

# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58994

Well Name & No. Roetzel A 27 Test No. 1 Date 06/10/14  
 Company Berens Energy Corporation Elevation 1759 KB 1749 GL  
 Address PO BOX 5850 Denver, CO 80217  
 Co. Rep / Geo. Ed Buchanan Rig Val 6  
 Location: Sec. 24 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested 3032 - 3079 Zone Tested Lansing Kansas City "D, E, F"  
 Anchor Length 47 Drill Pipe Run 3023 Mud Wt. 9.0  
 Top Packer Depth 3027 Drill Collars Run 0 Vis 44  
 Bottom Packer Depth 3032 Wt. Pipe Run 0 WL 8.4  
 Total Depth 3079 Chlorides 1600 ppm System LCM

Blow Description IF: strong Blow, BOB in 2 minutes  
ISI: NO Blow Back

FF: strong Blow, BOB immediate

FST: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2170</u>	<u>GIP</u>				
<u>110</u>	<u>GOCM</u>	<u>15</u>	<u>15</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 110 BHT 102 Gravity 39.6 API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic	<u>1495</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>04:30</u>
(B) First Initial Flow	<u>31</u>	<input checked="" type="checkbox"/> Jars	<u>236</u>	T-Started	<u>05:07</u>
(C) First Final Flow	<u>40</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>07:50</u>
(D) Initial Shut-In	<u>758</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>12:06</u>
(E) Second Initial Flow	<u>42</u>	<input checked="" type="checkbox"/> Hourly Standby	<u>1 100</u>	T-Out	<u>14:44</u>
(F) Second Final Flow	<u>63</u>	<input checked="" type="checkbox"/> Mileage	<u>120 186</u>	Comments	
(G) Final Shut-In	<u>729</u>	<input checked="" type="checkbox"/> Sampler	<u>250</u>		
(H) Final Hydrostatic	<u>1478</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>15</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>60</u>	<input type="checkbox"/> Extra Recorder		Sub Total	
Final Shut-In	<u>120</u>	<input type="checkbox"/> Day Standby		Total	
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>2011</u>		

Approved By A. Edward Buchanan 6/10/2014 Our Representative [Signature]



# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 58994 Date 06/10/14

Company Name Berco Energy Corporation

Lease Roetzal A27 Test No. 1

County Barton Sec. 24 Twp. 20S Rng. 11W

### SAMPLER RECOVERY

Gas 29.04 cuft ~~ML~~ ML

Oil 4000 ML

Mud \_\_\_\_\_ ML

Water \_\_\_\_\_ ML

Other \_\_\_\_\_ ML

Pressure 600 PSI ML

Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 1600 ppm.

Resistivity N/C ohms @ N/C F

Viscosity 44

Mud Weight 9.0

Filtrate 8.4

Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F

Chlorides \_\_\_\_\_ ppm.

Gravity 39.6 corrected @60F

### PIPE RECOVERY

#### TOP

Resistivity N/C ohms @ \_\_\_\_\_ F

Chlorides N/C ppm.

#### MIDDLE

Resistivity N/C ohms @ \_\_\_\_\_ F

Chlorides N/C ppm.

#### BOTTOM

Resistivity N/C ohms @ \_\_\_\_\_ F

Chlorides N/C ppm.



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Beren Energy Corporation

**24-20S-11W Barton**

PO Box 5850  
Denver, CO 80217

**Roetzel A 27**

Job Ticket: 58994

**DST#: 1**

ATTN: Ed Buchanan

Test Start: 2014.06.10 @ 05:07:47

## GENERAL INFORMATION:

Formation: **Lansing Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:50:17

Time Test Ended: 14:44:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: **3032.00 ft (KB) To 3079.00 ft (KB) (TVD)**

Reference Elevations: 1759.00 ft (KB)

Total Depth: 3079.00 ft (KB) (TVD)

1749.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8367**

**Outside**

Press@RunDepth: 63.27 psig @ 3033.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.10

End Date:

2014.06.10

Last Calib.:

2014.06.10

Start Time: 05:07:47

End Time:

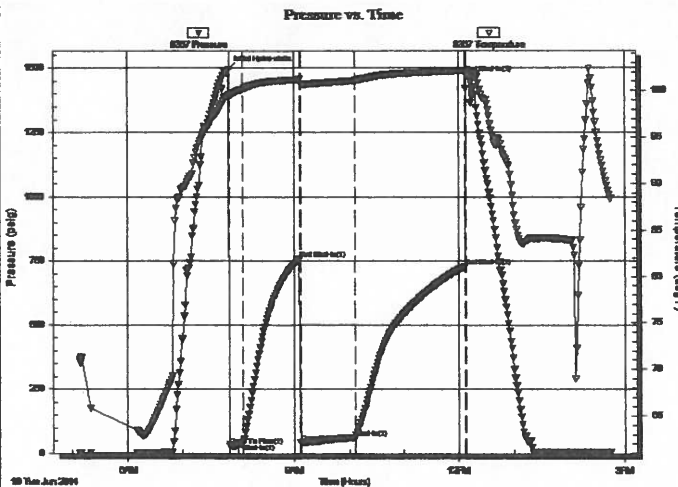
14:44:32

Time On Btm:

2014.06.10 @ 07:49:47

Time Off Btm:

**TEST COMMENT:** IF: Strong Blow, BOB in 2 minutes  
IS: No Blow Back  
FF: Strong Blow, BOB immediate  
FSI: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1495.55	99.45	Initial Hydro-static
1	30.98	99.27	Open To Flow (1)
16	39.87	100.15	Shut-in(1)
77	757.99	101.19	End Shut-in(1)
78	42.55	100.72	Open To Flow (2)
137	63.27	101.07	Shut-in(2)
257	728.58	102.16	End Shut-in(2)
259	1478.15	101.86	End Shut-in(3)

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	2170 GIP	0.00
110.00	GOCM 15%G 15%O 70%M	1.54

## Gas Rates

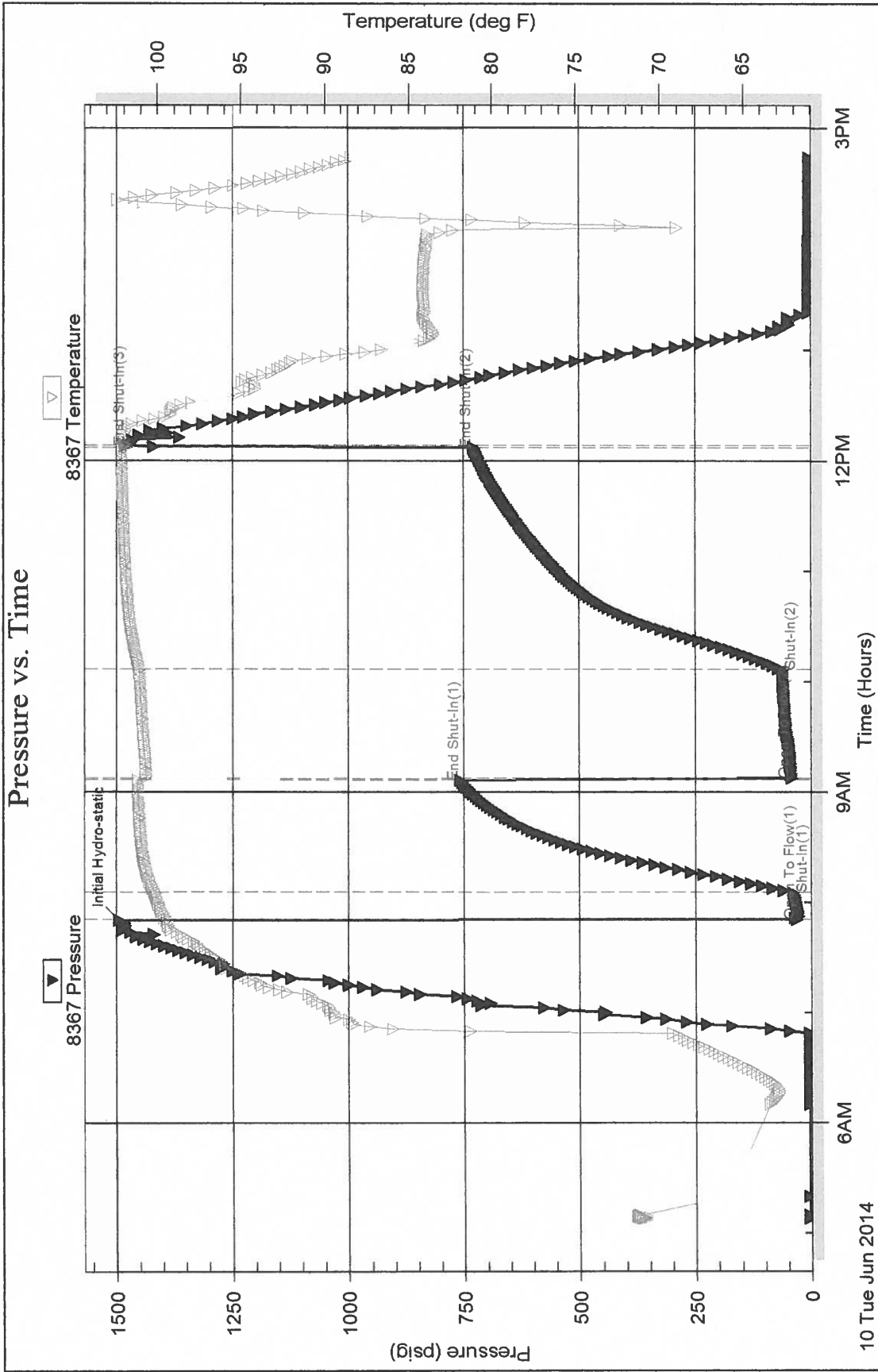
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8367

Outside Beren Energy Corporation

Roetzel A 27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58994

Printed: 2014.06.10 @ 14:58:37





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58995

4/10

Well Name & No. Roetzal A 27 Test No. 2 Date 06/11/14  
 Company Berenergy Corporation Elevation 1759 KB 1749 GL  
 Address PO Box 5850 Denver, CO 80217  
 Co. Rep / Geo. Ed Buchanan Rig Val 6  
 Location: Sec. 24 Twp. 20S Rge. 11W Co. Barton State KS

Interval Tested 3249.5 - 3256.5 Zone Tested Arbuckle  
 Anchor Length 7 Drill Pipe Run 3240 Mud Wt. 9.3  
 Top Packer Depth 3244.5 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 3249.5 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3256.5 Chlorides 3000 ppm System LCM

Blow Description IF: Strong Blow, BOB in 90 seconds  
ISI: NO Blow Back  
FF: Weak Blow, Built to 6 inches by 8 minutes, Dead @ 25 minutes  
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>6</u>	<u>50MCW</u>	<u>1</u>	<u>75</u>	<u>24</u>	
<u>800</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	

Rec Total 906 BHT 108 Gravity N/C API RW .46 @ 60 ° F Chlorides 17000 ppm

(A) Initial Hydrostatic <u>1631</u>	<input checked="" type="checkbox"/> Test <u>1156</u>	T-On Location <u>15:45</u>
(B) First Initial Flow <u>106</u>	<input checked="" type="checkbox"/> Jars <u>256</u>	T-Started <u>16:41</u>
(C) First Final Flow <u>301</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:17</u>
(D) Initial Shut-In <u>368</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:33</u>
(E) Second Initial Flow <u>304</u>	<input checked="" type="checkbox"/> Hourly Standby <u>8 800</u>	T-Out <u>08:26</u>
(F) Second Final Flow <u>368</u>	<input checked="" type="checkbox"/> Mileage <u>(120)</u> <u>186</u>	Comments <u>waited until</u>
(G) Final Shut-In <u>368</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	<u>Daylights to pull test</u>
(H) Final Hydrostatic <u>1588</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>66</u>	<input type="checkbox"/> Extra Recorder	Sub Total
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total
Final Shut-In <u>120</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2711</u>	

Approved By L. Edward Buchanan 6/12/2014 Our Representative [Signature]

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



# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 58995 Date 06/12/14  
 Company Name Bereenergy Corporation  
 Lease Roetzel A-27 Test No. 2  
 County Barton Sec. 24 Twp. 20S Rng. 11W

### SAMPLER RECOVERY

Gas .4 CU FT  
 Oil \_\_\_\_\_  
 Mud \_\_\_\_\_  
 Water 2000  
 Other \_\_\_\_\_  
 Pressure 25 psi  
 Total 2000

~~ML~~ Chlorides 3000 ppm.  
 ML Resistivity NIC ohms @ NIC F  
 ML Viscosity 52  
 ML Mud Weight 9.3  
 ML Filtrate 8.8  
 ML Other \_\_\_\_\_  
 ML \_\_\_\_\_

### PIT MUD ANALYSIS

### SAMPLER ANALYSIS

Resistivity .47 ohms @ 61 F  
 Chlorides 17000 ppm.  
 Gravity NIC corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity .46 ohms @ 60 F  
 Chlorides 17000 ppm.  
**MIDDLE**  
 Resistivity .46 ohms @ 60 F  
 Chlorides 17000 ppm.  
**BOTTOM**  
 Resistivity .46 ohms @ 60 F  
 Chlorides 17000 ppm.

Serial #: 6798

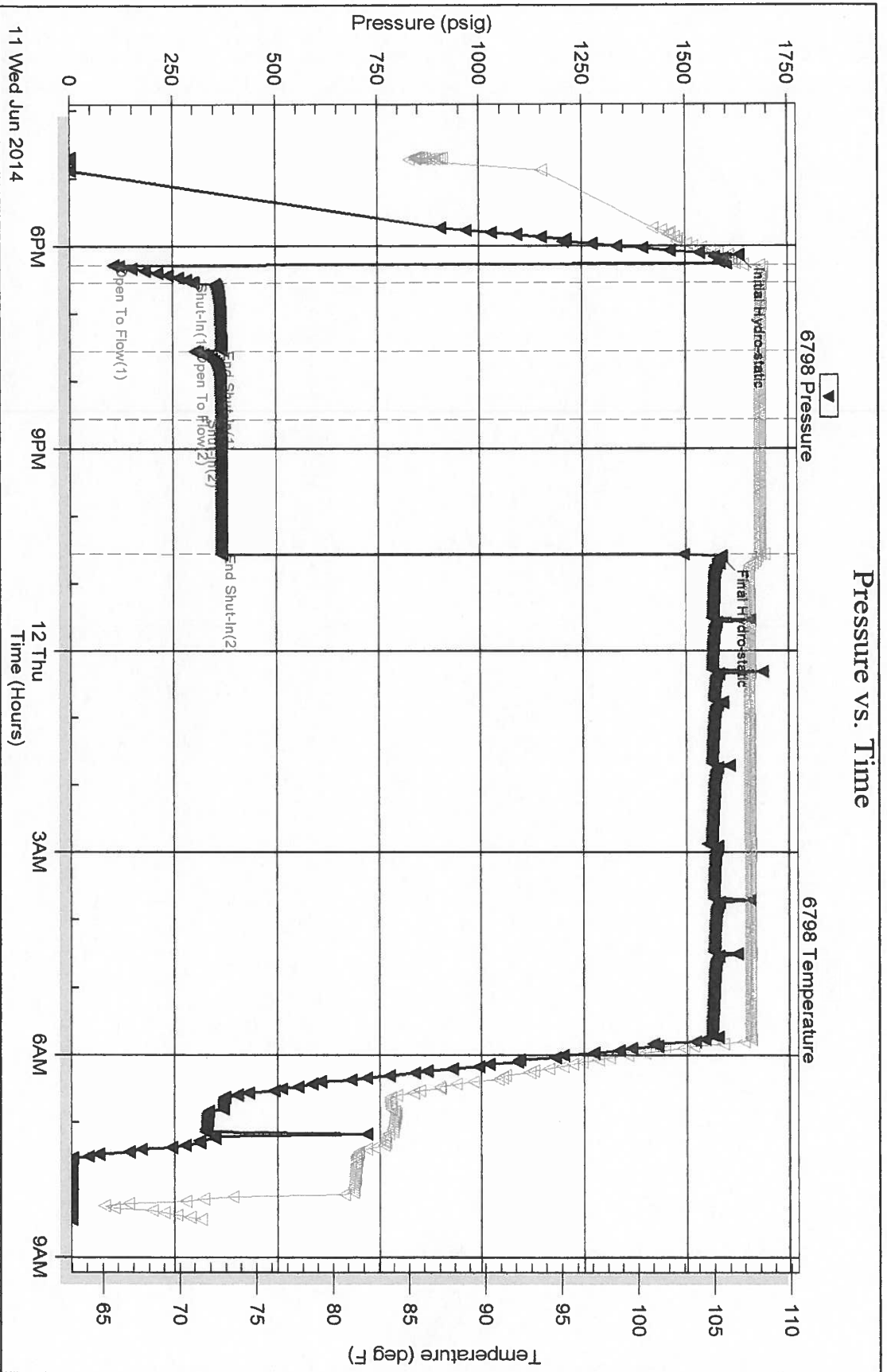
Inside

Berenergy Corporation

Roetzel A 27

DST Test Number: 2

### Pressure vs. Time







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berenergy Corporation

24-20S-11W Barton

PO Box 5850  
Denver, CO 80217

Roetzel A 27

Job Ticket: 58995 **DST#: 2**

ATTN: Ed Buchanan

Test Start: 2014.06.11 @ 16:41:24

## GENERAL INFORMATION:

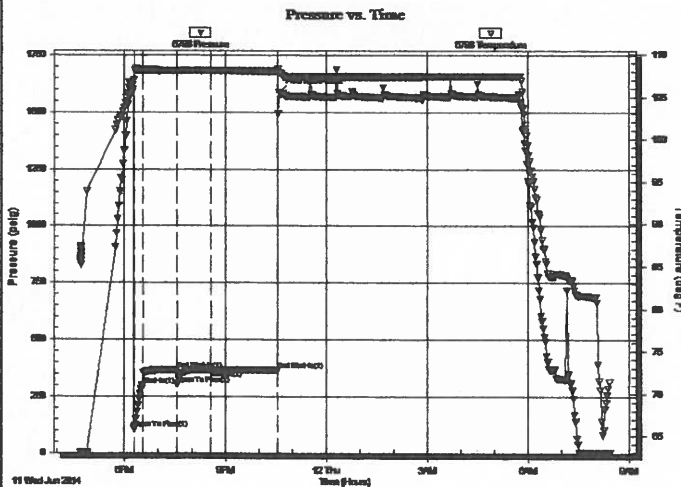
Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:17:09  
 Time Test Ended: 08:26:24  
 Interval: **3250.00 ft (KB) To 3257.00 ft (KB) (TVD)**  
 Total Depth: 3256.50 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 1759.00 ft (KB)  
 1749.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 6798

Inside

Press@RunDepth: 367.59 psig @ 3250.50 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.06.11 End Date: 2014.06.12 Last Calib.: 2014.06.12  
 Start Time: 16:41:24 End Time: 08:26:24 Time On Btm: 2014.06.11 @ 18:08:09  
 Time Off Btm: 2014.06.11 @ 22:36:09

TEST COMMENT: IF: Strong Blow, BOB in 90 seconds  
 IS: No Blow Back  
 FF: Weak Blow, Built to 6 inches by 8 minutes, Dead @ 25 minutes  
 FSI: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.67	106.02	Initial Hydro-static
9	105.84	106.98	Open To Flow (1)
25	301.05	108.12	Shut-In(1)
85	367.61	108.10	End Shut-In(1)
86	303.61	108.07	Open To Flow (2)
146	367.59	108.07	Shut-In(2)
266	368.18	108.05	End Shut-In(2)
268	1587.85	107.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
800.00	MCW 20%M 80%W	11.22
6.00	SOMCW 1%O 24%M 75%W	0.08

\* Recovery from multiple tests

## Gas Rates

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