



## DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum**

PO. Box 1913  
Enid OK 7302

ATTN: Wyatt Urban

### **Tammany #3-29**

#### **29 19s 25w Ness KS**

Start Date: 2013.12.09 @ 06:19:00

End Date: 2013.12.09 @ 13:31:30

Job Ticket #: 55931                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.13 @ 13:23:12



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Blue Ridge Petroleum

**29 19s 25w Ness KS**

PO. Box 1913  
Enid OK 7302

**Tammany #3-29**

Job Ticket: 55931

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2013.12.09 @ 06:19:00

## GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:16:00

Time Test Ended: 13:31:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 4406.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Reference Elevations: 2534.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

2525.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8673 Inside**

Press@RunDepth: 46.34 psig @ 4407.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.09 End Date: 2013.12.09

Last Calib.: 2013.12.09

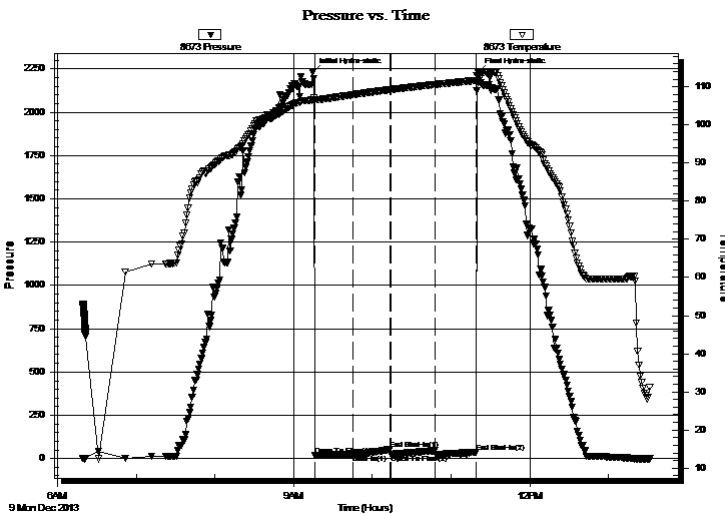
Start Time: 06:19:01 End Time: 13:31:30

Time On Btm: 2013.12.09 @ 09:14:30

Time Off Btm: 2013.12.09 @ 11:21:00

**TEST COMMENT:** IF: Weak surface blow, Died in 13 mins.  
IS: No blow back over 30 mins.  
FF: No blow over 30 mins.  
FS: No blow back over 30 mins.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.01	106.59	Initial Hydro-static
2	20.21	106.36	Open To Flow (1)
31	21.61	107.91	Shut-In(1)
59	52.55	109.25	End Shut-In(1)
60	22.63	109.25	Open To Flow (2)
93	46.34	110.59	Shut-In(2)
125	37.05	111.66	End Shut-In(2)
127	2229.97	112.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil specs	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blue Ridge Petroleum

**29 19s 25w Ness KS**

PO. Box 1913  
Enid OK 7302

**Tammany #3-29**

Job Ticket: 55931

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2013.12.09 @ 06:19:00

## Tool Information

Drill Pipe:	Length: 4393.00 ft	Diameter: 3.80 inches	Volume: 61.62 bbl	Tool Weight: 2600.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 61.62 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4406.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	102.00 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			4383.00	
Hydraulic tool	5.00			4388.00	
Jars	5.00			4393.00	
Safety Joint	3.00			4396.00	
Packer	5.00			4401.00	28.00 Bottom Of Top Packer
Packer	5.00			4406.00	
Stubb	1.00			4407.00	
Recorder	0.00	8673	Inside	4407.00	
Recorder	0.00	8651	Outside	4407.00	
Perforations	4.00			4411.00	
change Over Sub	1.00			4412.00	
Drill Pipe	64.00			4476.00	
Change Over Sub	1.00			4477.00	
Bullnose	3.00			4480.00	74.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Blue Ridge Petroleum

**29 19s 25w Ness KS**

PO. Box 1913  
Enid OK 7302

**Tammany #3-29**

Job Ticket: 55931

**DST#: 1**

ATTN: Wyatt Urban

Test Start: 2013.12.09 @ 06:19:00

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil specs	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

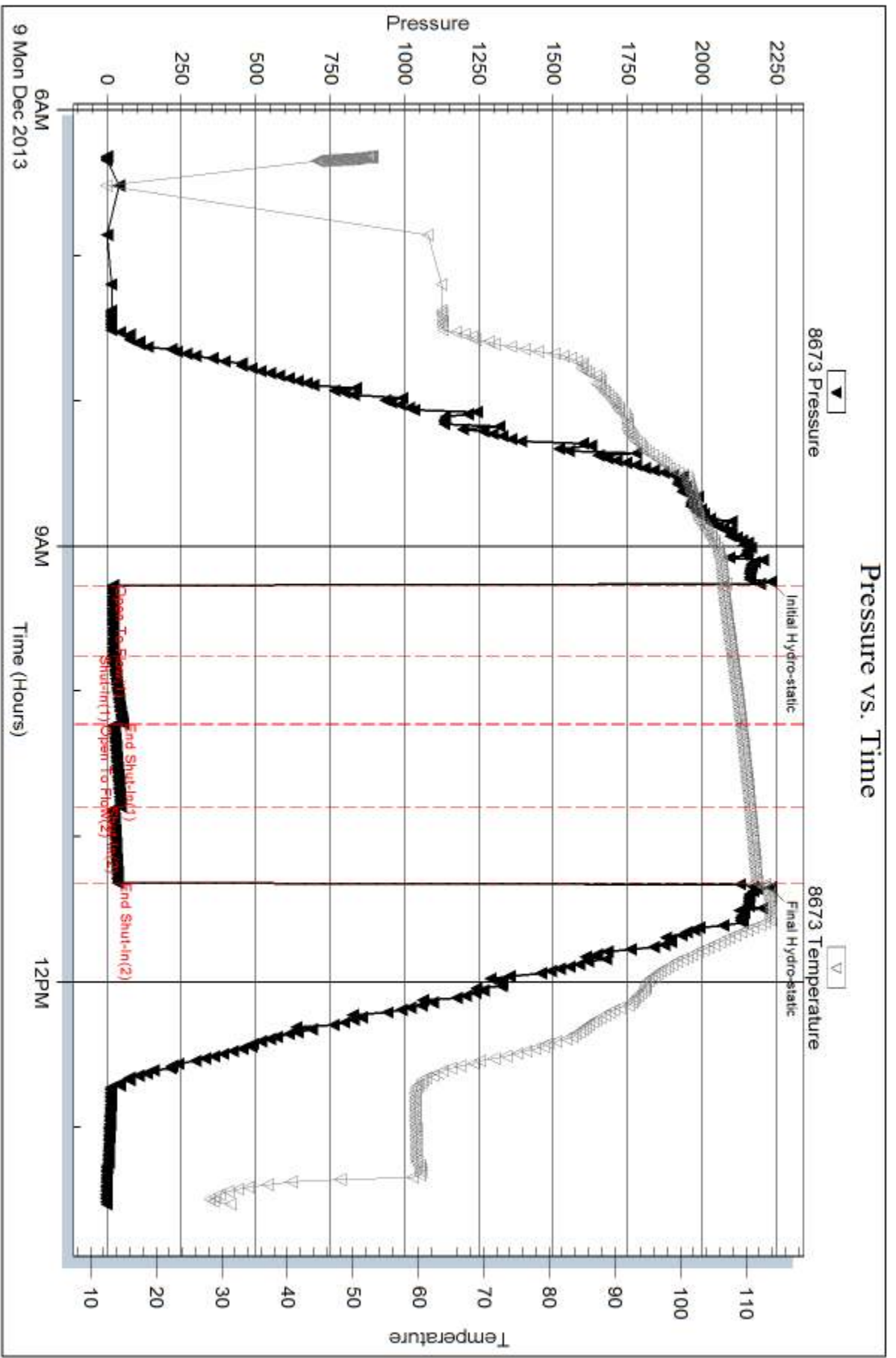
Serial #: 8673

Inside

Blue Ridge Petroleum

Tammany #3-29

DST Test Number: 1

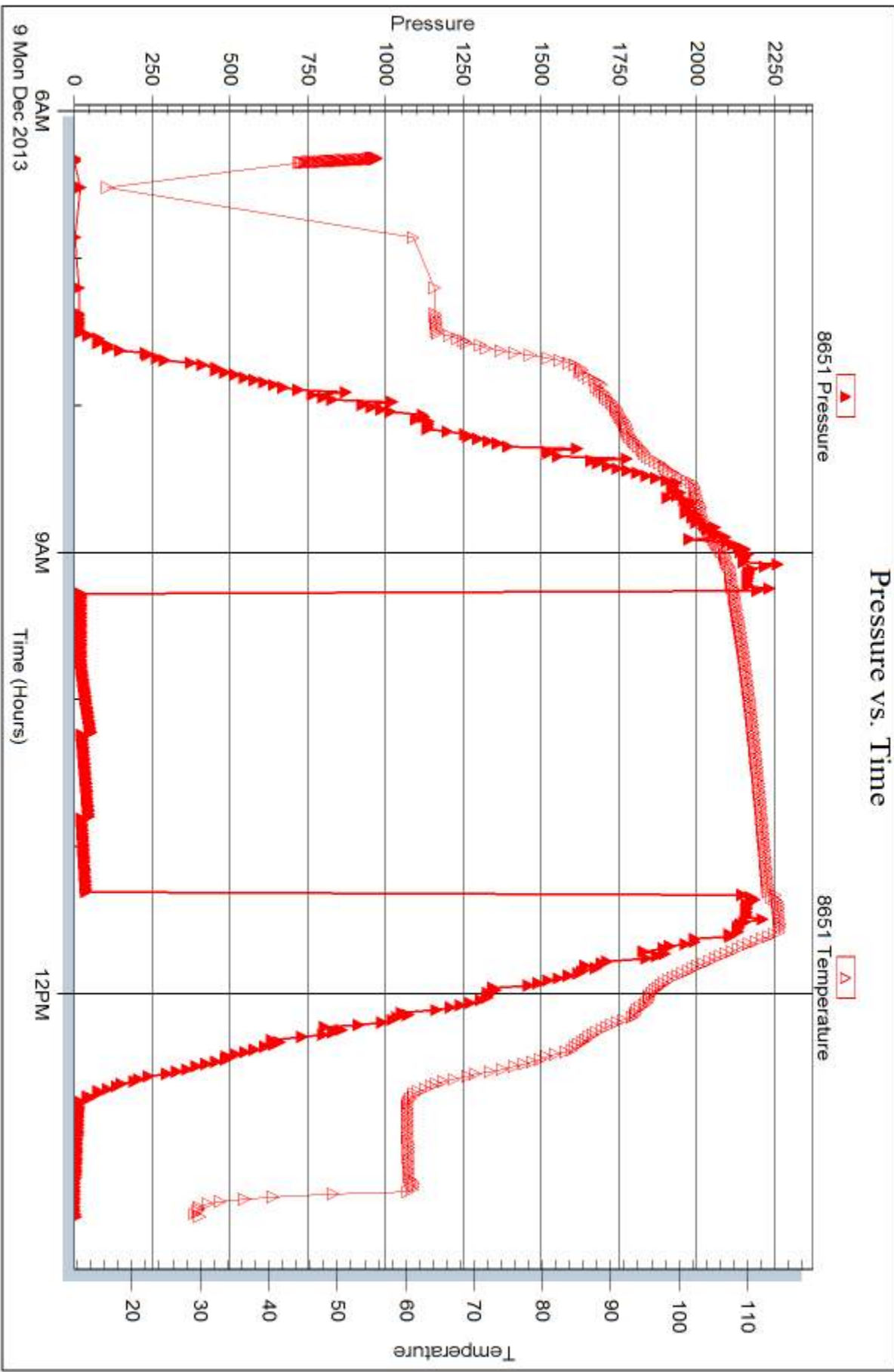


Serial #: 8651

Outside Blue Ridge Petroleum

Tammany #3-29

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55931

Printed: 2013.12.13 @ 13:23:15



## DRILL STEM TEST REPORT

Prepared For: **Blue Ridge Petroleum**

PO. Box 1913  
Enid OK 7302

ATTN: Wyatt Urban

### **Tammany #3-29**

#### **29 19s 25w Ness KS**

Start Date: 2013.12.10 @ 00:45:00

End Date: 2013.12.10 @ 08:35:30

Job Ticket #: 55932                      DST #: 2

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

Printed: 2013.12.13 @ 13:22:33





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Blue Ridge Petroleum

**29 19s 25w Ness KS**

PO. Box 1913  
Enid OK 7302

**Tammany #3-29**

Job Ticket: 55932

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2013.12.10 @ 00:45:00

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:56:30

Time Test Ended: 08:35:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 4478.00 ft (KB) To 4544.00 ft (KB) (TVD)**

Reference Elevations: 2534.00 ft (KB)

Total Depth: 4544.00 ft (KB) (TVD)

2525.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 8673**

**Inside**

Press@RunDepth: 1116.48 psig @ 4479.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.10

End Date: 2013.12.10

Last Calib.: 2013.12.10

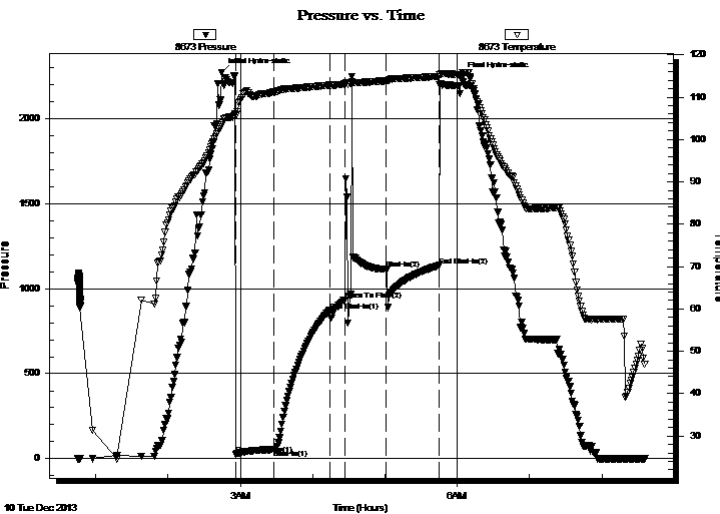
Start Time: 00:45:01

End Time: 08:35:30

Time On Btm: 2013.12.10 @ 02:44:30

Time Off Btm: 2013.12.10 @ 06:03:00

**TEST COMMENT:** IF: Fair blow , Built to B.O.B in 20 mins.  
IS: No blow back  
FF: No blow over 15 mins. Flushed tool w eak blow for 3 sec.  
FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.98	103.37	Initial Hydro-static
12	26.35	105.76	Open To Flow (1)
44	54.26	111.21	Shut-In(1)
90	868.55	112.85	End Shut-In(1)
102	934.24	113.08	Open To Flow (2)
137	1116.48	113.88	Shut-In(2)
181	1135.95	114.93	End Shut-In(2)
199	2247.61	115.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	socm-20%o80%m	0.84
30.00	Hocm-30%m70%o	0.42

\* 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

**29 19s 25w Ness KS**

PO. Box 1913  
Enid OK 7302

**Tammany #3-29**

Job Ticket: 55932

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2013.12.10 @ 00:45:00

## Tool Information

Drill Pipe:	Length: 4456.00 ft	Diameter: 3.80 inches	Volume: 62.51 bbl	Tool Weight: 2600.00 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: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 62.51 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4478.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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			4455.00	
Hydraulic tool	5.00			4460.00	
Jars	5.00			4465.00	
Safety Joint	3.00			4468.00	
Packer	5.00			4473.00	28.00 Bottom Of Top Packer
Packer	5.00			4478.00	
Stubb	1.00			4479.00	
Recorder	0.00	8673	Inside	4479.00	
Recorder	0.00	8651	Outside	4479.00	
Perforations	29.00			4508.00	
change Over Sub	1.00			4509.00	
Drill Pipe	31.00			4540.00	
Change Over Sub	1.00			4541.00	
Bullnose	3.00			4544.00	66.00 Bottom Packers & Anchor

**Total Tool Length: 94.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Blue Ridge Petroleum

**29 19s 25w Ness KS**

PO. Box 1913  
Enid OK 7302

**Tammany #3-29**

Job Ticket: 55932

**DST#: 2**

ATTN: Wyatt Urban

Test Start: 2013.12.10 @ 00:45:00

## 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	socm-20%o80%m	0.842
30.00	Hocm-30%m70%o	0.421

Total Length: 90.00 ft      Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

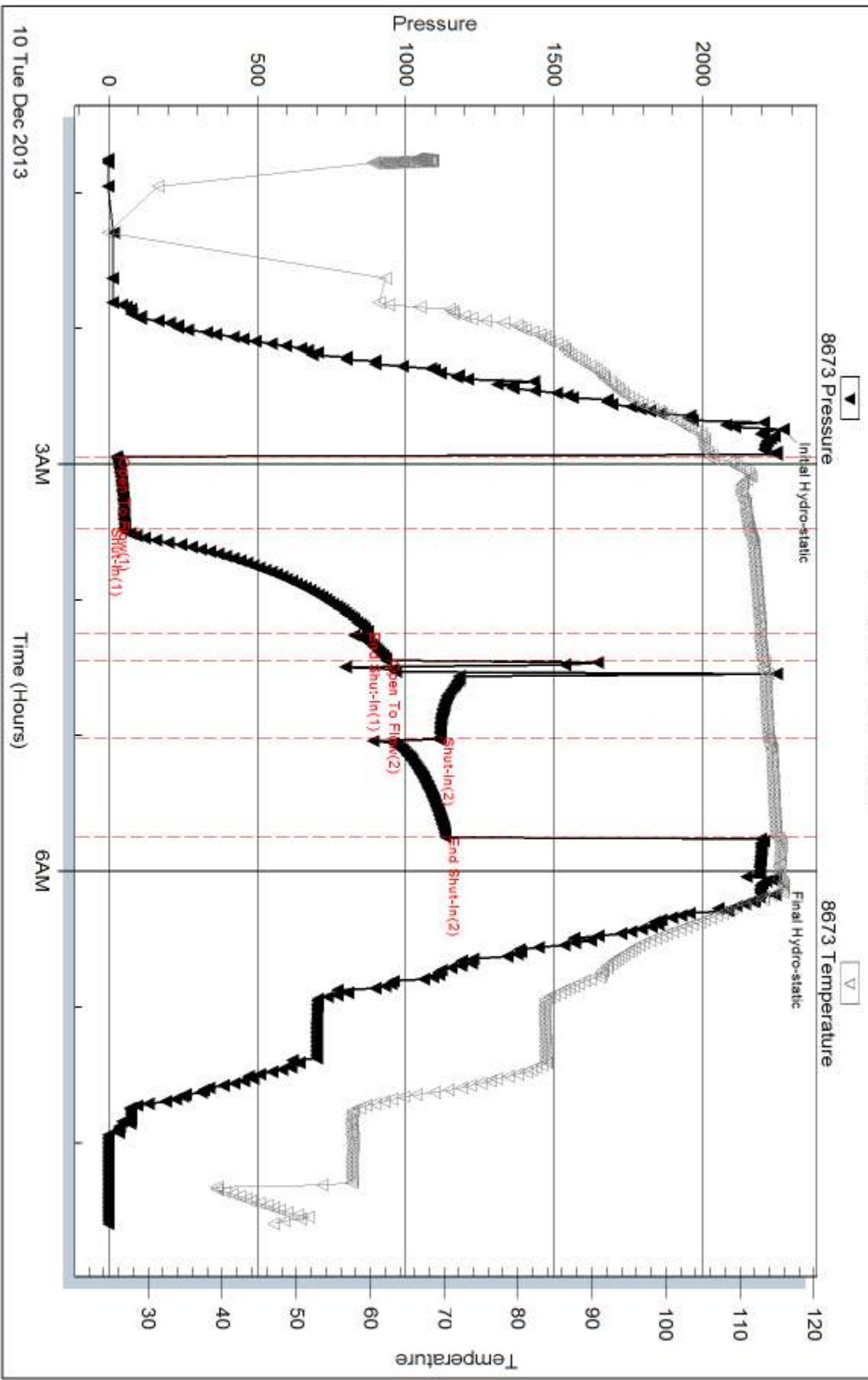
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

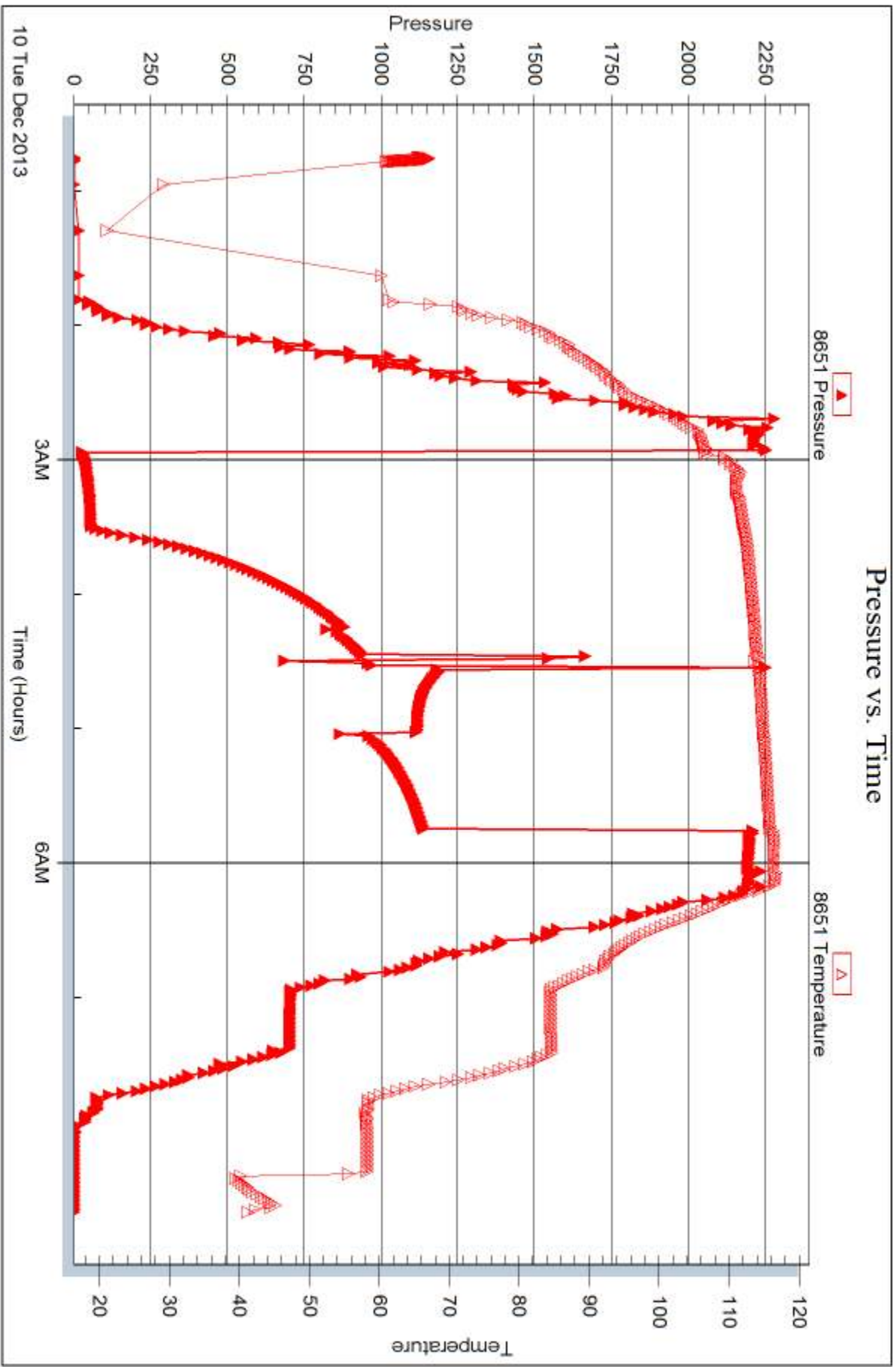


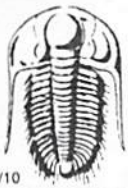
Serial #: 8651

Outside Blue Ridge Petroleum

Tammany #3-29

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55931

Well Name & No. Tamm~~er~~ 3-29 Test No. 1 Date 12-09-13  
 Company Blue Ridge Petro Elevation 2534 KB 2524 GL  
 Address P.O. Box 1913 Enid OK 7302  
 Co. Rep / Geo. WYatt Rig Southwind #8  
 Location: Sec. 29 Twp. 19S Rge. 25W Co. NECS State Ks

Interval Tested 4406 4480 Zone Tested Fort. Scott  
 Anchor Length 74 Drill Pipe Run 4493 Mud Wt. 9.25  
 Top Packer Depth 4401 Drill Collars Run -0- Vis 51  
 Bottom Packer Depth 4406 Wt. Pipe Run -0- WL 2.6  
 Total Depth 4480 Chlorides 3,400 ppm System LCM 1#

Blow Description IF: Weak surface blow, Dead in 13mins.

ISF: No blow back over 30mins.

FF: No blow over

FSI: No blow back over 30mins.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud Dilspes</u>				

Rec Total 5 BHT 110 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2230  Test 1250 T-On Location 4:40  
 (B) First Initial Flow 20  Jars 250 T-Started 6:18  
 (C) First Final Flow 22  Safety Joint 75 T-Open 9:16  
 (D) Initial Shut-In 53  Circ Sub \_\_\_\_\_ T-Pulled 11:15  
 (E) Second Initial Flow 23  Hourly Standby \_\_\_\_\_ T-Out 13:31  
 (F) Second Final Flow 46  Mileage 137.5x2 = 275.00x1.55 Comments started in Ness city  
 (G) Final Shut-In 37  Sampler 114rt 176.70  
 (H) Final Hydrostatic 2230  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

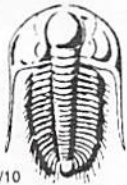
Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Sub Total 1751.70

Approved By \_\_\_\_\_ Our Representative Chuck Ryan

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. **55932**

Well Name & No. Tammy 3-29 Test No. 2 Date 2-10-13  
 Company Blue Ridge Petro Elevation 2534 KB 2524 GL  
 Address P.O. Box 1913 Enid O.K. 7302  
 Co. Rep / Geo. Wyatt Urban Rig Southwind #8  
 Location: Sec. 29 Twp. 19S Rge. 25W Co. Ness State Ks

Interval Tested 4428 4544 Zone Tested Miss  
 Anchor Length 66 Drill Pipe Run 4456 Mud Wt. 9.4  
 Top Packer Depth 4473 Drill Collars Run 0 Vis 48  
 Bottom Packer Depth 4478 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4544 Chlorides 4706 ppm System LCM 1#

Blow Description IF: Fair Blow 8.0.B in 20 mins  
ISF: No blow back over 45 mins.  
FF: No blow over 15 mins Flushed tool. Weak blow Dead in 30 secs.  
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
30	40cm		70		30
60	850cm		20		80

Rec Total 90 BHT 114 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2272</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12-9-13</u> <u>22:50</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12-10-13</u> <u>00:45</u>
(C) First Final Flow <u>54</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open _____ <u>2:58</u>
(D) Initial Shut-In <u>869</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled _____ <u>6:00</u>
(E) Second Initial Flow <u>934</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____ <u>8:35</u>
(F) Second Final Flow <u>1116</u>	<input checked="" type="checkbox"/> Mileage <u>137.5 x 2 = 275 x 1.55</u> <u>353.40</u>	Comments <u>Local tools on 12-10</u>
(G) Final Shut-In <u>1136</u>	<input type="checkbox"/> Sampler _____	<u>at 2:30pm</u>
(H) Final Hydrostatic <u>2248</u>	<input type="checkbox"/> Straddle _____	<u>Stayed in Ness at 7</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1928.40</u>
	Sub Total <u>1928.40</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative Chuck [Signature]

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