



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1222746  
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: \_\_\_\_\_

1222746

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

<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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Roberts Resources, Inc.
Well Name	Wheelock "A" 2
Doc ID	1222746

Tops

Name	Top	Datum
Elgin	3462	-1926
Heebner	3523	-1987
Upper Douglas Sd	3586	-2050
Lower Douglas Sd	3681	-2145
Lansing	3708	-2172
Stark Sh	4072	-2536
Mississippi Chert	4366	-2830
Viola	4526	-2990
Simpson Sd	4664	-3128
Arbuckle	4704	-3168







PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1003562	1718	08/11/2014
<b>INVOICE NUMBER</b>			
<b>91564579</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 Wheelock A 2  
 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
40753253	27463		Net - 30 days	09/10/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<b>For Service Dates: 08/08/2014 to 08/08/2014</b>				
0040753253				
171811119A Cement-New Well Casing/Pi 08/08/2014				
Cement 8 5/8" Surface				
60/40 POZ	190.00	EA	9.36	1,778.40 T
Celloflake	48.00	EA	2.89	138.53 T
Calcium Chloride	492.00	EA	0.82	402.95 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	124.80	124.80
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.31	116.02
Heavy Equipment Mileage	70.00	MI	5.46	382.20
"Proppant & Bulk Del. Chgs., per ton mil	287.00	EA	1.72	492.49
Depth Charge; 0-500'	1.00	EA	780.00	780.00
Blending & Mixing Service Charge	190.00	BAG	1.09	207.48
Plug Container Util. Chg.	1.00	EA	195.00	195.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	136.50	136.50

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>4,754.37</b>
BASIC ENERGY SERVICES,LP	BASIC ENERGY SERVICES,LP	<b>TAX</b>	<b>165.87</b>
PO BOX 841903	801 CHERRY ST, STE 2100	<b>INVOICE TOTAL</b>	<b>4,920.24</b>
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 11119 A

34 31 12

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

DATE OF JOB 8/8/14	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER Roberts Resources Inc	LEASE Wheelock 'A'	WELL NO. 2								
ADDRESS	COUNTY Barber	STATE KS								
CITY	STATE	SERVICE CREW Scott, Pat, Josh, Dale								
AUTHORIZED BY Kent Roberts	JOB TYPE: 8 5/8 Surface pipe cncw									
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
38470	1					ARRIVED AT JOB	8/8/14	PM		1:00
27463	1					START OPERATION	8/8/14	PM		3:46
19903 19860	1					FINISH OPERATION	8/8/14	PM		4:10
						RELEASED	8/8/14	PM		4:45
MILES FROM STATION TO WELL										

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

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:   
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 POZ	SK	190		2280 00
CC102	Celloflake	lb	48		177 60
CC109	Calcium chloride	lb	492		516 60
CE153	wooden cement Plug 8 5/8	Ea	1		160 00
E100	Unit Mileage Pick up	MI	35		148 75
E101	Heavy Equipment Mileage	MI	70		490 00
E113	Prop & Bulk Delivery	T/M	287		631 40
CE200	Depth Charge	Hrs	1		1000 00
CE240	Blending & Mixing Charge	SK	190		266 00
CE504	Plug Container	Job	1		250 00
SO03	Service Supervisor	Ca	1		175 00

CHEMICAL / ACID DATA:			

SUB TOTAL			
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL		4,754	37

SERVICE REPRESENTATIVE:

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

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

Customer <i>Robert Resources</i>	Lease No.	Date <i>8-8-14</i>	
Lease <i>Wheelock "A"</i>	Well # <i>2</i>		
Field Order # <i>1119 A</i>	Station	Casing <i>8 5/8</i>	Depth <i>266'</i>
Type Job <i>8 5/8 Surface pipe CNW</i>	Formation	County <i>Barber</i>	State <i>KS</i>
		Legal Description <i>34 51 12</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>8 5/8</i>							
Depth <i>266'</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>17.13</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>8 5/8</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>Kent Roberts</i>	Station Manager <i>Kevin Goodley</i>	Treater <i>Scott Graves</i>
Service Units <i>38970 27643 19903 19860</i>		
Driver Names <i>Scott Josh Dale Pat</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1:00</i>					<i>On location Safety Meeting Rig up</i>
<i>3:40</i>					<i>Circulate well</i>
<i>3:46</i>	<i>50</i>		<i>3</i>	<i>5</i>	<i>Pump H<sub>2</sub>O spacer</i>
<i>3:48</i>	<i>150</i>			<i>5.5</i>	<i>Mix 190 SKS 60/40 POZ 14.8 API</i>
<i>4:04</i>	<i>100</i>		<i>40.94</i>		<i>60/40 POZ complete</i>
<i>4:05</i>					<i>Drop Plug</i>
<i>4:05</i>	<i>150</i>			<i>5</i>	<i>Start Displacement</i>
<i>4:10</i>	<i>150</i>		<i>16</i>		<i>Displacement complete</i>
<i>4:10</i>					<i>Shut in well head</i>
					<i>Job Complete</i>
					<i>CIRCULATE CEMENT TO PET</i>





PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1003562	1718	08/20/2014
<b>INVOICE NUMBER</b>			
<b>91572144</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 Wheelock A 2  
 O LOCATION  
 B COUNTY Barber  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40756602	20920		Net - 30 days	09/19/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/18/2014 to 08/18/2014</i>				
0040756602				
171811180A Cement-New Well Casing/Pi 08/18/2014 Cement 5 1/2" Longstring				
AA2 Cement	175.00	EA	13.09	2,290.66 T
60/40 POZ	55.00	EA	9.24	508.18 T
Celloflake	44.00	EA	2.85	125.35 T
C-41P	42.00	EA	3.08	129.36 T
Salt	797.00	EA	0.38	306.83 T
Cement Friction Reducer	50.00	EA	4.62	230.99 T
C-44	165.00	EA	3.97	654.28 T
FLA-322	83.00	EA	5.77	479.31 T
Gilsonite	874.00	EA	0.52	450.88 T
Super Flush	500.00	EA	1.89	943.22 T
Claymax KCL Substitute	5.00	EA	26.95	134.75 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	307.99	307.99
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	277.19	277.19
"Turbolizer, 5 1/2" (Blue)"	10.00	EA	84.70	846.97
"5 1/2" Basket (Blue)"	1.00	EA	223.29	223.29
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.27	114.53
Heavy Equipment Mileage	70.00	MI	5.39	377.29
"Proppant & Bulk Del. Chgs., per ton mil	373.00	EA	1.69	631.84
Depth Charge; 4001'-5000'	1.00	EA	1,940.33	1,940.33
Blending & Mixing Service Charge	230.00	BAG	1.08	247.93
Plug Container Util. Chg.	1.00	EA	192.49	192.49
"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.75	134.75

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>11,548.41</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>447.15</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>11,995.56</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		

Customer Roberts Resources, Inc	Lease No.	Date 8-18-14
Lease Whetlock "A"	Well # 2	
Field Order # 1180	Station Prati	Casing 5 1/2
		Depth 4689.3
Type Job CNW longstring	Formation	County BAIRD
		State KS
		Legal Description 34-31-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid 175 SVS	AA 2	RATE	PRESS	ISIP
Depth 4689.3	Depth	From	To	Pre Pad 55 SVS	Max	60/40	102	5 Min.
Volume 111.6	Volume	From	To	Pad	Min			10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg			15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 4647	Packer Depth	From	To	Flush 110.6	Gas Volume			Total Load

Customer Representative Kent Roberts	Station Manager Kevin Guldley	Treater Mike Matrai
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Service Units 37586	33708	20920	19959	73768
Driver Names MATRAI	Egg	ing	COBB	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:45					ON LOCATION, SAFETY MEETING
8:40					Run 5 1/2 casing BASCO #
10:15					turbos on
10:15					CASING ON BOTTOM
10:25					Hook up to casing/Break circ w. Rg
11:28	100		5	4	PUMP 5 BBL WATER
11:30	100		12	4	PUMP 12 BBL SUPERFLUSH
11:33	100		5	4	PUMP 5 BBL WATER
11:36	150		6	5	MIX 25 SVS, SECHING...
11:37	150		42	5.5	MIX 175 SVS AA 2 CM
11:50			4	3	WASH Pump + Lines, Release Plug
11:55	50			6	START 2% VCL Displacement
12:10	150		78	5.5	Limit Pressure
12:15	500		100	3	SLOW RATE
12:17	1000, 1500		110.6		plug down, released + 14/10
					Plug RAT 110.6
					CIRC. TIME JOB
					JOB COMPLETE
					THANK YOU!
					MIKE MATRAI



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources Inc.

**34-31s-12w Barber Ks.**

2020 N.Tyler RD. Ste.106  
Wichita Ks.67212

**Wheelock A#2**

Job Ticket: 54243

**DST#: 1**

ATTN: Kent Roberts

Test Start: 2014.08.14 @ 00:32:12

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:06:57

Time Test Ended: 09:07:42

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

**Interval: 4238.00 ft (KB) To 4284.00 ft (KB) (TVD)**

Reference Elevations: 1536.00 ft (KB)

Total Depth: 4284.00 ft (KB) (TVD)

1528.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8352 Outside**

Press @ Run Depth: 164.60 psig @ 4239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.14

End Date:

2014.08.14

Last Calib.:

2014.08.14

Start Time: 00:32:17

End Time:

09:07:42

Time On Btm:

2014.08.14 @ 03:03:57

Time Off Btm:

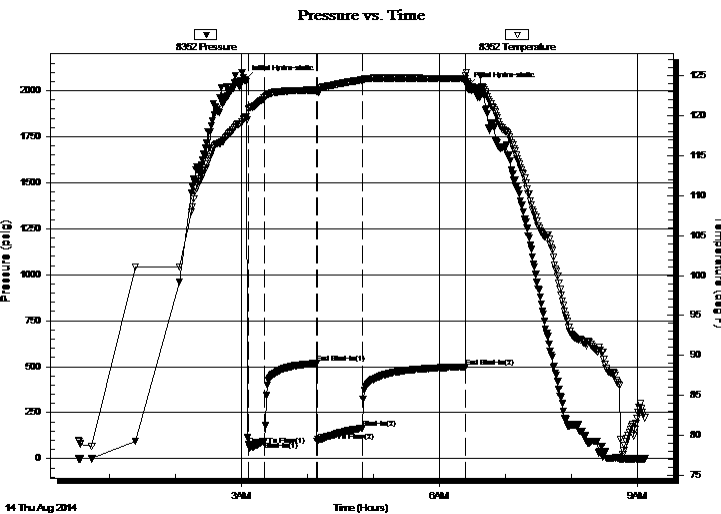
2014.08.14 @ 06:26:12

TEST COMMENT: IF: Strong blow . B.O.B. in 5 secs. GTS in 6 mins. (see gas flow report)

IS: No blow .

FF: Strong blow . (see gas flow report)

FS: Fair blow . Increase to 5 1/2".



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.13	119.76	Initial Hydro-static
3	75.11	120.80	Open To Flow (1)
18	95.27	122.22	Shut-In(1)
65	517.39	123.17	End Shut-In(1)
65	95.76	122.94	Open To Flow (2)
106	164.60	124.42	Shut-In(2)
200	499.61	124.60	End Shut-In(2)
203	2025.07	123.95	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	GCMW 23%g 3%m 84%w /Rw .065 @ 81	1.47
125.00	GCMW 44%g 11%m 45%w	1.23
35.00	GCWM 12%g 18%w 70%m	0.34

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	12.00	96.71
Last Gas Rate	0.38	4.50	69.23
Max. Gas Rate	0.38	12.00	96.71



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Roberts Resources Inc.

**34-31s-12w Barber Ks.**

2020 N.Tyler RD. Ste.106  
Wichita Ks.67212

**Wheelock A#2**

Job Ticket: 54243

**DST#: 1**

ATTN: Kent Roberts

Test Start: 2014.08.14 @ 00:32:12

## 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: 11.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	GCMW 23%g 3%m 84%w /Rw .065@81deg	1.475
125.00	GCMW 44%g 11%m 45%w	1.228
35.00	GCWM 12%g 18%w 70%m	0.344

Total Length: 400.00 ft

Total Volume: 3.047 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Roberts Resources Inc.

**34-31s-12w Barber Ks.**

2020 N.Tyler RD. Ste.106  
Wichita Ks.67212

**Wheelock A#2**

Job Ticket: 54243

**DST#: 1**

ATTN: Kent Roberts

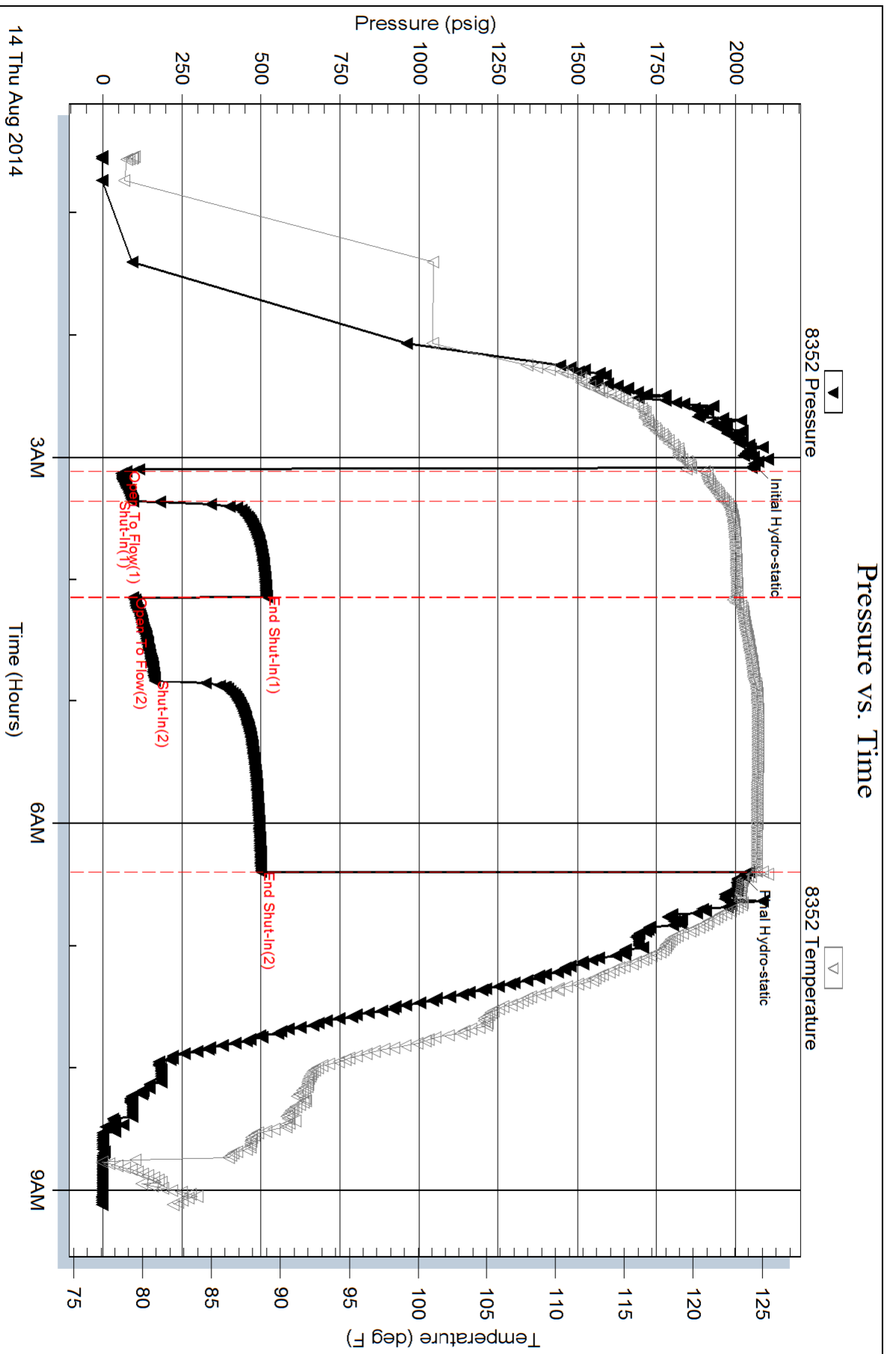
Test Start: 2014.08.14 @ 00:32:12

### 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)
1	10	0.38	12.00	96.71
1	10	0.38	12.00	96.71
1	15	0.38	9.00	85.72
2	10	0.38	7.00	78.39
2	20	0.38	5.00	71.07
2	30	0.38	5.00	71.07
2	40	0.38	4.50	69.23





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources Inc.  
 2020 N.Tyler RD. Ste.106  
 Wichita Ks.67212  
 ATTN: Kent Roberts

**34-31s-12w Barber Ks.**  
**Wheelock A#2**  
 Job Ticket: 54244 **DST#: 2**  
 Test Start: 2014.08.14 @ 17:24:30

## GENERAL INFORMATION:

Formation: **Miss.**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:24:00  
 Time Test Ended: 00:34:45  
 Interval: **4286.00 ft (KB) To 4326.00 ft (KB) (TVD)**  
 Total Depth: 4326.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Gary Pevoteaux  
 Unit No: 56  
 Reference Elevations: 1536.00 ft (KB)  
 1528.00 ft (CF)  
 KB to GR/CF: 8.00 ft

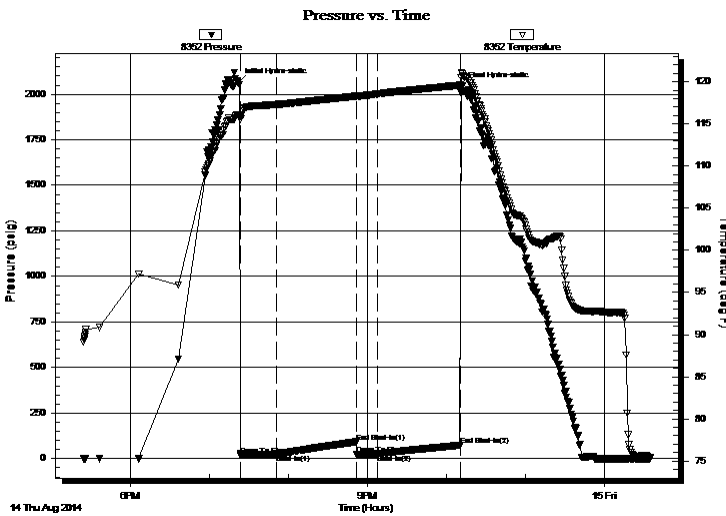
## Serial #: 8352

**Outside**

Press @ Run Depth: 25.52 psig @ 4287.00 ft (KB)  
 Start Date: 2014.08.14 End Date: 2014.08.15  
 Start Time: 17:24:35 End Time: 00:34:44  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.08.15  
 Time On Btm: 2014.08.14 @ 19:22:15  
 Time Off Btm: 2014.08.14 @ 22:11:15

TEST COMMENT: IF:Weak to fair blow . 3 - 6".  
 IS:No blow .  
 FF:Weak blow . 14" or less.  
 FS:No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.52	116.09	Initial Hydro-static
2	18.75	115.63	Open To Flow (1)
29	23.22	117.30	Shut-In(1)
90	92.09	118.30	End Shut-In(1)
90	22.04	118.26	Open To Flow (2)
106	25.52	118.55	Shut-In(2)
169	74.51	119.59	End Shut-In(2)
169	2041.17	121.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGCM 2%g 98%m	0.15
0.00	120 ft.of GIP	0.00

\* 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 Inc.

**34-31s-12w Barber Ks.**

2020 N.Tyler RD. Ste.106  
Wichita Ks.67212

**Wheelock A#2**

Job Ticket: 54244

**DST#: 2**

ATTN: Kent Roberts

Test Start: 2014.08.14 @ 17:24:30

## 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:

8000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	SGCM 2%g 98%m	0.148
0.00	120 ft.of GIP	0.000

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

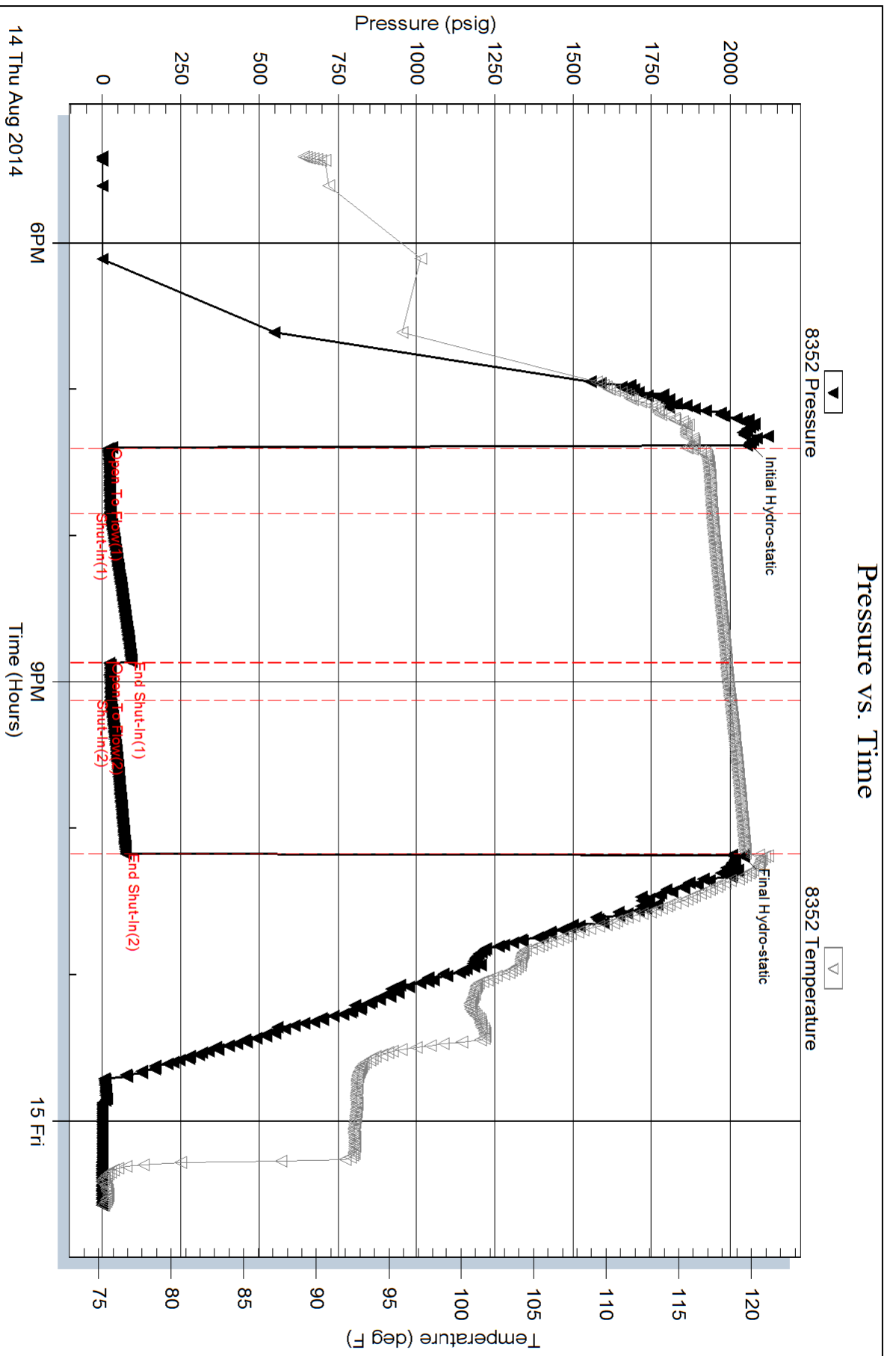
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources Inc.  
2020 N.Tyler RD. Ste.106  
Wichita Ks.67212  
ATTN: Kent Roberts

**34-31s-12w Barber Ks.**  
**Wheelock A#2**  
Job Ticket: 54245      **DST#: 3**  
Test Start: 2014.08.15 @ 23:29:01

## GENERAL INFORMATION:

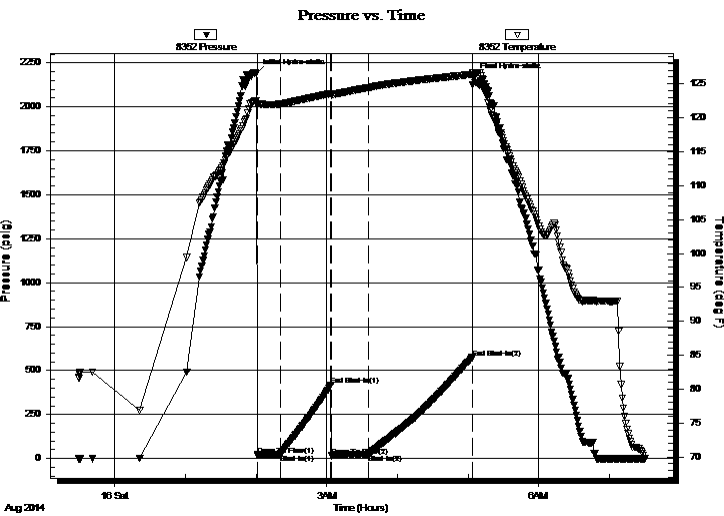
Formation: **Viola**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 02:01:01  
Time Test Ended: 07:30:31  
**Interval: 4536.00 ft (KB) To 4572.00 ft (KB) (TVD)**  
Total Depth: 4572.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Gary Pevoteaux  
Unit No: 56  
Reference Elevations: 1536.00 ft (KB)  
1528.00 ft (CF)  
KB to GR/CF: 8.00 ft

## Serial #: 8352

**Outside**

Press @ Run Depth: 24.58 psig @ 4537.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.08.15      End Date: 2014.08.16      Last Calib.: 2014.08.16  
Start Time: 23:29:06      End Time: 07:30:30      Time On Btm: 2014.08.16 @ 01:59:46  
Time Off Btm: 2014.08.16 @ 05:04:16

**TEST COMMENT:** IF:Weak to fair blow . Increase to 7"  
IS:No blow .  
FF:Fair blow .5 - 6". Increasing to 10".  
FS:No blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2188.08	122.47	Initial Hydro-static
2	19.06	121.98	Open To Flow (1)
21	22.17	122.01	Shut-In(1)
64	416.27	123.57	End Shut-In(1)
64	15.76	123.31	Open To Flow (2)
96	24.58	124.44	Shut-In(2)
184	574.13	126.38	End Shut-In(2)
185	2168.61	126.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM4%o 96%m/Clean oil@ top of tool	0.15
0.00	335 ft.of GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Roberts Resources Inc.

**34-31s-12w Barber Ks.**

2020 N.Tyler RD. Ste.106  
Wichita Ks.67212

**Wheelock A#2**

Job Ticket: 54245

**DST#: 3**

ATTN: Kent Roberts

Test Start: 2014.08.15 @ 23:29:01

## GENERAL INFORMATION:

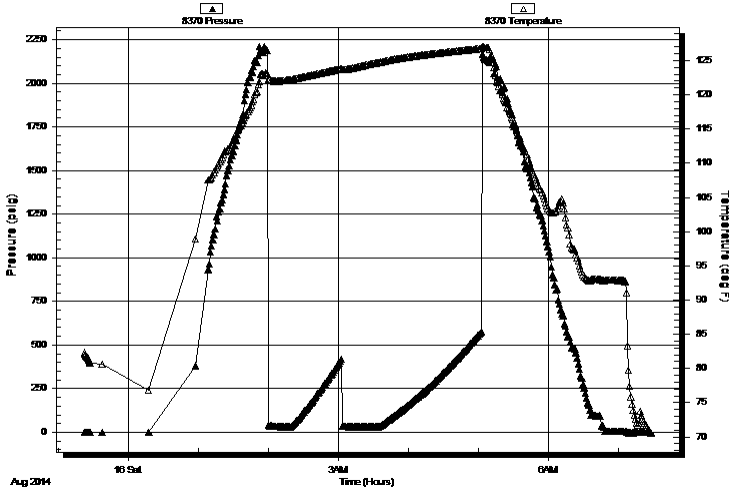
Formation: **Viola**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:01:01  
 Time Test Ended: 07:30:31  
 Interval: **4536.00 ft (KB) To 4572.00 ft (KB) (TVD)**  
 Total Depth: 4572.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Gary Pevoteaux  
 Unit No: 56  
 Reference Elevations: 1536.00 ft (KB)  
 1528.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8370 Inside

Press@RunDepth: psig @ 4537.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.08.15 End Date: 2014.08.16 Last Calib.: 2014.08.16  
 Start Time: 23:22:34 End Time: 07:27:43 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF:Weak to fair blow . Increase to 7"  
 IS:No blow .  
 FF:Fair blow .5 - 6". Increasing to 10".  
 FS:No blow .

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	OCM4%o 96%m/Clean oil@ top of tool	0.15
0.00	335 ft.of GIP	0.00

\* 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 Inc.

**34-31s-12w Barber Ks.**

2020 N.Tyler RD. Ste.106  
Wichita Ks.67212

**Wheelock A#2**

Job Ticket: 54245

**DST#: 3**

ATTN: Kent Roberts

Test Start: 2014.08.15 @ 23:29:01

## 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:

8000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	OCM4%o 96%m/Clean oil@ top of tool	0.148
0.00	335 ft.of GIP	0.000

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

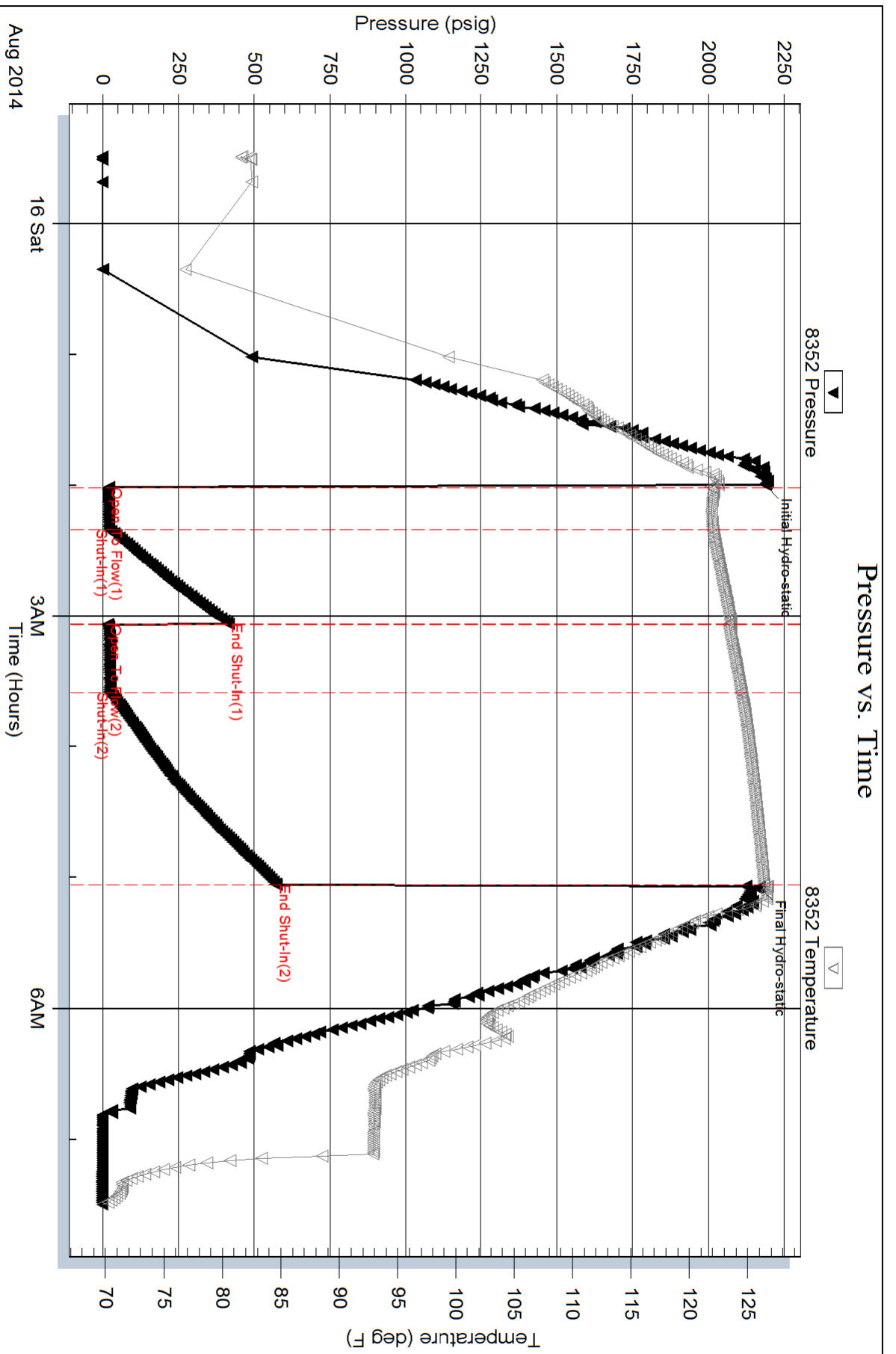
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8370

Inside

Roberts Resources Inc.

Whelock A#2

DST Test Number: 3

