



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1179301  
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: \_\_\_\_\_

1179301

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

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Blue Ridge Petroleum Corporation
Well Name	RULE 1-31
Doc ID	1179301

All Electric Logs Run

Micro
Sonic
Dual Induction
CDN





**CONSOLIDATED**  
Oil Well Services, LLC

263709

TICKET NUMBER 44391

LOCATION Oakley

FOREMAN Danen

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

Ko.

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/4/13	1617	Rule 1-31	31	25	24w	Norton
CUSTOMER Blue Ridge			Norton 9 1/4 W N into			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			463	Cory		
STATE			693	Jeremy S		
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 266 CASING SIZE & WEIGHT 8 5/8 24\*  
 CASING DEPTH 263 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14 1/2 SLURRY VOL 1.34 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 15.47 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting Rig upon L-D #1 Run Casing Break Circulation with Rig Pump Hookup To Pump Truck mix 225 SKs Class "A" 3% CC 2% Gel Displace With 15.47 bbl water Shut in Cement Did Circulate

Approx 10 bbl To pit

Thanks Danen & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 S	1	PUMP CHARGE	\$ 1150.00	\$ 1150.00 ✓
5406	60	MILEAGE	\$ 5.25	\$ 315.00 ✓
5407 A	10.6	Ten Mileage Delivery	\$ 1.75	\$ 113.00 ✓
1104 S	225 SKs	Class "A" Cement	\$ 18.55	\$ 4173.75 ✓
1102	635 #	Calcium Chloride	\$ .94	\$ 596.70 ✓
1118 B	423 #	Bentonite	\$ .27	\$ 114.21 ✓
			Subtotal	\$ 7462.86 ✓
			Less 10 %	\$ 746.29 ✓
				\$ 6716.57 ✓
			SALES TAX	303.35 ✓
			ESTIMATED TOTAL	7019.92 ✓

**Completed**

AUTHORIZATION Rhd Wade

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7008

Date	11-12-13	Sec.	31	Twp.	2	Range	24	County	Norton	State	KS	On Location		Finish	10:45 PM
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Location Norton 9W N into

Lease	Rule	Well No.	1-31	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	LD Drilling			Charge To	Blue Ridge petroleum
Type Job	Top Stage	T.D.	3747	Street	
Hole Size	7 7/8	Depth	1980'	City	State
Csg.	5 1/2	Depth	1980'	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Shoe Joint		Cement Amount Ordered	450 sx QMDC 1/4 Flo
Tool	DV	Displace	48 1/2 bbl	Used	370 sx QMDC 1/4 Flo
Cement Left in Csg.				Common	370 QMDC
Meas Line				Poz. Mix	

**EQUIPMENT**

Pumptrk	16	No.	Cementer		
			Helper	Billy	
Bulktrk	14	No.	Driver	David	
			Driver		
Bulktrk	14	No.	Driver	Brett	
			Driver		

**JOB SERVICES & REMARKS**

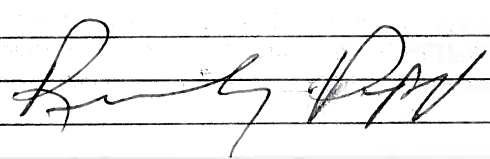
Remarks:		Hulls	
Rat Hole	30 sx	Salt	
Mouse Hole		Flowseal	112#
Centralizers		Kol-Seal	
Baskets		Mud CLR 48	
DV	@ 1980'	CFL-117 or CD110 CAF 38	
		Sand	
		Handling	430
		Mileage	

Mix 315 sx QMDC  
Displaced 44 1/2 bbl  
Lift Pressure 500 lbs  
Landed @ 1200 lbs  
Cement Circulated !!

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	prod Long String	Top Stage
Mileage	46	

X Signature 

Tax	
Discount	
Total Charge	



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7007

Date	11-12-13	Sec.	31	Twp.	2	Range	24	County	Norton	State	KS	On Location		Finish	9:45 PM
								Location Norton 9W N into							

Lease Rule	Well No. 1-31	Owner
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Contractor LD Drilling		Owner
Type Job Bottom Stage		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 7 7/8	T.D. 3747'	Charge To Blue Ridge Petroleum
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Csg. 5 1/2	Depth 3746'	Street
Tbg. Size	Depth	City State

Tool DV Tool	Depth 1990'	The above was done to satisfaction and supervision of owner agent or contractor.
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Cement Left in Csg. 42.11	Shoe Joint 42.11	Cement Amount Ordered 125 ex Q-Pro C 10% Salt + 5% Gilsomite
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Meas Line	Displace 90 bbl	Common 125 Q pro-c
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EQUIPMENT		Poz. Mix
Pumptrk 16 No. Cementer Billy		
Bulktrk 14 No. Driver Dong	David	Gel.
Bulktrk PU No. Driver Brett		Calcium

JOB SERVICES & REMARKS		Hulls
------------------------	--	-------

Remarks:	Salt 11
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Rat Hole	Flowseal
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Mouse Hole	Kol-Seal 625#
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Centralizers - 1,2,3,4,5 + 43	Mud CLR 48 - 500 Gal
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Baskets - 41 + 42	CFL-117 or CD110 CAF 38
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D/V <del>42</del> 42 @ 1980'	Sand
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	Handling 142
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	Mileage 5 1/2	FLOAT EQUIPMENT
--	---------------	-----------------

	Guide Shoe	
--	------------	--

	Centralizer - 6	
--	-----------------	--

	Baskets - 2	
--	-------------	--

	AFU Inserts	
--	-------------	--

	Float Shoe - 1	
--	----------------	--

	Latch Down - 1	
--	----------------	--

	Rubber Plug - 2	
	DV Tool - 1	Bottom Stage
	Pumptrk Charge proal long string	
	Mileage 47	

X Signature *D. J. Mayo*

Tax  
Discount  
Total Charge



## DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum Corp.**

PO Box 1913  
Enid, OK 73702+1913

ATTN: Wyatt Urban/Jim Musg

### **Rule #1-31**

### **31-2s-24w Norton,KS**

Start Date: 2013.11.08 @ 23:50:00

End Date: 2013.11.09 @ 06:34:00

Job Ticket #: 55013                      DST #: 1

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

Printed: 2013.11.13 @ 13:46:06





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55013

**DST#: 1**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.08 @ 23:50:00

## GENERAL INFORMATION:

Formation: **LKC "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:55:15

Time Test Ended: 06:34:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 150

**Interval: 3391.00 ft (KB) To 3435.00 ft (KB) (TVD)**

Reference Elevations: 2421.00 ft (KB)

Total Depth: 3435.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 120.34 psig @ 3392.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.08

End Date:

2013.11.09

Last Calib.:

2013.11.09

Start Time:

23:50:05

End Time:

06:33:59

Time On Btm:

2013.11.09 @ 01:55:00

Time Off Btm:

2013.11.09 @ 04:45:30

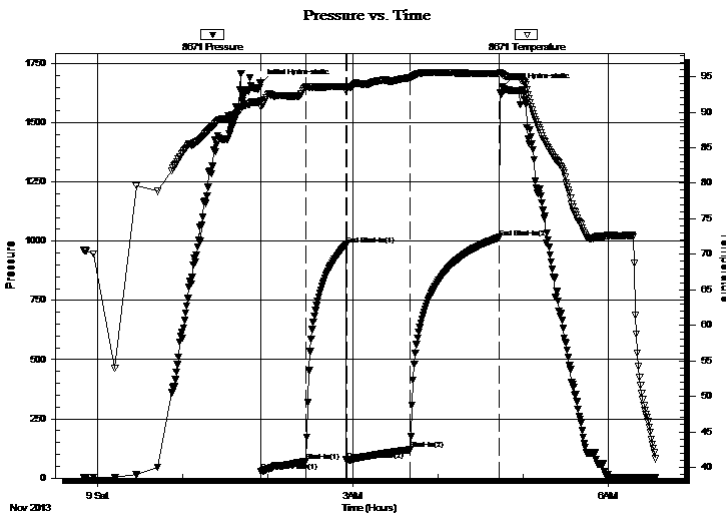
TEST COMMENT: 30 - IF: Blow built to BOB (11") in 26 min.

30 - IS: No blow back

45 - FF: Blow built to BOB in 43 min.

60 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.49	91.55	Initial Hydro-static
1	27.33	90.82	Open To Flow (1)
32	71.20	93.58	Shut-In(1)
60	984.00	93.59	End Shut-In(1)
61	74.66	93.29	Open To Flow (2)
106	120.34	94.88	Shut-In(2)
169	1015.70	95.38	End Shut-In(2)
171	1649.84	95.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	MCW w/trace oil 77%w, 23%m	1.77
94.00	WM w/trace oil 59%m, 41%w	1.32

## Gas Rates

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



# DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55013

**DST#: 1**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.08 @ 23:50:00

## GENERAL INFORMATION:

Formation: **LKC "A - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:55:15

Time Test Ended: 06:34:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 150

**Interval: 3391.00 ft (KB) To 3435.00 ft (KB) (TVD)**

Reference Elevations: 2421.00 ft (KB)

Total Depth: 3435.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8320** Outside

Press@RunDepth: psig @ 3392.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.08

End Date: 2013.11.09

Last Calib.: 2013.11.09

Start Time: 23:50:05

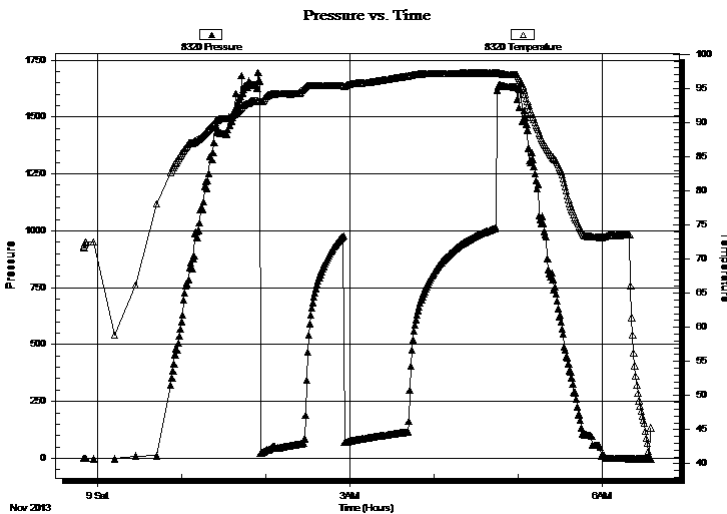
End Time: 06:34:29

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF: Blow built to BOB (11") in 26 min.  
30 - IS! No blow back  
45 - FF: Blow built to BOB in 43 min.  
60 - FS! No blow back

## PRESSURE SUMMARY



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

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
126.00	MCW w /trace oil 77%w, 23% m	1.77
94.00	WM w /trace oil 59% m, 41% w	1.32

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55013

**DST#: 1**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.08 @ 23:50:00

## Tool Information

Drill Pipe:	Length: 3395.00 ft	Diameter: 3.80 inches	Volume: 47.62 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 47.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3391.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3368.00	
Hydraulic tool	5.00			3373.00	
Jars	5.00			3378.00	
Safety Joint	3.00			3381.00	
Packer	5.00			3386.00	28.00 Bottom Of Top Packer
Packer	5.00			3391.00	
Stubb	1.00			3392.00	
Recorder	0.00	8671	Inside	3392.00	
Recorder	0.00	8320	Outside	3392.00	
Perforations	6.00			3398.00	
Blank Spacing	34.00			3432.00	
Bullnose	3.00			3435.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55013

**DST#: 1**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.08 @ 23:50:00

## 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:

66000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	MCW w /trace oil 77%w , 23%m	1.767
94.00	WM w /trace oil 59%m, 41%w	1.319

Total Length: 220.00 ft      Total Volume: 3.086 bbl

Num Fluid Samples: 0

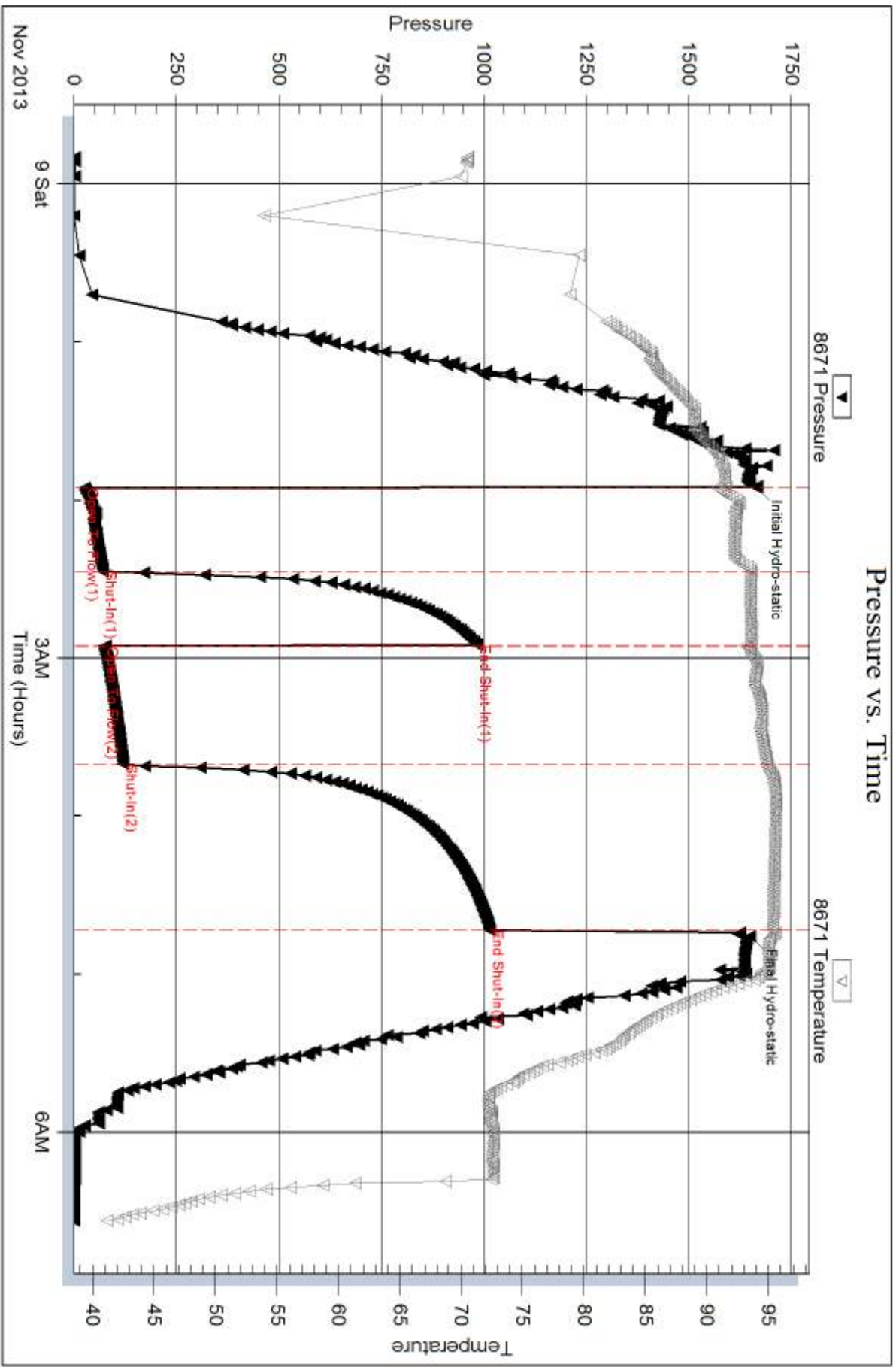
Num Gas Bombs: 0

Serial #:

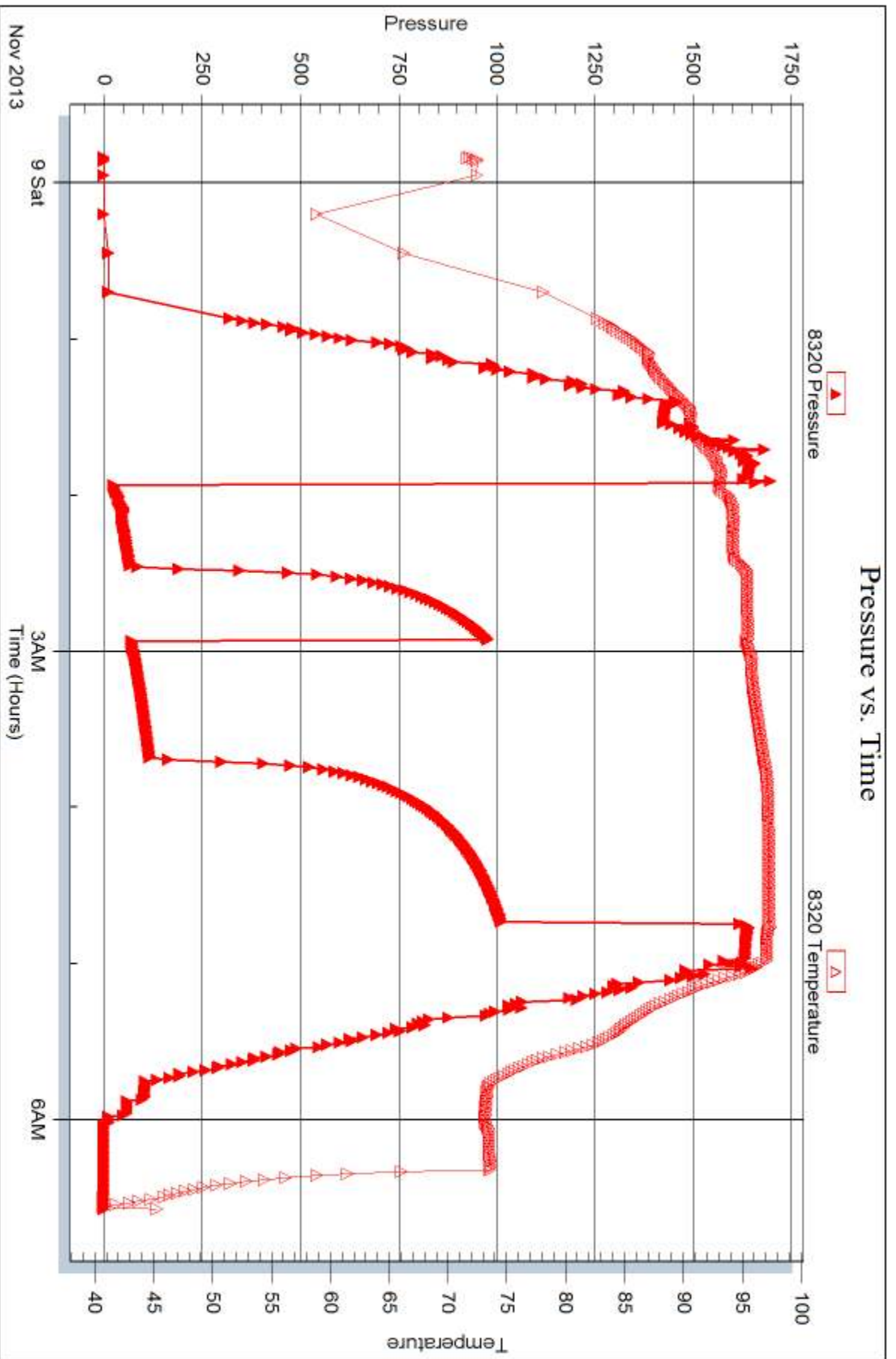
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .180 ohms @ 45.5 deg F









## DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum Corp.**

PO Box 1913  
Enid, OK 73702+1913

ATTN: Wyatt Urban/Jim Musg

### **Rule #1-31**

### **31-2s-24w Norton,KS**

Start Date: 2013.11.09 @ 17:06:00

End Date: 2013.11.09 @ 22:40:00

Job Ticket #: 55014                      DST #: 2

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

Printed: 2013.11.13 @ 13:45:27



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55014

**DST#: 2**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.09 @ 17:06:00

## GENERAL INFORMATION:

Formation: **LKC "D - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:30

Time Test Ended: 22:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 150

**Interval: 3435.00 ft (KB) To 3484.00 ft (KB) (TVD)**

Reference Elevations: 2421.00 ft (KB)

Total Depth: 3484.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 21.50 psig @ 3436.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.09

End Date:

2013.11.09

Last Calib.:

2013.11.09

Start Time:

17:06:05

End Time:

22:39:59

Time On Btm:

2013.11.09 @ 19:03:15

Time Off Btm:

2013.11.09 @ 21:05:30

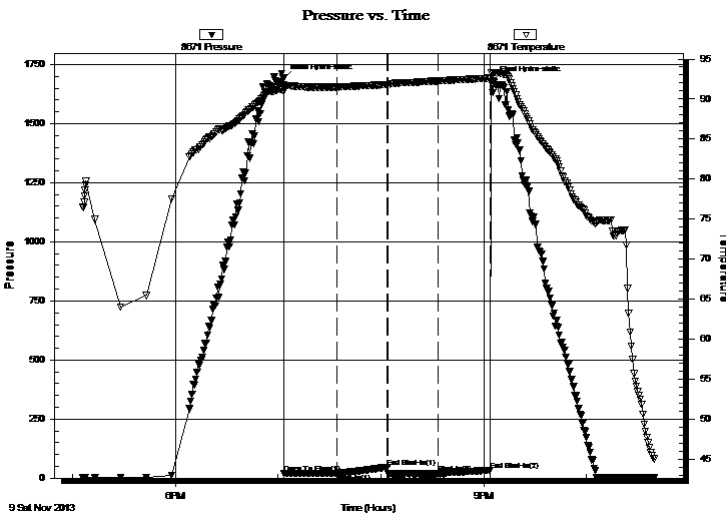
**TEST COMMENT:** 30 - IF: 1/8" Blow at open, built slightly then died back, dead at 18 min.

30 - IS: No blow back

30 - FF: No blow

30 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.99	91.82	Initial Hydro-static
1	20.24	90.95	Open To Flow (1)
32	20.75	91.52	Shut-In(1)
61	47.07	91.82	End Shut-In(1)
61	20.95	91.82	Open To Flow (2)
90	21.50	92.27	Shut-In(2)
121	33.72	92.61	End Shut-In(2)
123	1680.55	93.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03
0.00	Oil spots in tool	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55014

**DST#: 2**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.09 @ 17:06:00

## GENERAL INFORMATION:

Formation: **LKC "D - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:30

Time Test Ended: 22:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 150

**Interval: 3435.00 ft (KB) To 3484.00 ft (KB) (TVD)**

Reference Elevations: 2421.00 ft (KB)

Total Depth: 3484.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: psig @ 3436.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.09 End Date: 2013.11.09

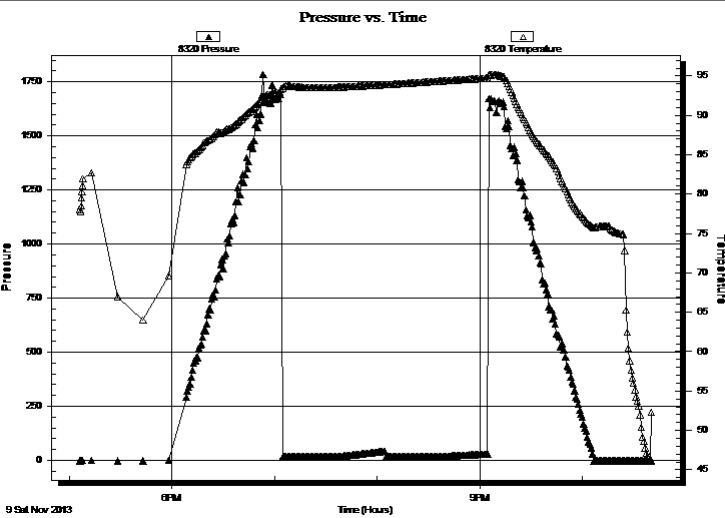
Last Calib.: 2013.11.09

Start Time: 17:06:05 End Time: 22:40:29

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF: 1/8" Blow at open, built slightly then died back, dead at 18 min.  
30 - IS: No blow back  
30 - FF: No blow  
30 - FS: No blow back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.03
0.00	Oil spots in tool	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55014

**DST#: 2**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.09 @ 17:06:00

## Tool Information

Drill Pipe:	Length: 3426.00 ft	Diameter: 3.80 inches	Volume: 48.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 48.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3435.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3412.00	
Hydraulic tool	5.00			3417.00	
Jars	5.00			3422.00	
Safety Joint	3.00			3425.00	
Packer	5.00			3430.00	28.00 Bottom Of Top Packer
Packer	5.00			3435.00	
Stubb	1.00			3436.00	
Recorder	0.00	8671	Inside	3436.00	
Recorder	0.00	8320	Outside	3436.00	
Perforations	11.00			3447.00	
Blank Spacing	34.00			3481.00	
Bullnose	3.00			3484.00	49.00 Bottom Packers & Anchor

**Total Tool Length: 77.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55014

**DST#: 2**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.09 @ 17:06:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 50.00 sec/qt  
Water Loss: 6.37 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud 100%	0.028
0.00	Oil spots in tool	0.000

Total Length: 2.00 ft      Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

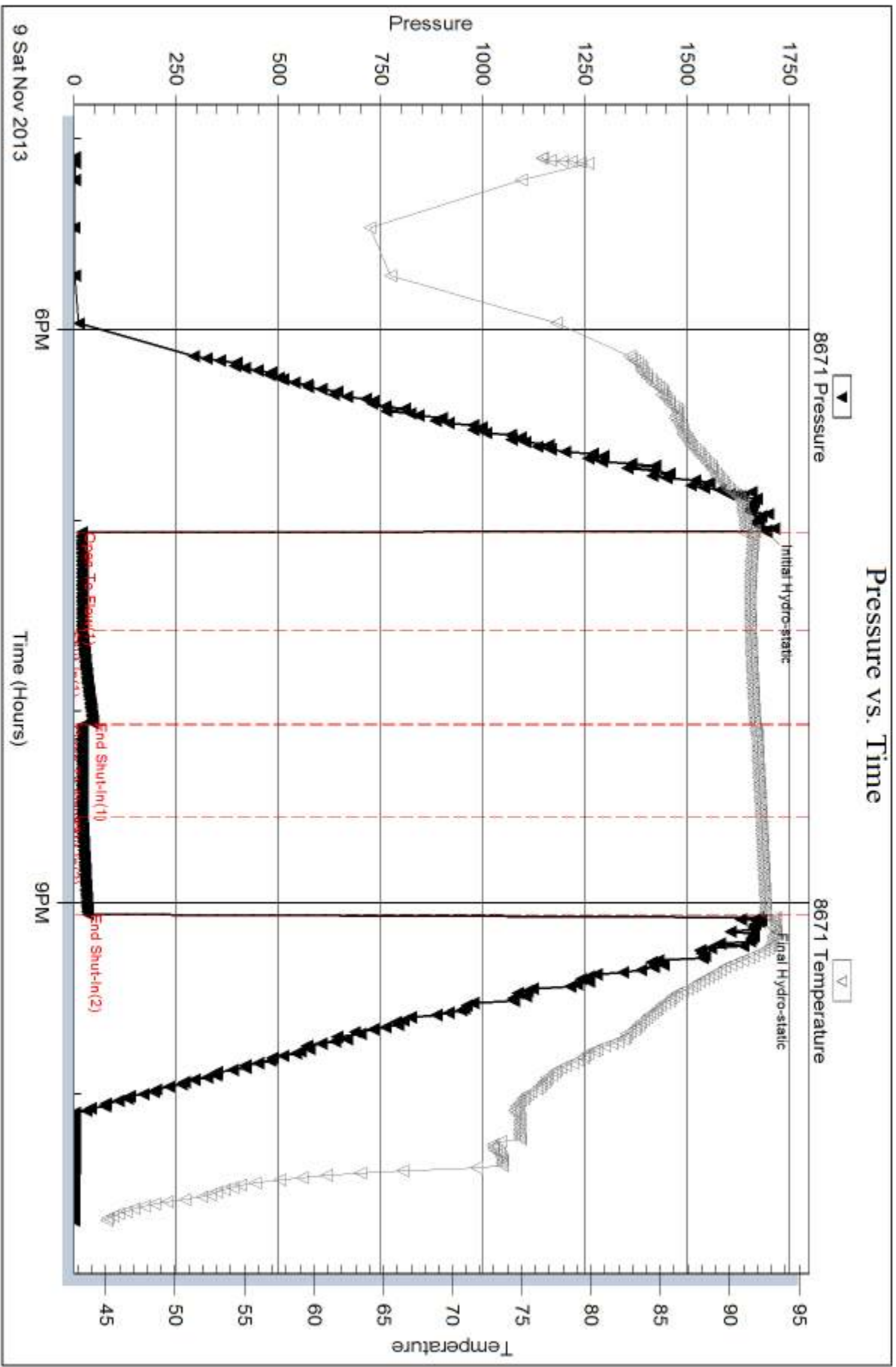
Serial #: 8671

Inside

Blue Ridge Petroleum Corp.

Rule #1-31

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 55014

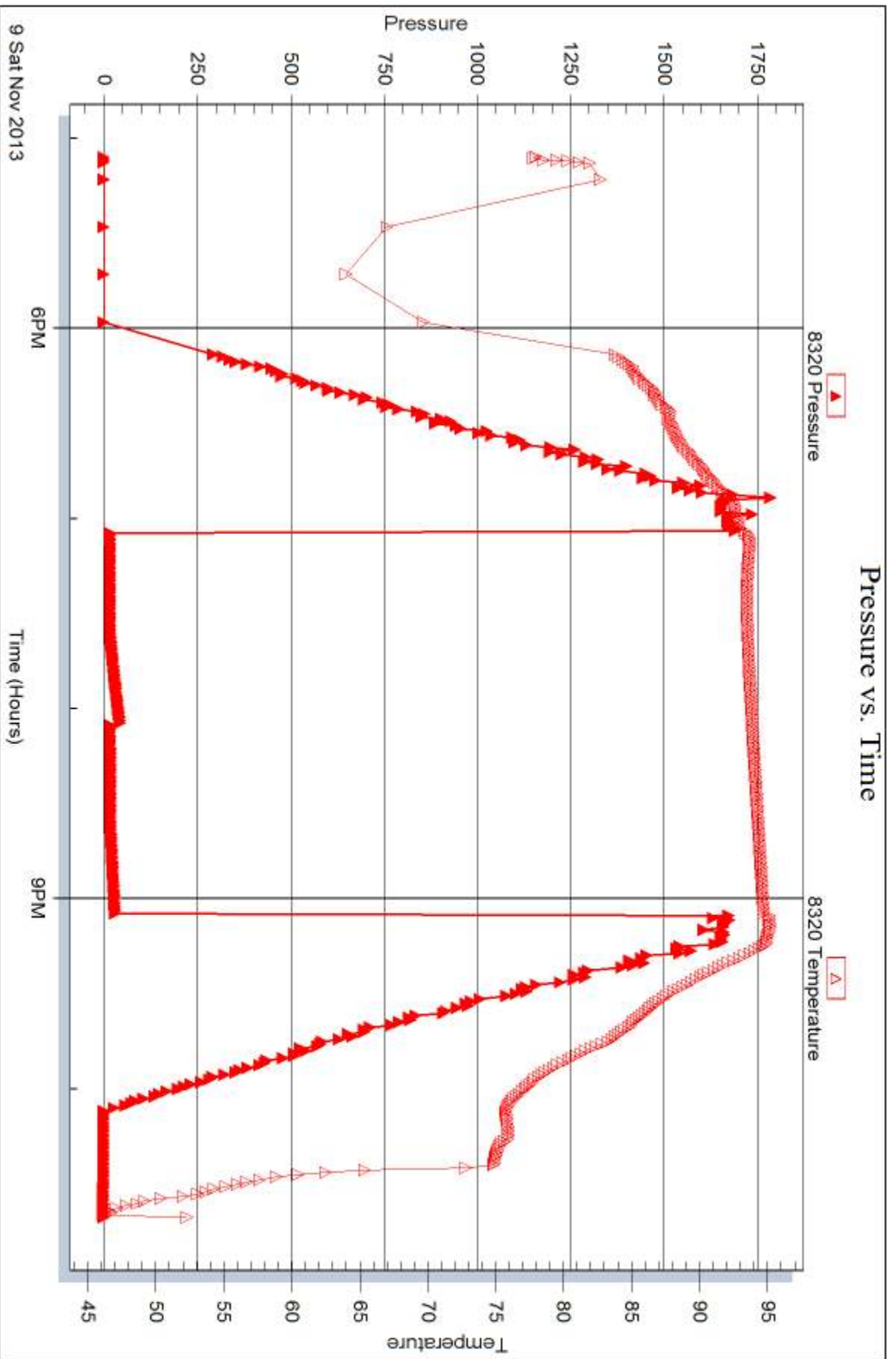
Printed: 2013.11.13 @ 13:45:29

Serial #: 8320

Outside Blue Ridge Petroleum Corp.

Rule #1-31

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 55014

Printed: 2013.11.13 @ 13:45:29



## DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum Corp.**

PO Box 1913  
Enid, OK 73702+1913

ATTN: Wyatt Urban/Jim Musg

### **Rule #1-31**

### **31-2s-24w Norton,KS**

Start Date: 2013.11.10 @ 14:10:00

End Date: 2013.11.10 @ 19:49:00

Job Ticket #: 55015                      DST #: 3

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

Printed: 2013.11.13 @ 13:45:00



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

**31-2s-24w Norton, KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55015

**DST#: 3**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.10 @ 14:10:00

## GENERAL INFORMATION:

Formation: **LKC "H - L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:13:15

Time Test Ended: 19:49:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 150

**Interval: 3490.00 ft (KB) To 3590.00 ft (KB) (TVD)**

Reference Elevations: 2421.00 ft (KB)

Total Depth: 3590.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 24.76 psig @ 3491.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.10

End Date:

2013.11.10

Last Calib.:

2013.11.10

Start Time: 14:10:05

End Time:

19:48:59

Time On Btm:

2013.11.10 @ 16:12:45

Time Off Btm:

2013.11.10 @ 18:18:15

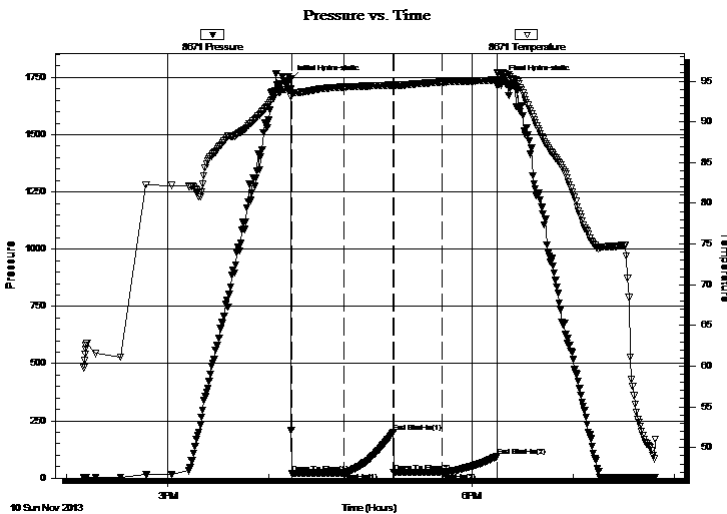
TEST COMMENT: 30 - IF: 1/4" blow at open, built to just over 1"

30 - IS: No blow back

30 - FF: No blow

30 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.42	94.04	Initial Hydro-static
1	21.48	93.47	Open To Flow (1)
32	23.24	94.27	Shut-In(1)
61	199.59	94.52	End Shut-In(1)
62	24.36	94.49	Open To Flow (2)
90	24.76	94.90	Shut-In(2)
123	95.41	95.14	End Shut-In(2)
126	1742.12	96.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
6.00	Mud w /trace of oil 100%m	0.08

## Gas Rates

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

\* Recovery from multiple tests





# DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

**31-2s-24w Norton, KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55015

**DST#: 3**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.10 @ 14:10:00

**GENERAL INFORMATION:**

Formation: **LKC "H - L"**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 16:13:15

Tester: James Winder

Time Test Ended: 19:49:00

Unit No: 150

Interval: **3490.00 ft (KB) To 3590.00 ft (KB) (TVD)**

Reference Elevations: 2421.00 ft (KB)

Total Depth: 3590.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: psig @ 3491.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.10 End Date: 2013.11.10

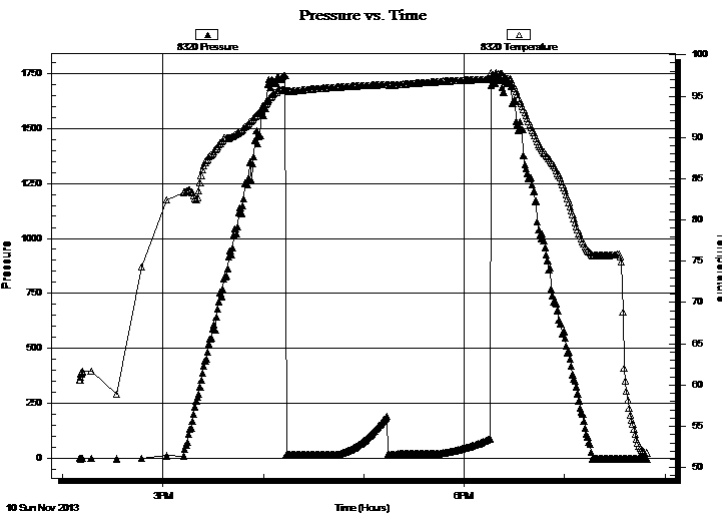
Last Calib.: 2013.11.10

Start Time: 14:10:05 End Time: 19:49:14

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF: 1/4" blow at open, built to just over 1"  
30 - ISI: No blow back  
30 - FF: No blow  
30 - FSI: No blow back



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
6.00	Mud w /trace of oil 100%m	0.08

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55015

**DST#: 3**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.10 @ 14:10:00

## Tool Information

Drill Pipe:	Length: 3489.00 ft	Diameter: 3.80 inches	Volume: 48.94 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 48.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3490.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	128.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3467.00	
Hydraulic tool	5.00			3472.00	
Jars	5.00			3477.00	
Safety Joint	3.00			3480.00	
Packer	5.00			3485.00	28.00 Bottom Of Top Packer
Packer	5.00			3490.00	
Stubb	1.00			3491.00	
Recorder	0.00	8671	Inside	3491.00	
Recorder	0.00	8320	Outside	3491.00	
Perforations	29.00			3520.00	
Blank Spacing	66.00			3586.00	
Perforations	1.00			3587.00	
Bullnose	3.00			3590.00	100.00 Bottom Packers & Anchor

**Total Tool Length: 128.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55015

**DST#: 3**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.10 @ 14:10:00

### 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
6.00	Mud w /trace of oil 100%m	0.084

Total Length: 6.00 ft      Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

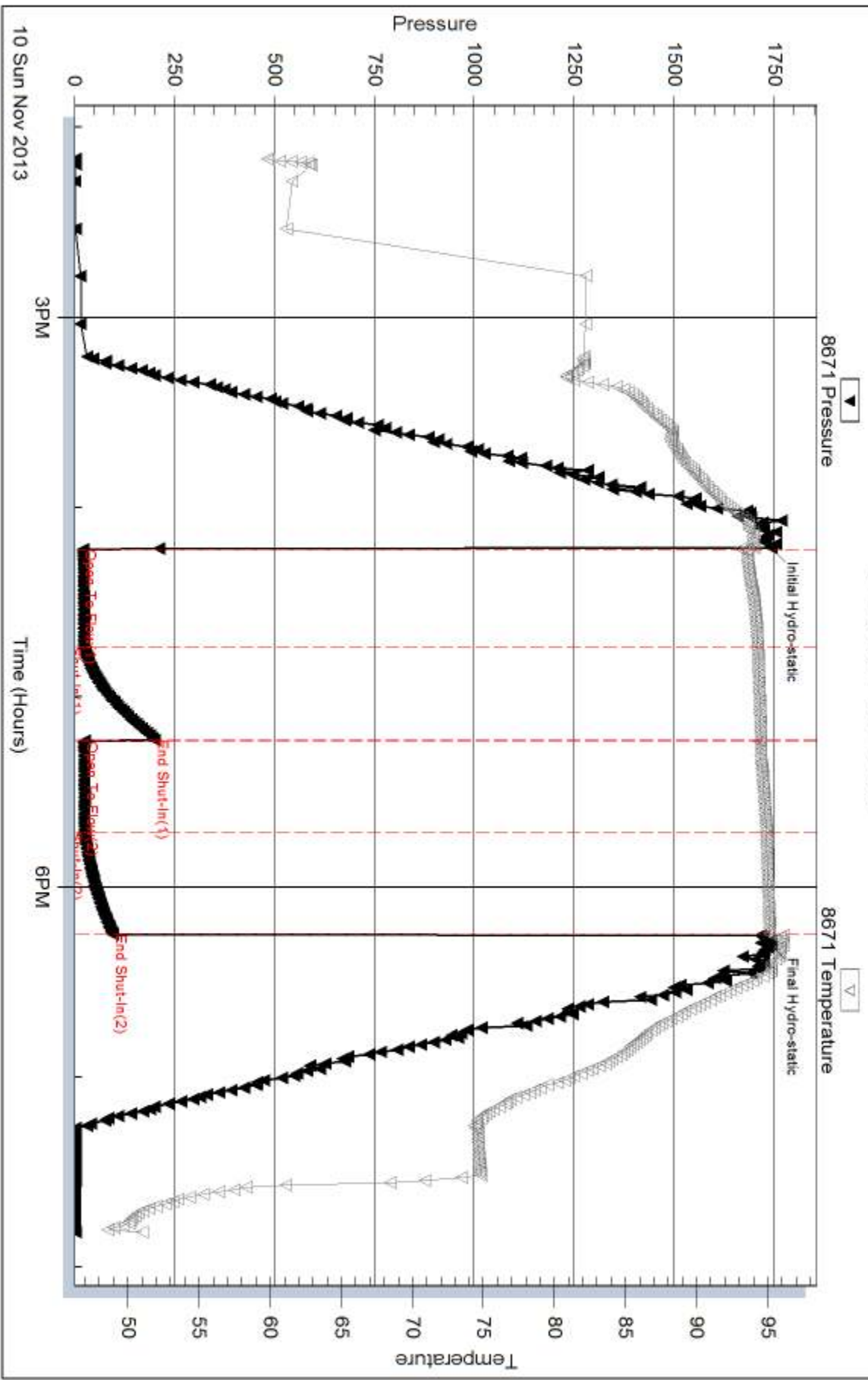
Serial #:

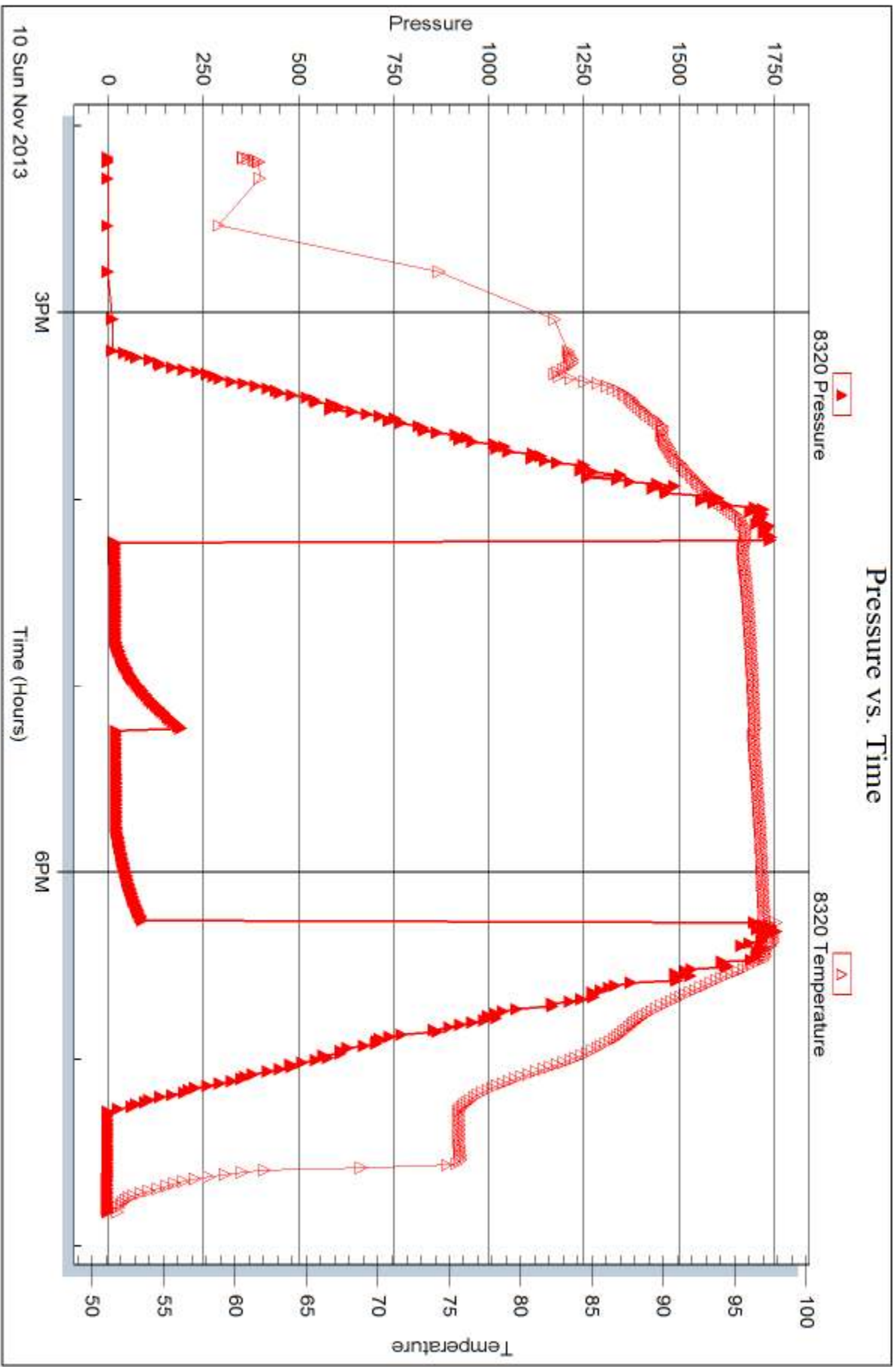
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum Corp.**

PO Box 1913  
Enid, OK 73702+1913

ATTN: Wyatt Urban/Jim Musg

### **Rule #1-31**

### **31-2s-24w Norton,KS**

Start Date: 2013.11.11 @ 12:02:00

End Date: 2013.11.11 @ 18:17:45

Job Ticket #: 55016                      DST #: 4

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

Printed: 2013.11.13 @ 13:39:25



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

**31-2s-24w Norton, KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55016

**DST#: 4**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.11 @ 12:02:00

## GENERAL INFORMATION:

Formation: **Granite Wash**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:05:30

Time Test Ended: 18:17:45

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 150

**Interval: 3584.00 ft (KB) To 3684.00 ft (KB) (TVD)**

Reference Elevations: 2421.00 ft (KB)

Total Depth: 3897.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 173.51 psig @ 3585.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.11

End Date:

2013.11.11

Last Calib.:

2013.11.11

Start Time:

12:02:05

End Time:

18:17:44

Time On Btm:

2013.11.11 @ 14:05:15

Time Off Btm:

2013.11.11 @ 16:00:45

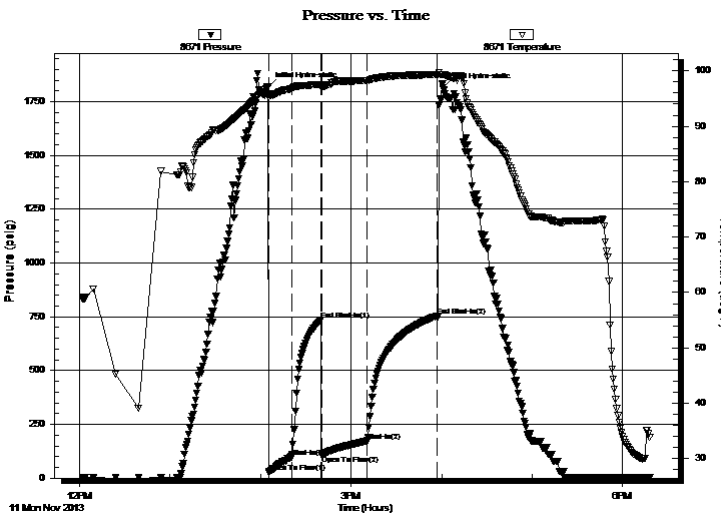
TEST COMMENT: 15 - IF: Blow built to BOB (11") in 8 1/2 min.

20 - IS: No blow back

30 - FF: Blow built to BOB in 7 min.

45 - FS: Blow back built to 7 1/2"

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.61	95.93	Initial Hydro-static
1	26.66	95.15	Open To Flow (1)
16	98.78	96.87	Shut-In(1)
35	735.28	97.55	End Shut-In(1)
35	105.20	97.16	Open To Flow (2)
66	173.51	98.24	Shut-In(2)
112	754.21	99.31	End Shut-In(2)
116	1815.18	99.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
255.00	GOCM 50%o, 33%o, 17%g	3.58
95.00	GMCO 56%o, 36%o, 8%g	1.33
0.00	GIP = 285'	0.00

## Gas Rates

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

\* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

31-2s-24w Norton, KS

PO Box 1913
Enid, OK 73702+1913

Rule #1-31

Job Ticket: 55016

DST#: 4

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.11 @ 12:02:00

GENERAL INFORMATION:

Formation: Granite Wash

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:05:30

Time Test Ended: 18:17:45

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 150

Interval: 3584.00 ft (KB) To 3684.00 ft (KB) (TVD)

Total Depth: 3897.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2421.00 ft (KB)

2416.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 3585.00 ft (KB)

Start Date: 2013.11.11 End Date: 2013.11.11

Start Time: 12:02:05 End Time: 18:18:59

Capacity: 8000.00 psig

Last Calib.: 2013.11.11

Time On Btm:

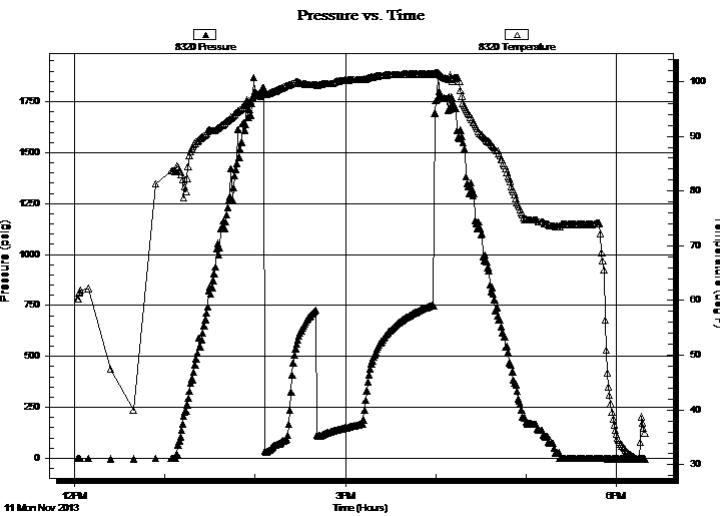
Time Off Btm:

TEST COMMENT: 15 - IF: Blow built to BOB (11") in 8 1/2 min.

20 - ISI: No blow back

30 - FF: Blow built to BOB in 7 min.

45 - FS: Blow back built to 7 1/2"



PRESSURE SUMMARY

Table with 4 columns: Time (Min.), Pressure (psig), Temp (deg F), Annotation

Recovery

Table with 3 columns: Length (ft), Description, Volume (bbl)

Gas Rates

Table with 4 columns: Choke (inches), Pressure (psig), Gas Rate (Mcf/d)

\* Recovery from multiple tests



# DRILL STEM TEST REPORT

Blue Ridge Petroleum Corp.

**31-2s-24w Norton, KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55016

**DST#: 4**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.11 @ 12:02:00

## GENERAL INFORMATION:

Formation: **Granite Wash**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:05:30

Time Test Ended: 18:17:45

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 150

**Interval: 3584.00 ft (KB) To 3684.00 ft (KB) (TVD)**

Reference Elevations: 2421.00 ft (KB)

Total Depth: 3897.00 ft (KB) (TVD)

2416.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8366 Below (Straddle)**

Press@RunDepth: psig @ 3685.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.11

End Date:

2013.11.11

Last Calib.:

2013.11.11

Start Time: 12:02:05

End Time:

18:16:14

Time On Btm:

Time Off Btm:

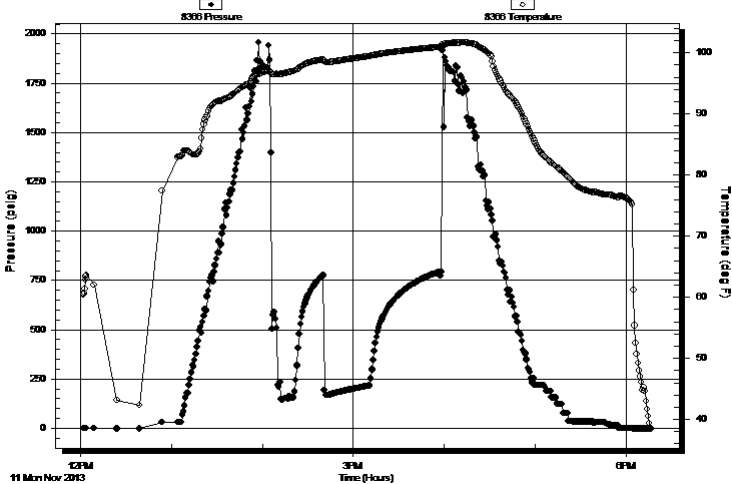
TEST COMMENT: 15 - IF: Blow built to BOB (11") in 8 1/2 min.

20 - ISI: No blow back

30 - FF: Blow built to BOB in 7 min.

45 - FS: Blow back built to 7 1/2"

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
255.00	GOCM 50% <i>m</i> , 33% <i>o</i> , 17% <i>g</i>	3.58
95.00	GMCO 56% <i>o</i> , 36% <i>m</i> , 8% <i>g</i>	1.33
0.00	GIP = 285'	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55016

**DST#: 4**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.11 @ 12:02:00

## Tool Information

Drill Pipe:	Length: 3585.00 ft	Diameter: 3.80 inches	Volume: 50.29 bbl	Tool Weight: 4000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 50.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3584.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	3684.00 ft			
Interval between Packers:	100.00 ft			
Tool Length:	141.00 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			3561.00	
Hydraulic tool	5.00			3566.00	
Jars	5.00			3571.00	
Safety Joint	3.00			3574.00	
Packer	5.00			3579.00	28.00 Bottom Of Top Packer
Packer	5.00			3584.00	
Stubb	1.00			3585.00	
Recorder	0.00	8671	Inside	3585.00	
Recorder	0.00	8320	Outside	3585.00	
Perforations	5.00			3590.00	
Blank Spacing	65.00			3655.00	
Perforations	24.00			3679.00	
Blank Off Sub	1.00			3680.00	
Blank Spacing	4.00			3684.00	100.00 Tool Interval
Packer	0.00			3684.00	
Packer - Shale	0.00			3684.00	
Stubb	1.00			3685.00	
Recorder	0.00	8366	Below	3685.00	
Perforations	9.00			3694.00	
Bullnose	3.00			3697.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 141.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Blue Ridge Petroleum Corp.

**31-2s-24w Norton,KS**

PO Box 1913  
Enid, OK 73702+1913

**Rule #1-31**

Job Ticket: 55016

**DST#: 4**

ATTN: Wyatt Urban/Jim Musg

Test Start: 2013.11.11 @ 12:02:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 6.39 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1500.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
255.00	GOCM 50% <i>m</i> , 33% <i>o</i> , 17% <i>g</i>	3.577
95.00	GMCO 56% <i>o</i> , 36% <i>m</i> , 8% <i>g</i>	1.333
0.00	GIP = 285'	0.000

Total Length: 350.00 ft      Total Volume: 4.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8671

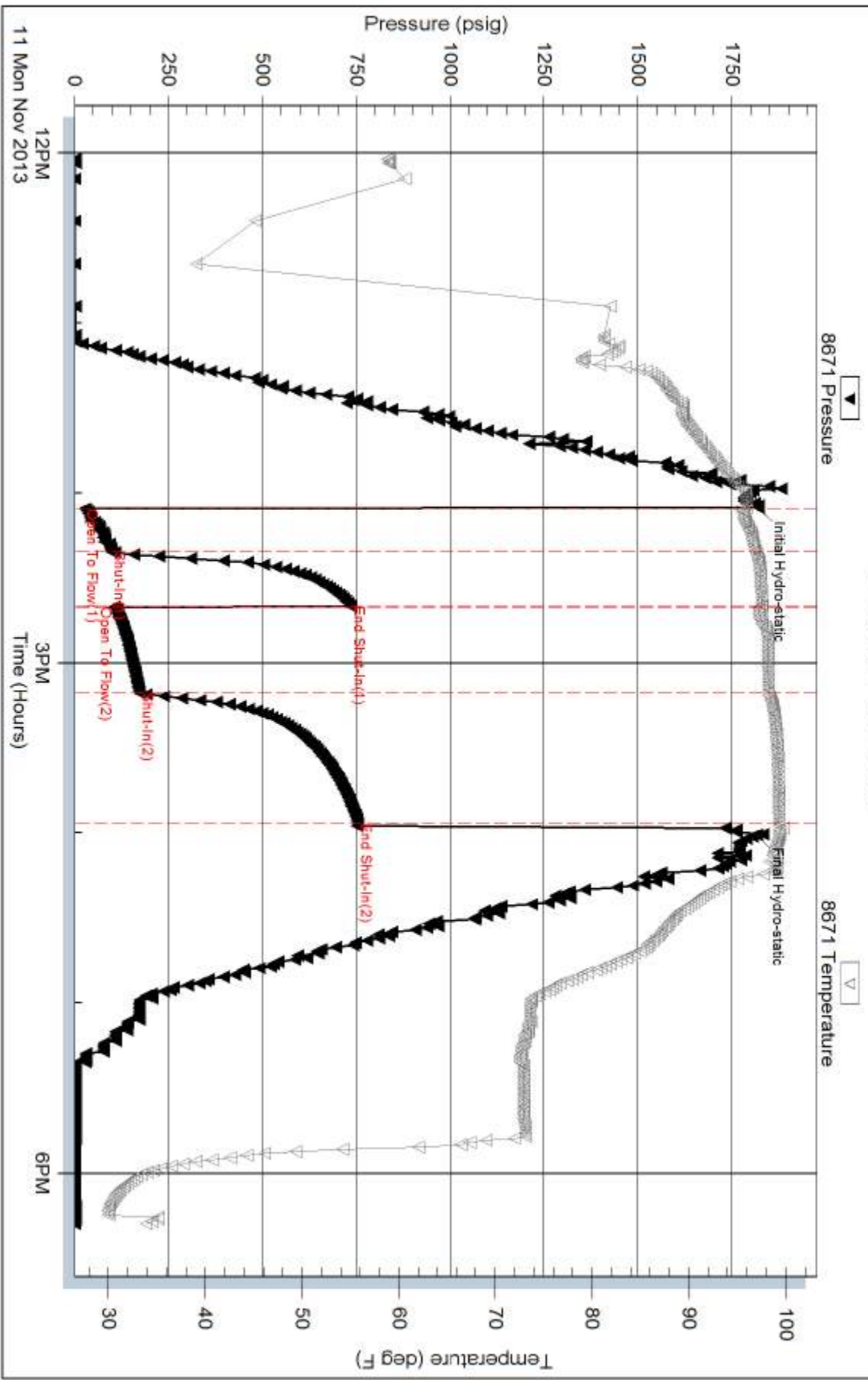
Inside

Blue Ridge Petroleum Corp.

Rule #1-31

DST Test Number: 4

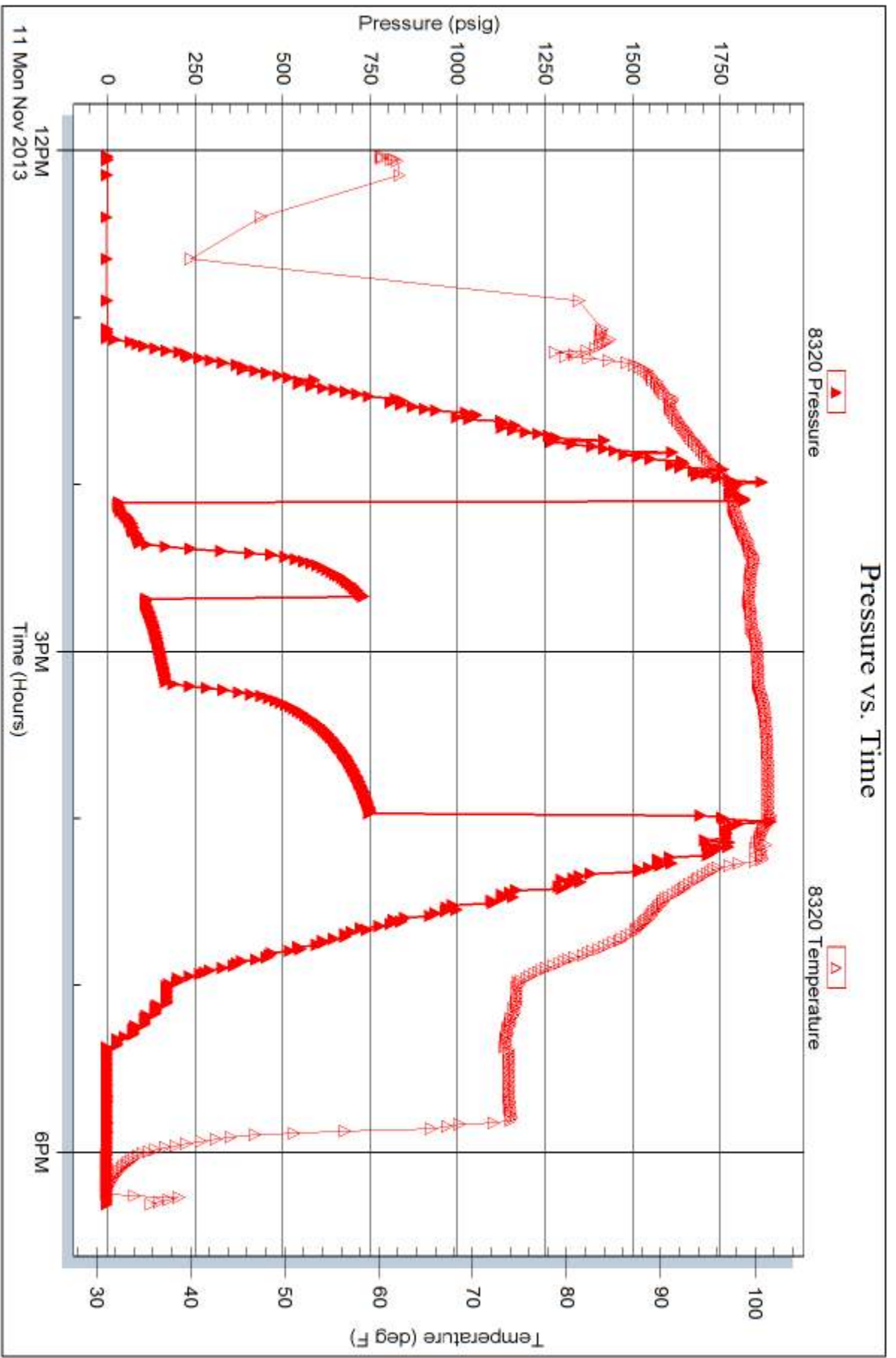
### Pressure vs. Time



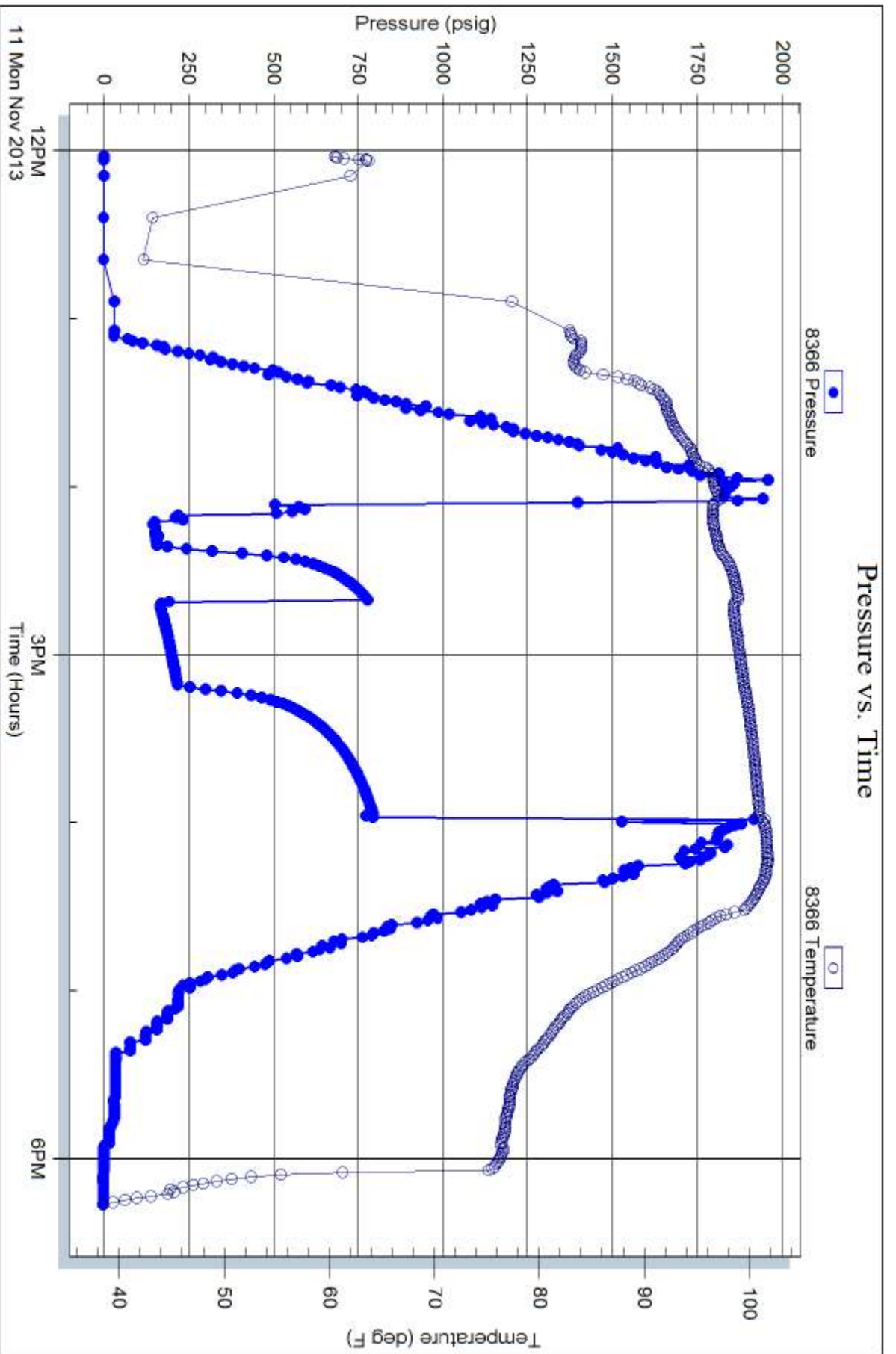
11 Mon Nov 2013

3PM

6PM









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55013**

Well Name & No. Rule #1-31 Test No. 1 Date 11-8-13  
 Company Blue Ridge Petroleum Corp Elevation 2421 KB 2416 GL  
 Address PO Box 1913 Enid OK 73702-1913  
 Co. Rep / Geo. Wyatt Urban Rig LD #1  
 Location: Sec. 31 Twp. 2S Rge. 24W Co. Norton State KS

Interval Tested 3391-3435 Zone Tested Lan "A-C"  
 Anchor Length 44 Drill Pipe Run 3395 Mud Wt. 8.9  
 Top Packer Depth 3386 Drill Collars Run - Vis 48  
 Bottom Packer Depth 3391 Wt. Pipe Run - WL 5.8  
 Total Depth 3435 Chlorides 700 ppm System LCM 2

Blow Description IF: Blow built to BOB (11") in 26 min.  
ISI: No blowback  
FF: Blow built to BOB in 43 min.  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>94</u>	<u>WM w/trace of oil</u>	<u>trace</u>	<u>41</u>	<u>59</u>	<u></u>
<u>126</u>	<u>MCW w/trace of oil</u>	<u>trace</u>	<u>77</u>	<u>23</u>	<u></u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 220 BHT 95 Gravity - API RW 180 @ 45.5 °F Chlorides 66,000 ppm

(A) Initial Hydrostatic 1663  Test X 1150 T-On Location 8:00/23:15  
 (B) First Initial Flow 27  Jars X 250 T-Started 23:50  
 (C) First Final Flow 71  Safety Joint X 75 T-Open 1:55  
 (D) Initial Shut-In 984  Circ Sub ANA T-Pulled 4:43  
 (E) Second Initial Flow 75  Hourly Standby \_\_\_\_\_ T-Out 6:30 '19  
 (F) Second Final Flow 120  Mileage 50 RT X2 <sup>Rig had to short trip again</sup> <sub>I went back home</sub> Comments See called just after I got here to say it would be 8:30 OB instead of 6:00  
 (G) Final Shut-In 1016  Sampler \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 (H) Final Hydrostatic 1650  Straddle \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 60  Day Standby \_\_\_\_\_ Total 1630  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1630

Approved By \_\_\_\_\_ Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55014

Well Name & No. Rule #1-31 Test No. 2 Date 11-9-13  
 Company Blue Ridge Petroleum Corp. Elevation 2421 KB 2416 GL  
 Address PO Box 1913 Enid OK 73702-1913  
 Co. Rep / Geo. Clint Musgrove Rig L.D. #1  
 Location: Sec. 31 Twp. 2s Rge. 24w Co. Norton State KS

Interval Tested 3435 - 3484 Zone Tested Lans. "D-F"  
 Anchor Length 49 Drill Pipe Run 3426 Mud Wt. 9.2  
 Top Packer Depth 3430 Drill Collars Run - Vis 50  
 Bottom Packer Depth 3435 Wt. Pipe Run - WL 6.4  
 Total Depth 3484 Chlorides 2400 ppm System LCM 2

Blow Description IF: 1/8" Blow at open, built slightly then died back, dead at 18min  
ISI: No blowback  
FF: No blow  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>				<u>100%</u>
	<u>Oil spots in tail</u>				

Rec Total 2 BHT \_\_\_\_\_ Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1692  Test \* 1150 T-On Location 16:20  
 (B) First Initial Flow 20  Jars \* 250 T-Started 17:06  
 (C) First Final Flow 21  Safety Joint \* 75 T-Open 19:03  
 (D) Initial Shut-In 47  Circ Sub ANA T-Pulled 21:03  
 (E) Second Initial Flow 21  Hourly Standby \_\_\_\_\_ T-Out 22:30  
 (F) Second Final Flow 22  Mileage 50 RT 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 34  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1681  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1552.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1552.50

Approved By \_\_\_\_\_ Our Representative James Windu

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55015**

Well Name & No. Rule #1-31 Test No. 3 Date 11-10-13  
 Company Blue Ridge Petroleum Corp Elevation 2421 KB 2416 GL  
 Address PO Box 1913 Enid, OK 73702-1913  
 Co. Rep / Geo. Jim Musgrove Rig L.D. #1  
 Location: Sec. 31 Twp. 2S Rge. 24W Co. Norton State KS

Interval Tested 3490-3590 Zone Tested Lans. "H-L"  
 Anchor Length 100 Drill Pipe Run 3489 Mud Wt. 9.4  
 Top Packer Depth 3485 Drill Collars Run - Vis 51  
 Bottom Packer Depth 3495 Wt. Pipe Run - WL 6.4  
 Total Depth 3590 Chlorides 2400 ppm System LCM 2  
 Blow Description IF: 1/4" blow at open, built to just over 1'  
ISI: No blowback  
FF: No blow  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>6</u>	<u>Mud w/trace of oil</u>	<u>-</u>	<u>trace</u>	<u>-</u>	<u>100</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 6 BHT 95 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1742</u>	<input type="checkbox"/> Test <u>*</u> 1150	T-On Location <u>13:00</u>
(B) First Initial Flow <u>21</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>14:10</u>
(C) First Final Flow <u>23</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>16:13</u>
(D) Initial Shut-In <u>200</u>	<input type="checkbox"/> Circ Sub <u>*NA</u>	T-Pulled <u>18:15</u>
(E) Second Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>19:45</u>
(F) Second Final Flow <u>25</u>	<input type="checkbox"/> Mileage <u>50 RT</u> 77.50	Comments _____
(G) Final Shut-In <u>95</u>	<input checked="" type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1742</u>	<input checked="" type="checkbox"/> Straddle	<input checked="" type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer <u>*</u> 320
Initial Shut-In <u>30</u>	<input checked="" type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Day Standby	Total <u>1872.50</u>
	<input checked="" type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1552.50</u>	

Approved By \_\_\_\_\_ Our Representative James Winder  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **55016**

Well Name & No. Rule #1-31 Test No. 4 Date 11-11-13  
 Company Blue Ridge Petroleum Corp. Elevation 2421 KB 2416 GL  
 Address PO Box 1913 Enid, OK 73702-1913  
 Co. Rep / Geo. Jim Musgrave Rig LD  
 Location: Sec. 31 Twp. 2S Rge. 24W Co. Norton State KS

Interval Tested 3584-3684 Zone Tested Granite Wash  
 Anchor Length 100' 13' Tail Drill Pipe Run 3585 Mud Wt. 9.5  
 Top Packer Depth 3579-3584 Drill Collars Run - Vis 56  
 Bottom Packer Depth 3684 (shale) Wt. Pipe Run - WL 6.4  
 Total Depth 3697 Chlorides 1500 ppm System LCM 1 1/2  
 Blow Description IF: Blow built to BOB in 8 1/2 min. (11")  
ISI: No blowback  
FF: Blow built to BOB in 7 min.  
FSI: Blowback built to 7 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>95</u>	<u>GMCO</u>	<u>8</u>	<u>56</u>	<u>-</u>	<u>36</u>
<u>255</u>	<u>GOCM</u>	<u>17</u>	<u>33</u>	<u>-</u>	<u>50</u>
	<u>GIP = 285'</u>				

Rec Total 350 Fluid 285 gas BHT 99 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1821  Test \* 9.50 T-On Location 11:25  
 (B) First Initial Flow 27  Jars \* 250 T-Started 12:02  
 (C) First Final Flow 99  Safety Joint \* 75 T-Open 14:05  
 (D) Initial Shut-In 735  Circ Sub \* NA T-Pulled 15:56  
 (E) Second Initial Flow 105  Hourly Standby \_\_\_\_\_ T-Out 18:15  
 (F) Second Final Flow 174  Mileage 50 RT 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 754  Sampler 600 \_\_\_\_\_  
 (H) Final Hydrostatic 1815  Straddle \* \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \* 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 2202.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2202.50

Approved By \_\_\_\_\_ Our Representative James Winder

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Office (620) 588-4250 212 Main St. • P.O. Box 215 • Claflin, KS 67525 Home (620) 587-3444

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Blue Ridge Petroleum Corp.

LEASE Rule #1-31

FIELD Wildcat

LOCATION SE-NE-NW-SE (B1240' FSL)  
(B1383' FEL)

SEC 31 TWP 2 RGE 24

COUNTY Norton STATE Kansas

CONTRACTOR L.D. Drilling Co. (Rig #1)

SPUD 11/4/13 COMP 11/13/13

RTD 3747 LTD 3747

MUD UP 3000 TYPE MUD Chemical

ELEVATIONS

KB 2421

DF \_\_\_\_\_

GL 2416

Measurements Are All From KB-

CASING SURFACE 8 5/8 @ 263

PRODUCTION 5/2" @ 3746'

ELECTRICAL SURVEYS

By Nabors, DL, GDL, CUL, PE, HBL, c, 50mc

SAMPLES SAVED FROM \_\_\_\_\_ TO 3100

DRILLING TIME KEPT FROM \_\_\_\_\_ TO 3200

SAMPLES EXAMINED FROM \_\_\_\_\_ TO 3200

GEOLOGICAL SUPERVISION FROM \_\_\_\_\_ TO 3400

GEOLOGIST ON WELL Tim Musgrove & Clint Musgrove

FORMATION TOPS

LOG

SAMPLES

Anhydrite 1962 +159

Base Anhydrite 1991 +130

Hebner 3356 -935

Wansing 3386 -979

Base Kansas City 3589 -1168

Granite Wash 3885 -1264

R.T.D 3747 -1326

REMARKS

5 1/2" production casing set & cemented on the Rule #1-31.

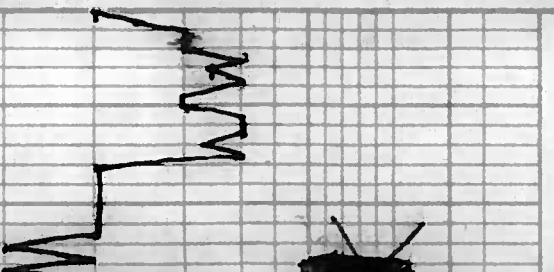
Respectfully Submitted  
James C. Musgrove  
Petroleum Geologist.

LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool. Lime	Chert	Dolomite

DRILLING TIME  
Logarithmic Scale)

5 1 2 3 4 5 10 15 20 30



SAMPLE DESCRIPTIONS

L.S. tan, gray, FSL, few Foss  
DAS,

Sh. Greenish, Brick Red, Soft

REMARKS

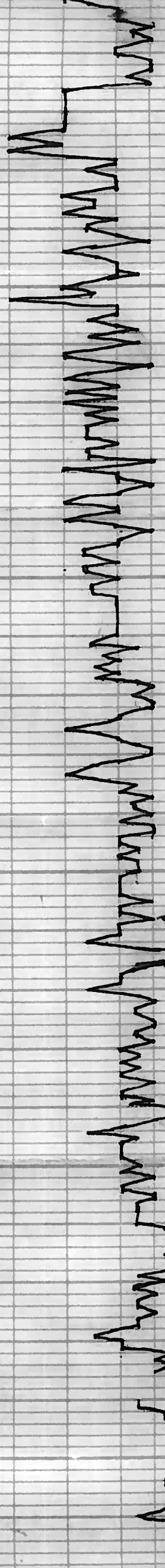
DEPTH

DEPTH

20



20  
40  
60  
80  
3300  
20  
40  
60  
80  
3400  
A  
20 B  
C  
40  
D  
60 E



Heebner  
3358  
(-937)

Jaranto  
3392  
(-971)

Lansing  
3402  
(-981)

-1034  
→ geograph Not  
= kicked in

L.S. tan, gray, Fxl, Few Foss  
Dns,

Sh. Greenish, Brick Red, Soft

L.S. Crm-Whit Fxl, Dns, Poor  
Vis  $\phi$ . N/S.

L.S. A/A. Sh. gray-lt. brn.

L.S. Crm-Whit, Fxl, Foss, Poor  
Scatt  $\phi$  Sh. Chiky, N/S.

Blk Carb. Sh.

L.S. A/A.

-2421 KB-

L.S. brn, matt, Chiky Lt.  
brn str, N/SFO, N/O.

L.S. Whit, Chiky, Few Foss  
Poor Vis  $\phi$ , N/S.

Sh. Blk carb, brick red, &  
Aque green, Trc. L.S. tan  
Ool, N/S.

L.S. Whit/crm, Fxl, Foss,  
Dns poor Vis  $\phi$ .

Blk carb sh,

Sh. brick red/greenish.

L.S. Crm, to Whit, Foss in pres  
Sh. Chiky, Dns, poor Vis  $\phi$ , N/S.

L.S. Crm-Whit, Fxl, V. Chiky, Poor  
Scatt  $\phi$ , SFO, Lt. golden brn str,  
odor???

DSC #1  
3391-3435  
30-30-45 '60

L.S. Crm-Whit, F-Mix, Pr-Fr. Scatt  
 $\phi$ , SFO, Lt. brn str, no odor

Blow good  
(Bob 26")

L.S. Crm, Whit, Fxl,  $\phi$ , Dns, N/S.  
Trc. Mar. Sh.

2nd opening, good  
(Bob 43 min)

L.S. Whit, Fxl, Foss, Dns, Lt.  
SFO, Lt. brn str. No odor

Rec, 126' muddy water  
(No oil)

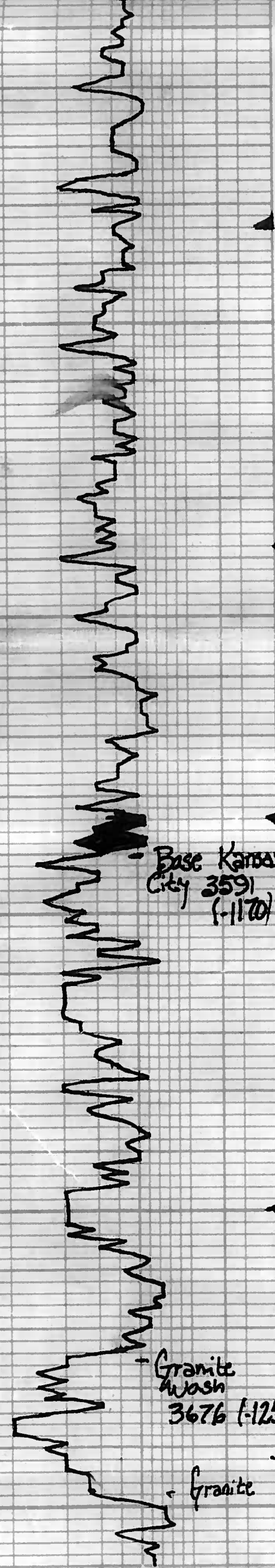
L.S. Crm, Fxl, good Scatt  $\phi$ , SFO.  
Dns, Lt. golden brn str, No odor  
Abd. Red Sh.

pressures  
161p 984 Pst  
55p 1016  
31p 27-71  
55p 75-120

L.S. wh/crm, ool, faint  $\phi$ ,  
Tr brn str, no odor, SFO

L.S. wh/crm, Fxl, red sh N/S

②  
60  
70  
80  
3580  
20  
40  
60  
80  
3600  
20  
40  
60  
80  
3700



Abd. Red sh.  
LS, wh/crm, ool, faint sp;  
Tr brk stal, no ool, sfo  
LS, wh/crm, fxl, real sh n/s  
Red sh  
LS, gr/crm, fxl, faint br stal n/s  
LS, wh, fxl, ool in part, no ool  
LS, wh/crm, fxl, cherty  
Tr poor brk  
LS, wh/crm, fxl; fassy  
cherty; scatter ppt  
brown sh/sst; sfo; ft. odor  
ool in part  
LS, ool; sptky ool  
slug mar sh.  
red mar sh  
LS, wh/gry, fxl;  
foss in part, cherty  
poor  
LS, wh/fxl/med sh, cherty  
glauc mls  
slug mar/soft sh  
LS, wh/gry; cherty, few sandy  
mls  
Dr. up med green  
ool. sand mls  
LS, wh; med tinted  
mar - brown red blocky  
sh.  
Dr. mar tinted LS  
Qtz; sub rounded, rounded  
slab; + PK/clear feldspn, mica  
Poor sh; Tr Co, no dr  
+ Tr. v. fgl, glauc. sd, scatter  
aa; blue tarry sh; ??  
PK/orange feldspn/Tr  
clear Qtz; v. mica material

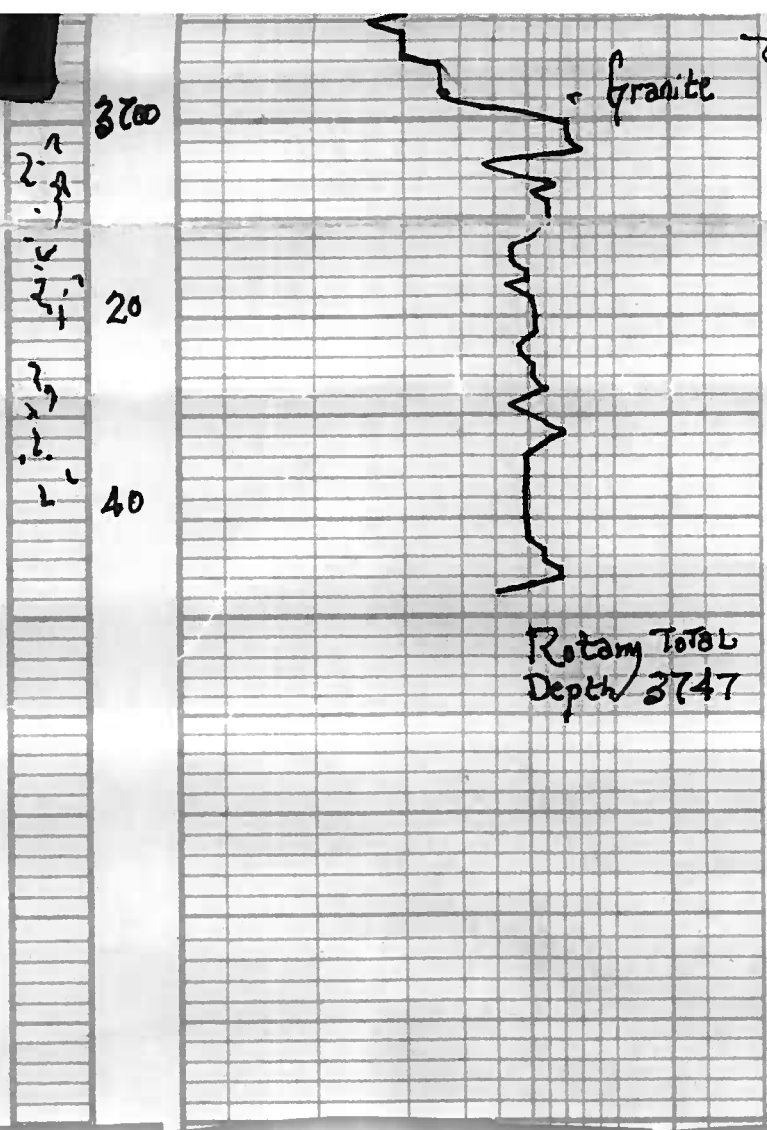
pressures  
Isip 984 Psi  
fsip 1016  
IAP 27-71  
sfp 75-120  
MSH 1692  
-1681

Dst #2  
3435-3484  
30-30-30-30  
Blow; weak (died)  
18 mins  
2nd  
opening; no blow  
Rec; 2' mud  
pressures, Isip 47  
fsip 34  
IAP 20-21  
sfp 21-22  
MSH 1692-1681

Dst #3  
3490-3590  
30-30-30-30  
Blow; weak (1")  
2nd  
opening; no blow  
Rec; 6' mud with  
trace of oil  
pressures, Isip 200  
fsip 95  
IAP 21-23  
sfp 24-25  
MSH 1742  
-1742

Dst #4  
3584-3697  
15-20-30-45  
Blow; strong  
(Bob 8 1/2 min)  
2nd  
opening; strong  
(Bob 7 min)  
Rec; 285' gas in pip  
95' Gassy mud  
oil  
(50% mud;  
3390 oil;  
1790 gas)  
255' Gassy Heavy  
oil cut mud  
(50% mud; 3390  
1790 gas)





+ 30. v. slt, glauc. sd, scatt.  
 aa; blk. sandy sh, ??  
 pk/orange feldspar /  
 clear qtz, mica material  
 } 2  
 abt + red sh.  
 feldspar / qtz a.c.  
 } 2  
 aa

1790 gms  
 255' Gassy Heavy  
 oil cut mud  
 (50% mud; 33% oolite  
 1790 gms)  
 PRESSURES) ISI P 735  
 fsi P 754  
 2 HP 27-99  
 f 4 P 105-124  
 HSH  
 1821-1815 p