
"5 1/2" Basket (Blue)"	2.00	EA	194.30	388.60

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	12,621.53
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	534.67
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	13,156.20
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		

Customer ROBERTS RESOURCES INC.	Lease No.	Date 10-8-13
Lease CA1.0	Well # 3-34	
Field Order # 9209	Station Pratt	Casing 5 1/2
Type Job CON L.S.	Formation	Depth
		County Barber
		State KS
		Legal Description 24-31-13

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 3 1/2	Tubing Size	Shots/Ft		Acid Carf 305 SK AA 2	RATE .2% @ 1000 PSI	PRESS 100	ISIP 5.07	3% CAR
Depth 4705	Depth	From	To	Pre Pad .12% 94.2 BLK .5%	Max KIP-322 5#	SK 5150	5 Min.	
Volume 11.98	Volume	From	To	Pad	Min		10 Min.	
Max Press 1500	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 4663	Packer Depth	From	To	Flush 111	Gas Volume		Total Load	

Customer Representative KEVIN ROBERTS	Station Manager KEVIN GOUDICY	Treater MIKE MATTIA
Service Units 37586	27463	19826 19860
Driver Names MATHAI	KUMAR	PIERSON

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:45 PM					ON LOCATION / SAFETY MEETING
8:45					RUN JTS OF 3 1/2 15,5LB CSNG
					TUBING ON 1, 3, 6, 8, 10, 12, 15, 17, 22, 26, 28, 31
					BASED ON BOTTOM OF 7, 16
11:00					ON BOTTOM
11:30					HOOK UP TO PUMP / BREAK W/ 10 W 809
12:00 AM					STOP CIRCULATING, HOOK UP TO PUMP
12:10	100		5	3	5 BBL H2O
12:12	300		12	5	12 BBL SUPER FLUSH 11 PUMP
12:15	300		5	5	PUMP 5 BBL H2O
12:17	300		70	5	MIX 275 SK AA 2
12:30					WASH PUMP + LINE / RELEASE PLUG
12:30	250			5	START DISPLACEMENT W 2% KCL
12:50	500		85	4	SLOW RATE
12:56	800		100	3.5	3.5 BPM @ 800 PSI / STOP CIRCULATING
1:00	900		111		PLUG DOWN / H-10
1:10					PLUG RAT HOLD
					CIRCULATION TRIM JOB
					JOB COMPLETE
					THANK YOU
					MIKE MATTIA



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**34-31S-13W Barber**  
**3-34 Catlin**  
Job Ticket: 52504      **DST#: 1**  
Test Start: 2013.10.02 @ 05:29:13

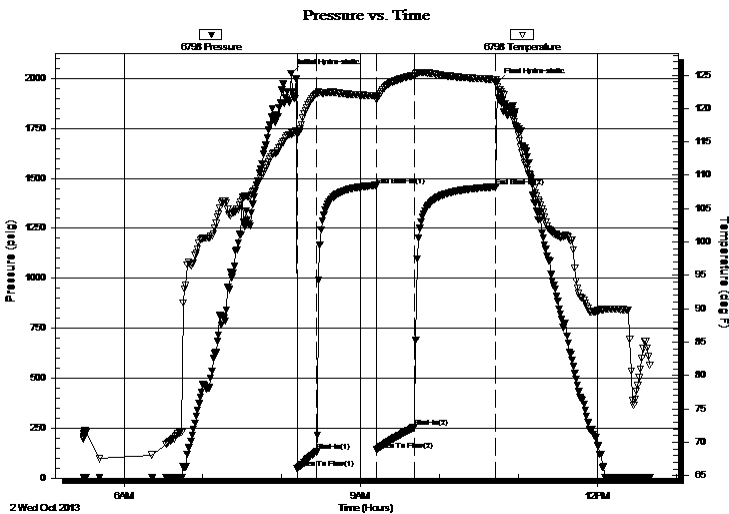
## GENERAL INFORMATION:

Formation: **Drum**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:11:43  
Time Test Ended: 12:39:58  
Interval: **3987.00 ft (KB) To 4017.00 ft (KB) (TVD)**  
Total Depth: 4017.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Leal Cason  
Unit No: 45  
Reference Elevations: 1617.00 ft (KB)  
1609.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6798      Inside**  
Press @ Run Depth: 254.93 psig @ 3988.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.02      End Date: 2013.10.02      Last Calib.: 2013.10.02  
Start Time: 05:29:14      End Time: 12:39:58      Time On Btm: 2013.10.02 @ 08:06:58  
Time Off Btm: 2013.10.02 @ 10:43:58

**TEST COMMENT:** IF: Strong Blow , BOB in 6 minutes  
IS: Weak Surface Blow Back  
FF: Fair Blow , BOB in 12 minutes  
FS: No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2025.62	116.06	Initial Hydro-static
5	46.88	116.26	Open To Flow (1)
20	132.20	122.22	Shut-In(1)
65	1465.07	121.90	End Shut-In(1)
66	142.14	121.30	Open To Flow (2)
95	254.93	124.94	Shut-In(2)
156	1457.86	124.33	End Shut-In(2)
157	1977.63	123.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
368.00	Water	3.23
124.00	MCW 10%M 90%W	1.74
62.00	OMCW 12%O 30%M 58%W	0.87

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52504

**DST#: 1**

ATTN: Kent Roberts

Test Start: 2013.10.02 @ 05:29:13

## 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
368.00	Water	3.231
124.00	MCW 10%M 90%W	1.739
62.00	OMCW 12%O 30%M 58%W	0.870

Total Length: 554.00 ft      Total Volume: 5.840 bbl

Num Fluid Samples: 0

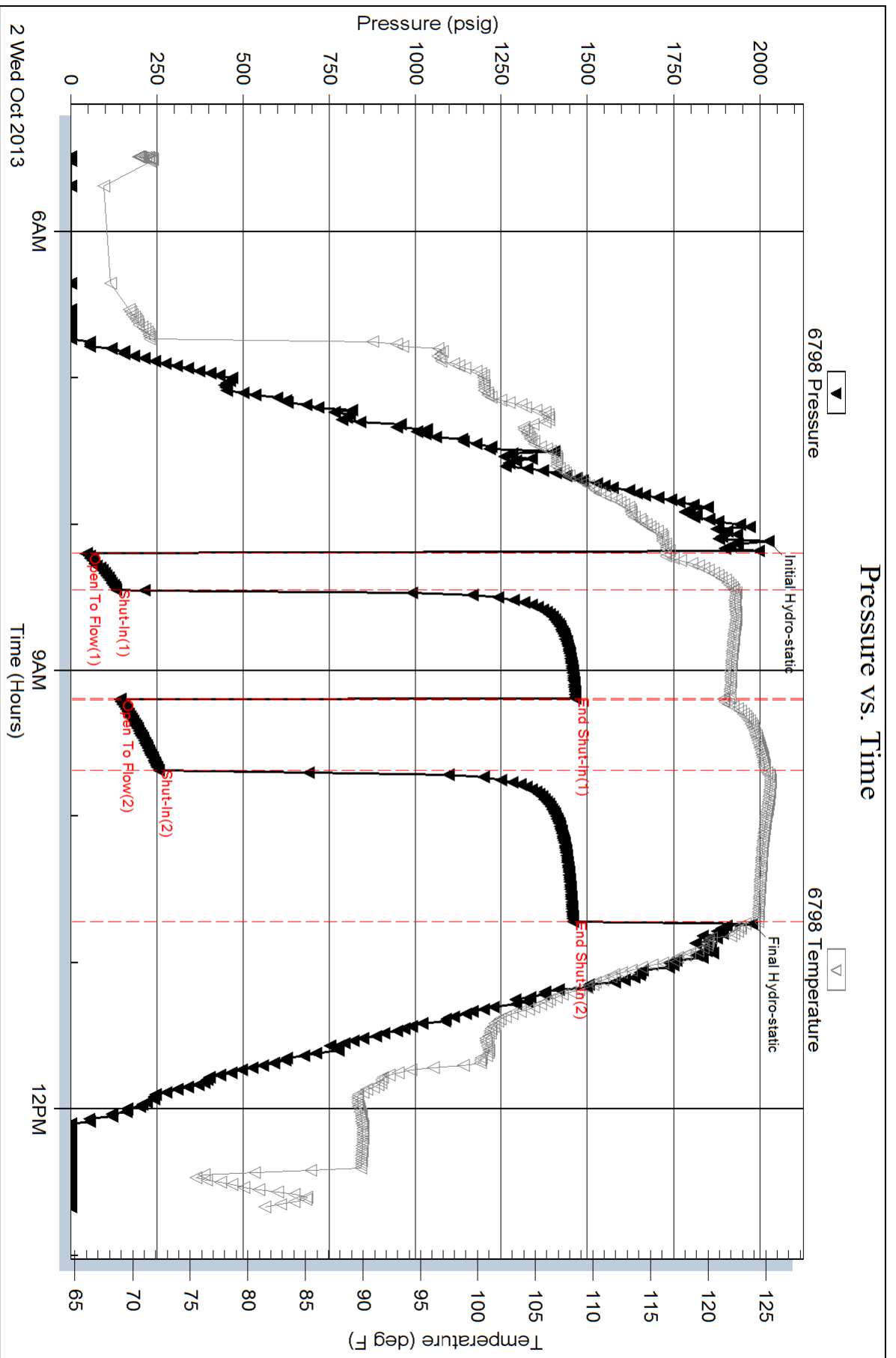
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .06 @ 74 degrees





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**34-31S-13W Barber**  
**3-34 Catlin**  
 Job Ticket: 52505      **DST#: 2**  
 Test Start: 2013.10.03 @ 00:31:25

## GENERAL INFORMATION:

Formation: **Swope**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:33:10  
 Time Test Ended: 08:16:25  
 Interval: **4096.00 ft (KB) To 4120.00 ft (KB) (TVD)**  
 Total Depth: 4120.00 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: 1617.00 ft (KB)  
 1609.00 ft (CF)  
 KB to GR/CF: 8.00 ft

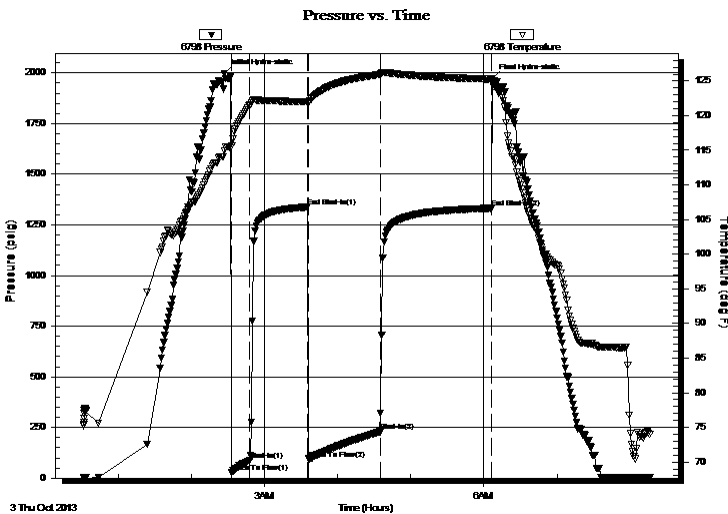
## Serial #: 6798

Inside

Press @ Run Depth: 229.38 psig @ 4097.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.10.03      End Date: 2013.10.03      Last Calib.: 2013.10.03  
 Start Time: 00:31:26      End Time: 08:16:25      Time On Btm: 2013.10.03 @ 02:27:10  
 Time Off Btm: 2013.10.03 @ 06:07:10

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes  
 IS: 1/4 inch Blow Back  
 FF: STrong Blow , BOB in 3 minutes  
 FS: Blow Back Built to 5 inches

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.42	114.92	Initial Hydro-static
6	28.25	115.62	Open To Flow (1)
21	87.03	121.51	Shut-In(1)
68	1338.53	122.03	End Shut-In(1)
69	95.19	121.79	Open To Flow (2)
128	229.38	125.93	Shut-In(2)
219	1332.35	125.26	End Shut-In(2)
220	1972.61	124.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	2192 GIP	0.00
308.00	Water	2.39
62.00	OMCW 2%O 8%M 90%W	0.87
104.00	GWMCO 20%G 12%W 14%M 54%O	1.46

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52505

**DST#: 2**

ATTN: Kent Roberts

Test Start: 2013.10.03 @ 00:31:25

## 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: 110000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.79 in<sup>3</sup>

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	2192 GIP	0.000
308.00	Water	2.389
62.00	OMCW 2%O 8%M 90%W	0.870
104.00	GWMCO 20%G 12%W 14%M 54%O	1.459

Total Length: 474.00 ft      Total Volume: 4.718 bbl

Num Fluid Samples: 0

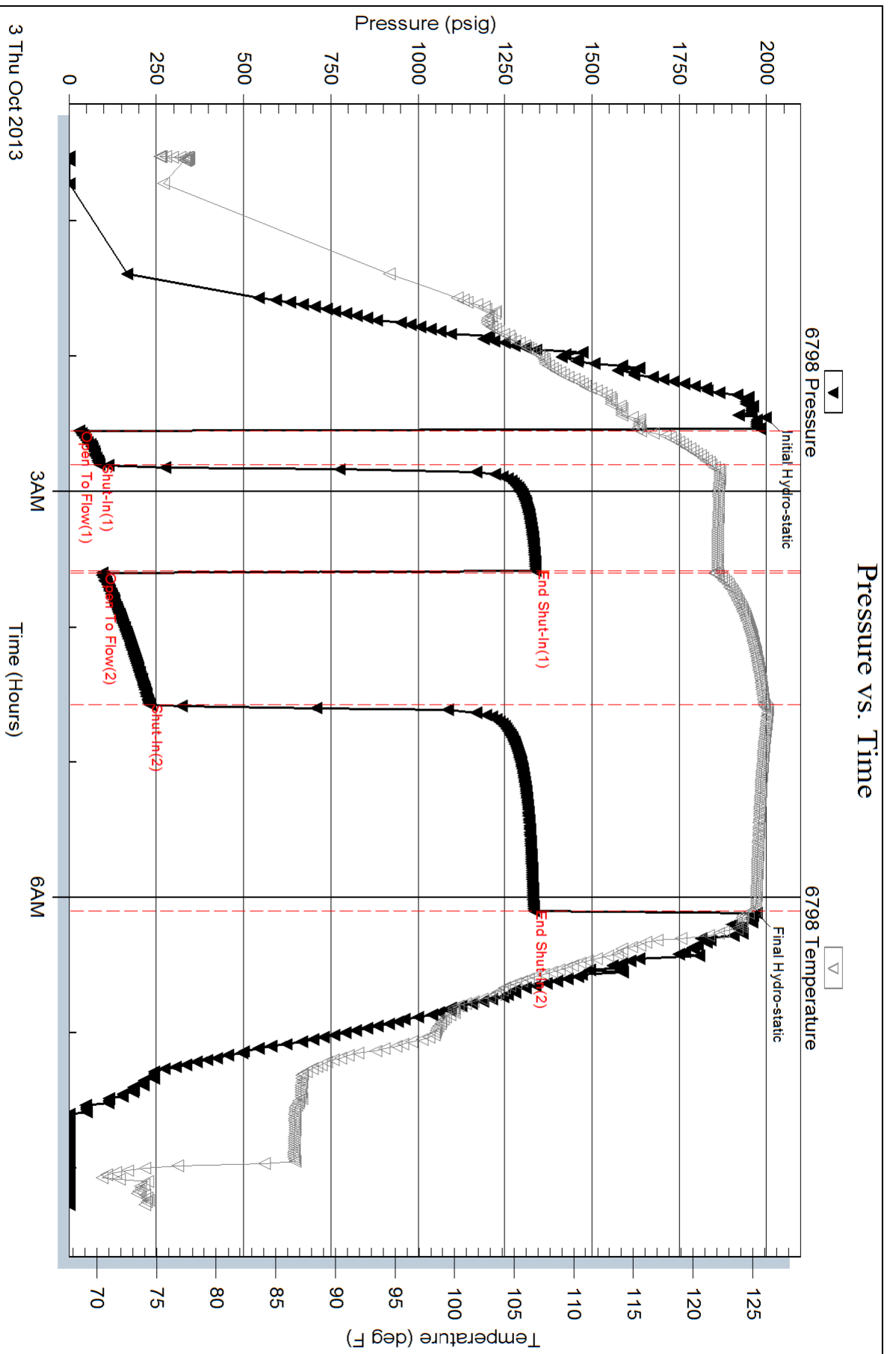
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw was .08 @ 66 degrees





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

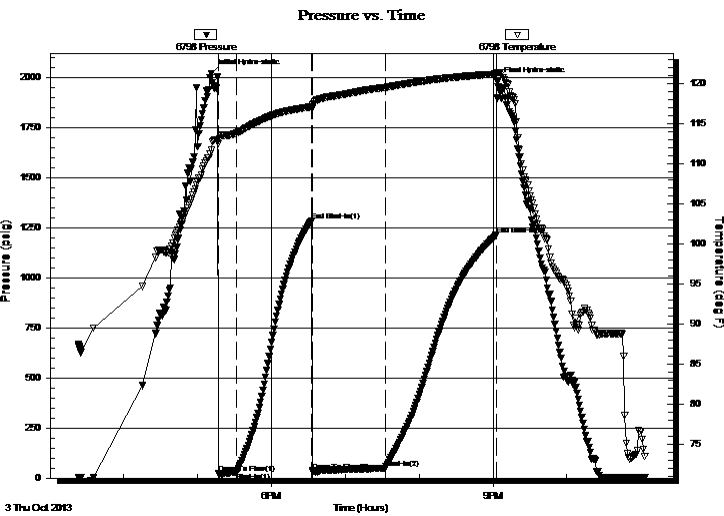
**34-31S-13W Barber**  
**3-34 Catlin**  
Job Ticket: 52506      **DST#: 3**  
Test Start: 2013.10.03 @ 15:23:23

## GENERAL INFORMATION:

Formation: **Hertha**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 17:16:53      Tester: Leal Cason  
Time Test Ended: 23:03:08      Unit No: 45  
**Interval: 4132.00 ft (KB) To 4160.00 ft (KB) (TVD)**      Reference Elevations: 1617.00 ft (KB)  
Total Depth: 4160.00 ft (KB) (TVD)      1609.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 8.00 ft

**Serial #: 6798      Inside**  
Press @ Run Depth: 50.00 psig @ 4133.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.10.03      End Date: 2013.10.03      Last Calib.: 2013.10.03  
Start Time: 15:23:24      End Time: 23:03:08      Time On Btm: 2013.10.03 @ 17:11:08  
Time Off Btm: 2013.10.03 @ 21:03:23

**TEST COMMENT:** IF: Fair Blow , BOB in 8 minutes  
IS: No Blow Back  
FF: Strong Blow , BOB in 90 seconds  
FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2022.68	111.73	Initial Hydro-static
6	23.81	112.54	Open To Flow (1)
21	30.47	113.88	Shut-In(1)
82	1284.28	117.16	End Shut-In(1)
83	35.21	117.36	Open To Flow (2)
142	50.00	119.57	Shut-In(2)
232	1215.73	121.24	End Shut-In(2)
233	1979.21	121.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	350 GIP	0.00
70.00	GMWCO 20%G 14%M 28%W 38%O	0.34

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52506

**DST#: 3**

ATTN: Kent Roberts

Test Start: 2013.10.03 @ 15:23:23

## 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:

95000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	350 GIP	0.000
70.00	GMWCO 20%G 14%M 28%W 38%O	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

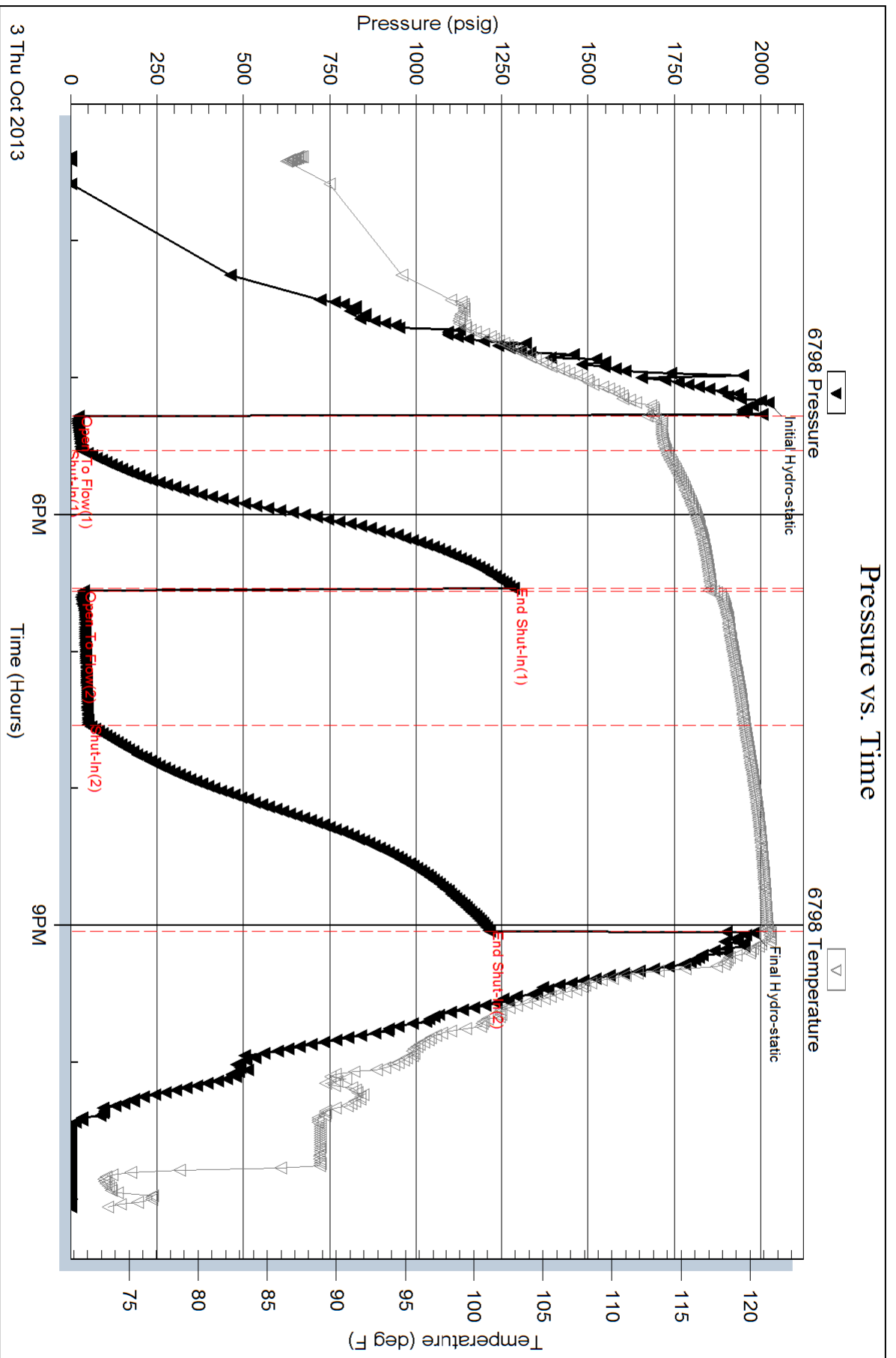
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .07 @ 84 degrees







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52507

**DST#: 4**

ATTN: Kent Roberts

Test Start: 2013.10.04 @ 08:55:59

## GENERAL INFORMATION:

Formation: **Massey**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:48:59

Time Test Ended: 16:40:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

**Interval: 4216.00 ft (KB) To 4254.00 ft (KB) (TVD)**

Total Depth: 4254.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1617.00 ft (KB)

1609.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6798**

**Inside**

Press @ Run Depth: 46.72 psig @ 4217.00 ft (KB)

Start Date: 2013.10.04

End Date:

2013.10.04

Start Time: 08:56:00

End Time:

16:40:36

Capacity: 8000.00 psig

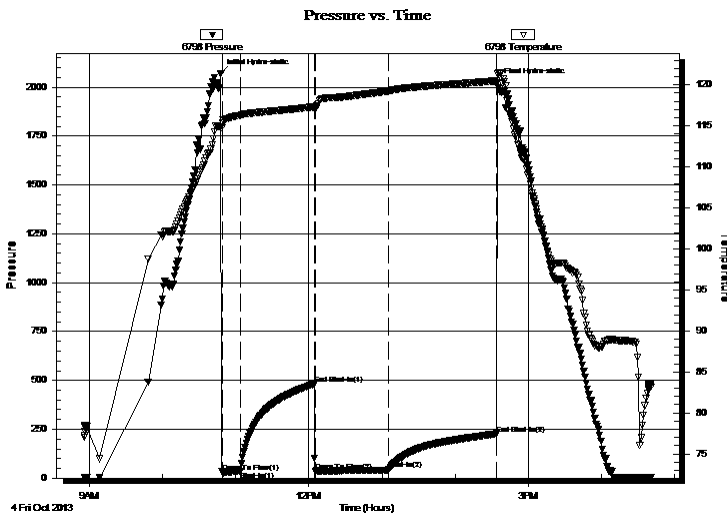
Last Calib.: 2013.10.04

Time On Btm: 2013.10.04 @ 10:47:44

Time Off Btm: 2013.10.04 @ 14:34:44

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

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2071.12	114.89	Initial Hydro-static
2	28.32	115.41	Open To Flow (1)
16	35.48	116.29	Shut-In(1)
77	482.44	117.34	End Shut-In(1)
78	34.15	117.16	Open To Flow (2)
138	46.72	119.26	Shut-In(2)
227	226.84	120.50	End Shut-In(2)
227	2022.18	121.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 2356	0.00
65.00	OCM 15%O 85%M	0.32

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52507

**DST#: 4**

ATTN: Kent Roberts

Test Start: 2013.10.04 @ 08:55:59

## 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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 2356	0.000
65.00	OCM 15%O 85%M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

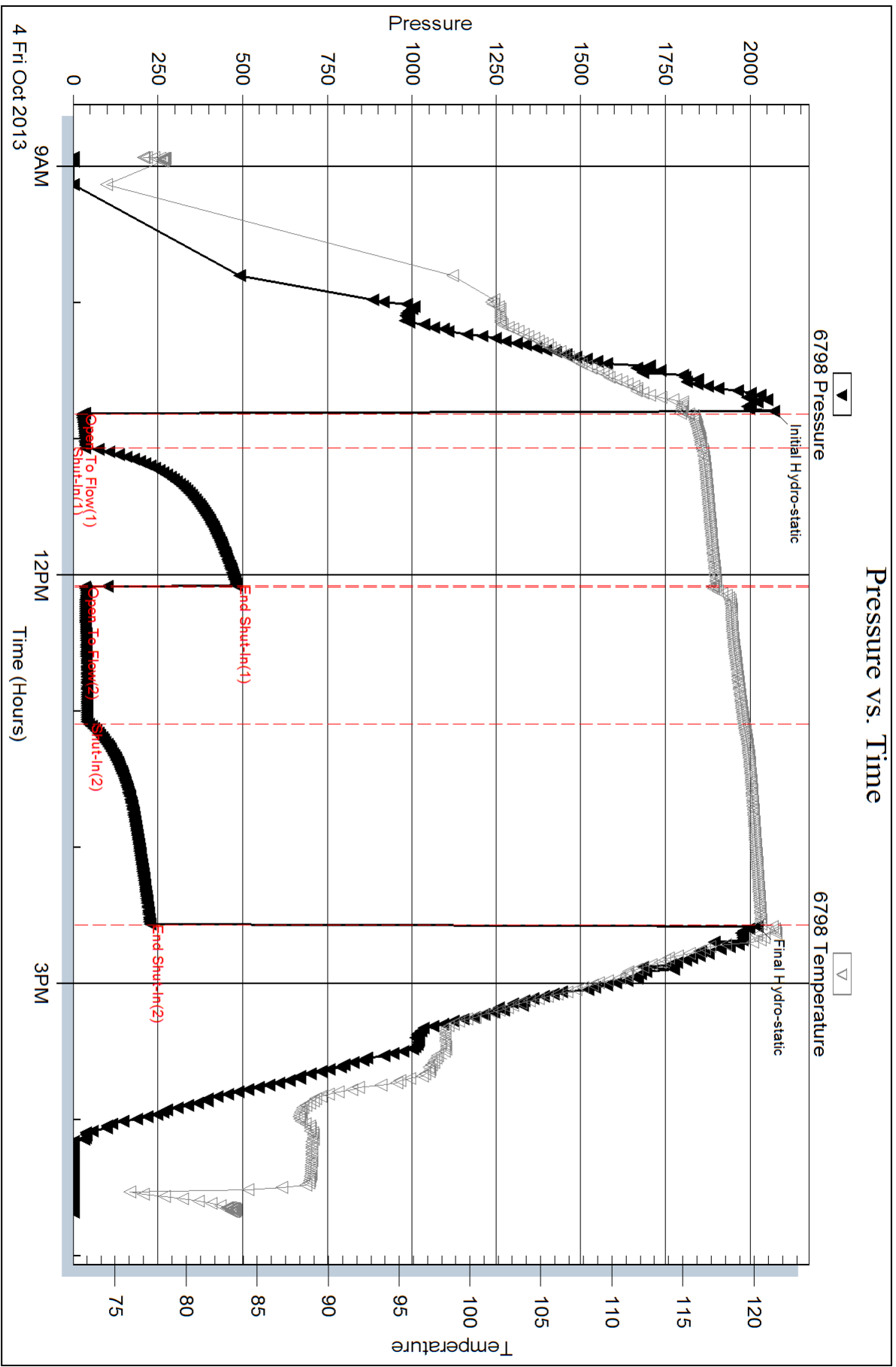
Num Gas Bombs: 0

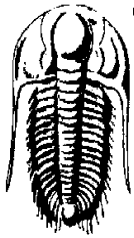
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**34-31S-13W Barber**  
**3-34 Catlin**  
 Job Ticket: 52508 **DST#: 5**  
 Test Start: 2013.10.05 @ 00:43:53

## GENERAL INFORMATION:

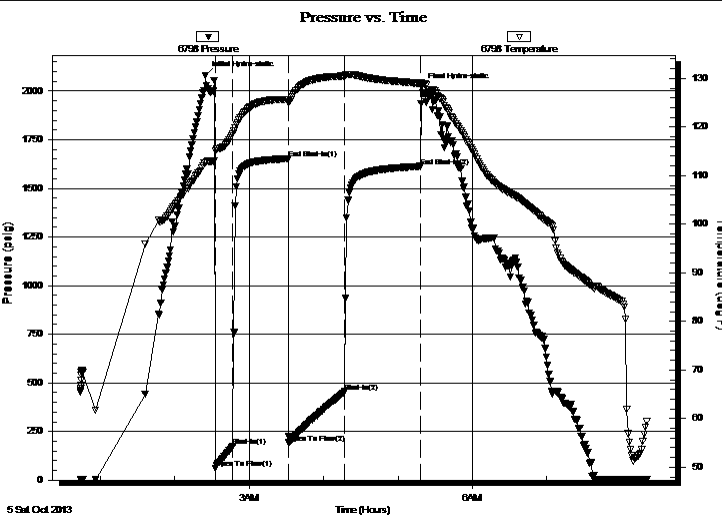
Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:32:38  
 Time Test Ended: 08:20:38  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 45  
 Interval: **4248.00 ft (KB) To 4282.00 ft (KB) (TVD)**  
 Reference Elevations: 1617.00 ft (KB)  
 Total Depth: 4282.00 ft (KB) (TVD)  
 1609.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 KB to GR/CF: 8.00 ft

## Serial #: 6798

Inside

Press @ Run Depth: 454.35 psig @ 4249.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.05 End Date: 2013.10.05 Last Calib.: 2013.10.05  
 Start Time: 00:43:54 End Time: 08:20:38 Time On Btm: 2013.10.05 @ 02:24:38  
 Time Off Btm: 2013.10.05 @ 05:18:53

**TEST COMMENT:** IF: Strong Blow , BOB in 45 seconds  
 IS: Weak Surface Blow Back  
 FF: Strong Blow , BOB in 4 minutes  
 FS: Blow Back Built to BOB in 6 minutes, GTS 16 minutes into Shut In



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.24	112.65	Initial Hydro-static
8	61.48	115.17	Open To Flow (1)
22	172.93	118.60	Shut-In(1)
67	1652.73	125.67	End Shut-In(1)
68	191.53	125.04	Open To Flow (2)
113	454.35	130.52	Shut-In(2)
174	1613.22	128.99	End Shut-In(2)
175	2020.27	129.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3327 GIP	0.00
716.00	GSY Water 10%G 90%W	8.11
122.00	GMCW 10%G 40%M 50%W	1.71
92.00	GWCM 10%G 40%W 50%M	1.29

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52508

**DST#: 5**

ATTN: Kent Roberts

Test Start: 2013.10.05 @ 00:43:53

## 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:

65000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.57 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	3327 GIP	0.000
716.00	GSY Water 10%G 90%W	8.112
122.00	GMCW 10%G 40%M 50%W	1.711
92.00	GWCM 10%G 40%W 50%M	1.291

Total Length: 930.00 ft      Total Volume: 11.114 bbl

Num Fluid Samples: 0

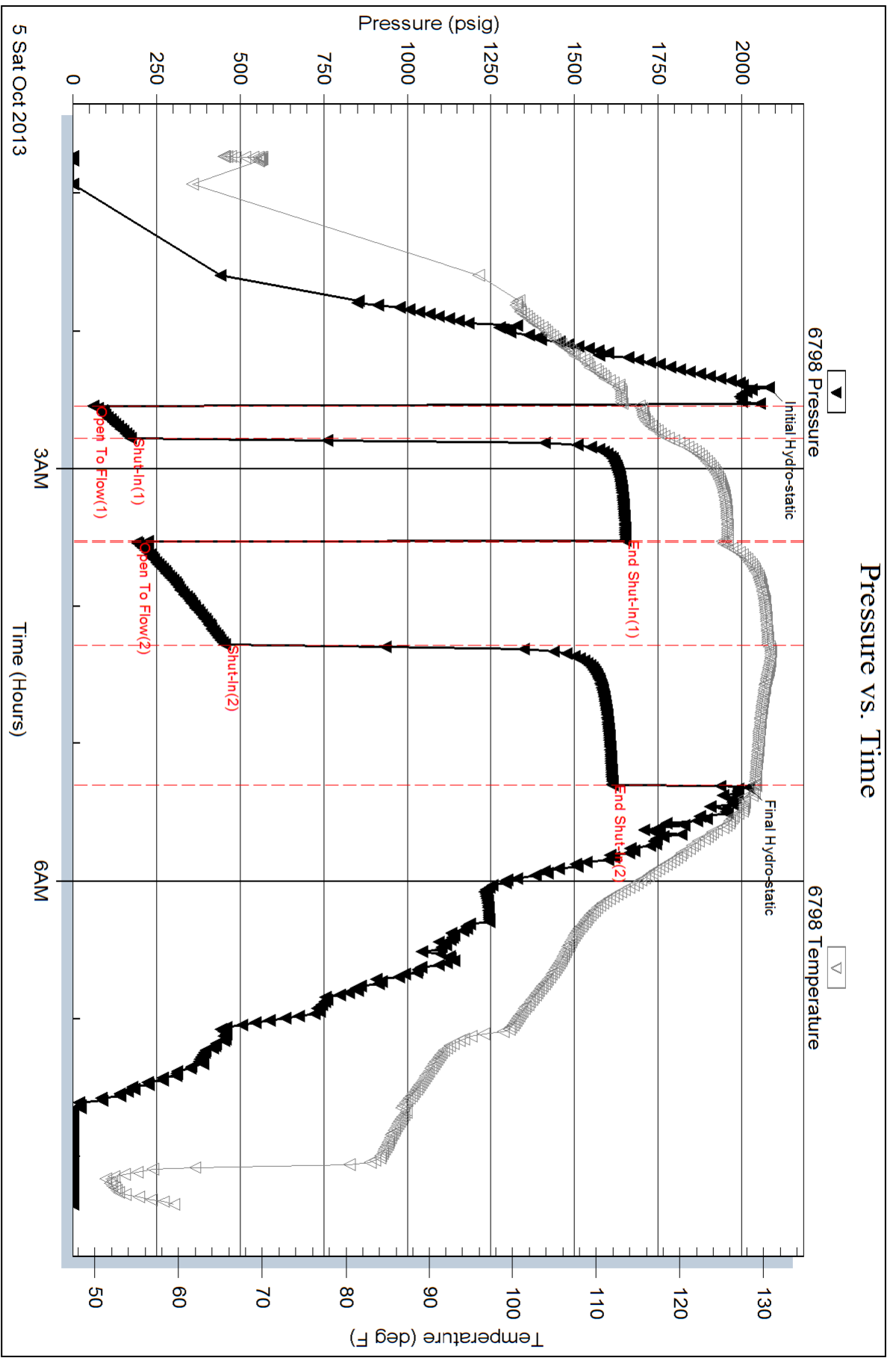
Num Gas Bombs: 0

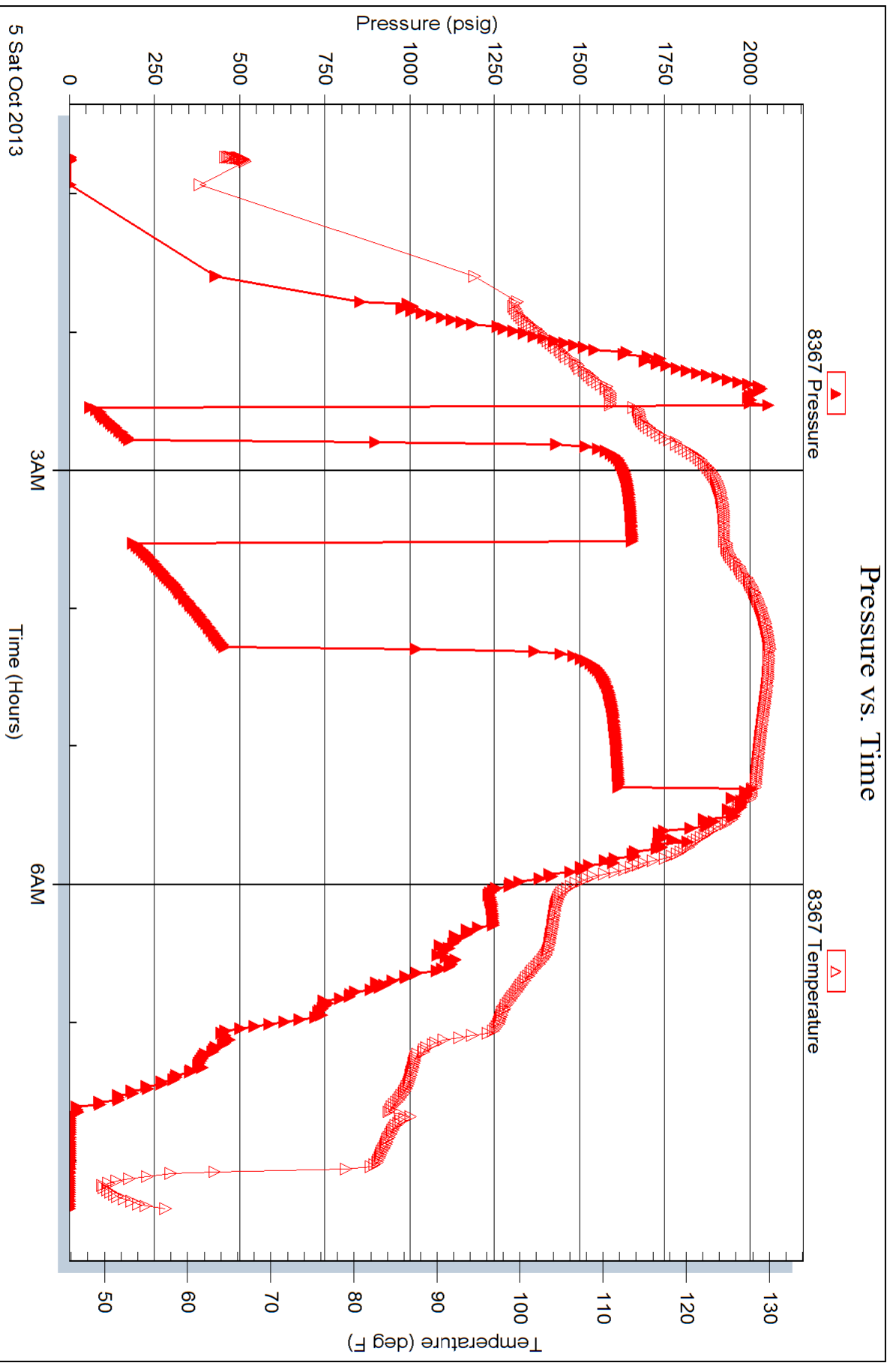
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .18 @ 47 degrees









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

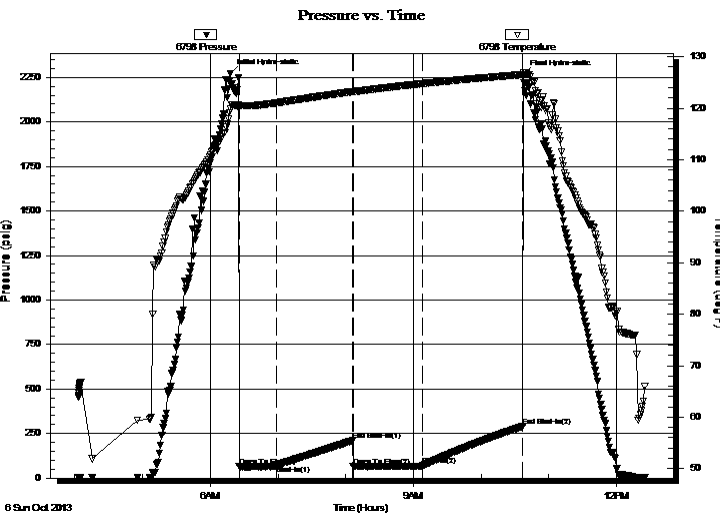
**34-31S-13W Barber**  
**3-34 Catlin**  
 Job Ticket: 52509 **DST#: 6**  
 Test Start: 2013.10.06 @ 04:03:15

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 06:25:30 Tester: Leal Cason  
 Time Test Ended: 12:25:30 Unit No: 45  
 Interval: **4440.00 ft (KB) To 4564.00 ft (KB) (TVD)** Reference Elevations: 1617.00 ft (KB)  
 Total Depth: 4564.00 ft (KB) (TVD) 1609.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 6798 Inside**  
 Press @ Run Depth: 69.90 psig @ 4441.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.06 End Date: 2013.10.06 Last Calib.: 2013.10.06  
 Start Time: 04:03:16 End Time: 12:25:30 Time On Btm: 2013.10.06 @ 06:18:00  
 Time Off Btm: 2013.10.06 @ 10:37:30

**TEST COMMENT:** IF: Weak Blow Built to 4 inches  
 IS: No Blow Back  
 FF: Weak Blow, Built to 5 inches  
 FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.63	119.82	Initial Hydro-static
8	68.15	120.22	Open To Flow (1)
41	70.79	121.03	Shut-In(1)
108	210.49	123.21	End Shut-In(1)
109	64.37	123.17	Open To Flow (2)
171	69.90	124.78	Shut-In(2)
259	290.15	126.53	End Shut-In(2)
260	2263.86	126.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	172 GIP	0.00
10.00	Mud	0.05

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

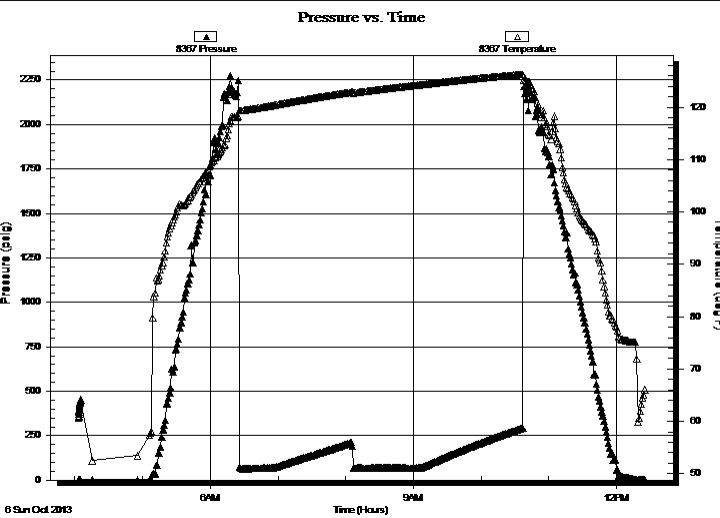
**34-31S-13W Barber**  
**3-34 Catlin**  
 Job Ticket: 52509 **DST#: 6**  
 Test Start: 2013.10.06 @ 04:03:15

## GENERAL INFORMATION:

Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 06:25:30 Tester: Leal Cason  
 Time Test Ended: 12:25:30 Unit No: 45  
 Interval: **4440.00 ft (KB) To 4564.00 ft (KB) (TVD)** Reference Elevations: 1617.00 ft (KB)  
 Total Depth: 4564.00 ft (KB) (TVD) 1609.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8367 Outside**  
 Press @ Run Depth: psig @ 4441.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.10.06 End Date: 2013.10.06 Last Calib.: 2013.10.06  
 Start Time: 04:03:16 End Time: 12:25:30 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Weak Blow Built to 4 inches  
 IS: No Blow Back  
 FF: Weak Blow, Built to 5 inches  
 FS: No Blow Back



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

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	172 GIP	0.00
10.00	Mud	0.05

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources

**34-31S-13W Barber**

2020 N Tyler Ste 106  
Wichita, KS 67212

**3-34 Catlin**

Job Ticket: 52509

**DST#: 6**

ATTN: Kent Roberts

Test Start: 2013.10.06 @ 04:03:15

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	172 GIP	0.000
10.00	Mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

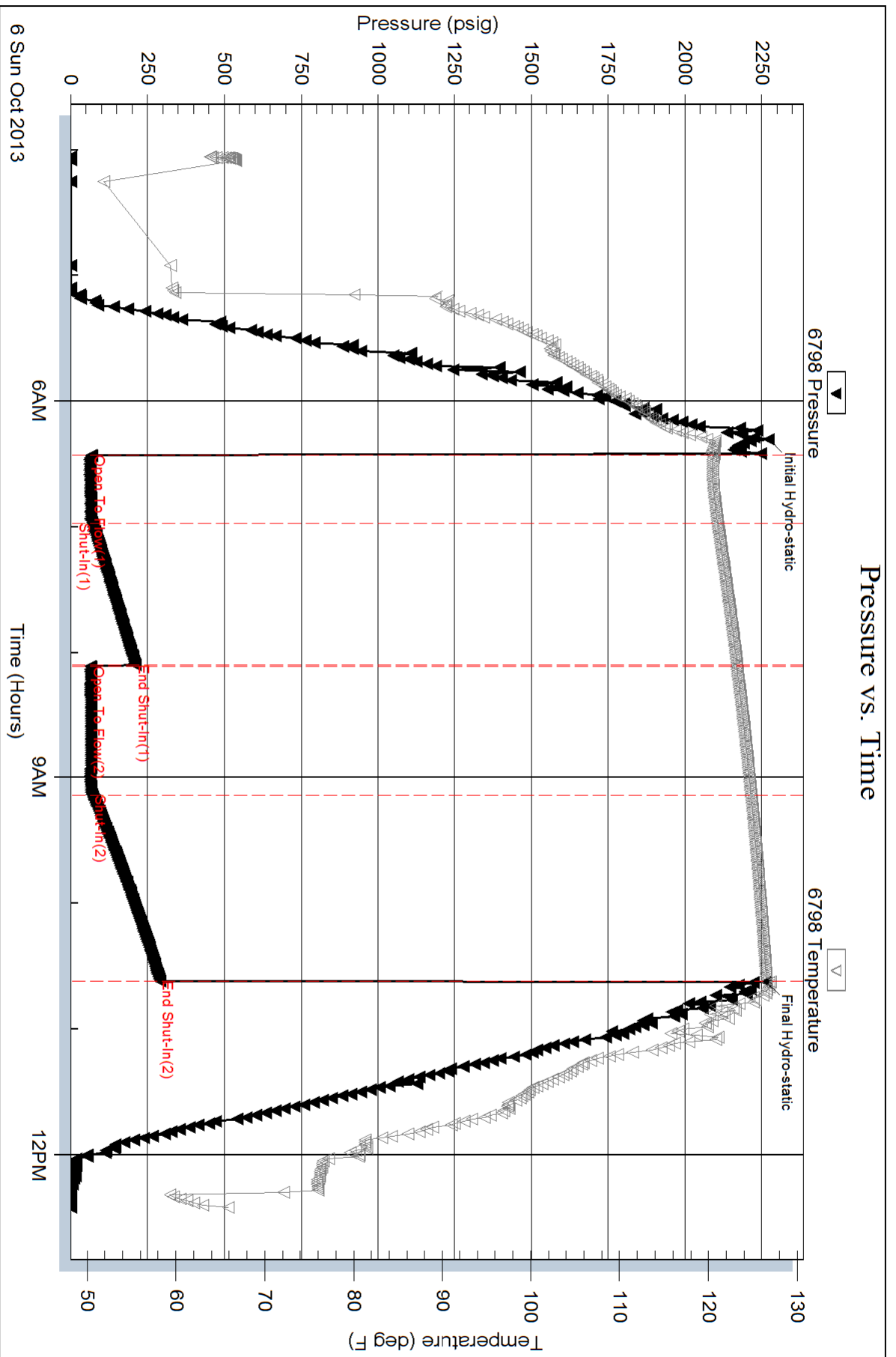
Num Gas Bombs: 0

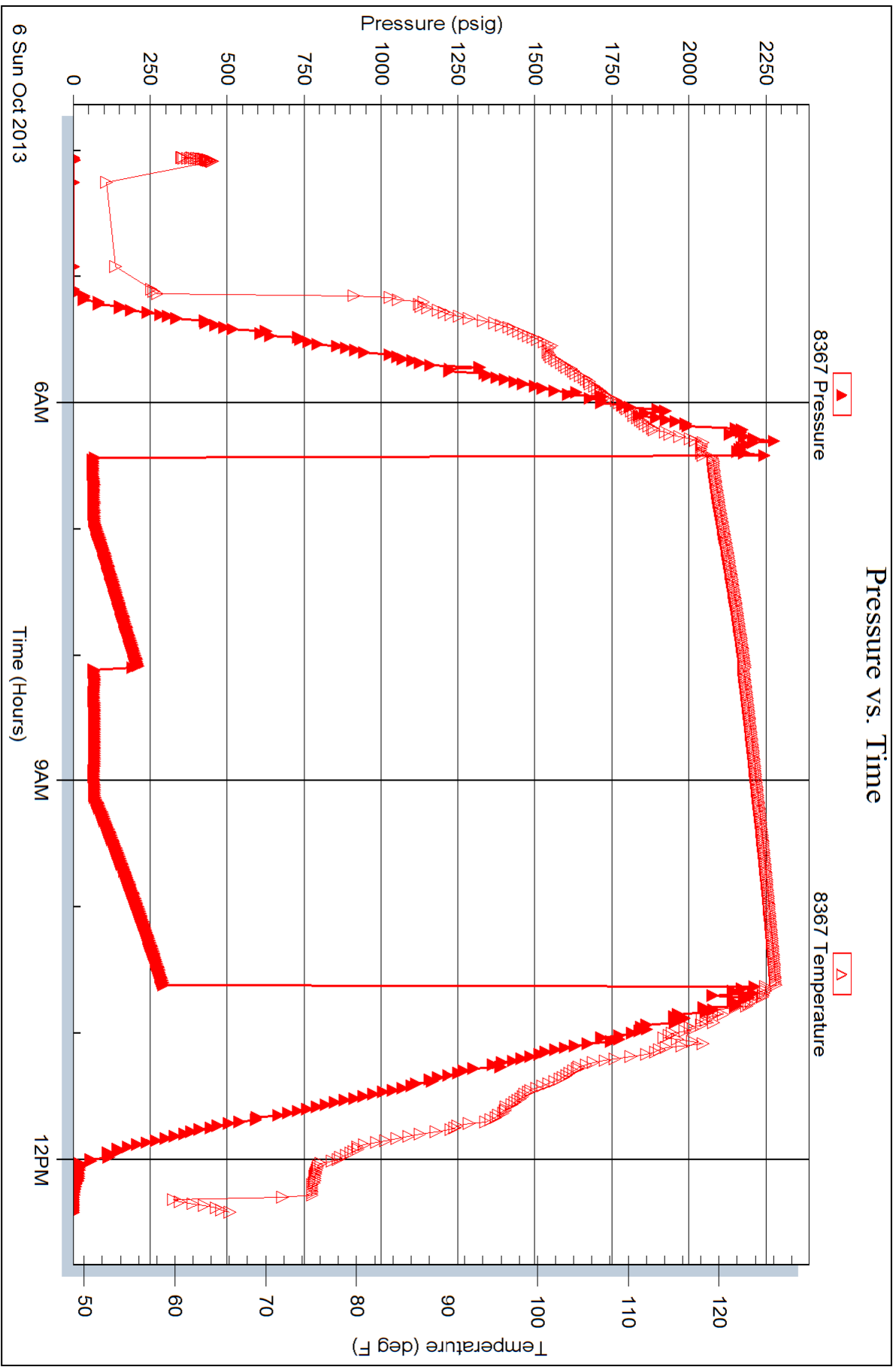
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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/>

Shari Feist Albrecht, Chair  
Thomas E. Wright, Commissioner  
Jay Scott Emler, Commissioner

Sam Brownback, Governor

February 11, 2014

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

Re: ACO-1  
API 15-007-24083-00-00  
Catlin 3-34  
NE/4 Sec.34-31S-13W  
Barber County, Kansas

Dear Kent Roberts:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 09/27/2013 and the ACO-1 was received on February 06, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department