



## DRILL STEM TEST REPORT

Prepared For: **American Land and Energy LLC**

7277 Tenby Way  
Castle Rock CO 80104

ATTN: Rod Anderson

### **Braun Unit #1**

### **8-15s-16w Ellis,KS**

Start Date: 2014.03.29 @ 14:30:00

End Date: 2014.03.29 @ 22:44:15

Job Ticket #: 54107                      DST #: 1

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

Printed: 2014.04.03 @ 09:58:33



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

ATTN: Rod Anderson

Job Ticket: 54107

**DST#: 1**

Test Start: 2014.03.29 @ 14:30:00

## GENERAL INFORMATION:

Formation: **KC"A-B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:19:45

Time Test Ended: 22:44:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3178.00 ft (KB) To 3233.00 ft (KB) (TVD)**

Reference Elevations: 1916.00 ft (KB)

Total Depth: 3233.00 ft (KB) (TVD)

1910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8934 Inside**

Press@RunDepth: 210.34 psig @ 3181.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.29 End Date: 2014.03.29

Last Calib.: 2014.03.29

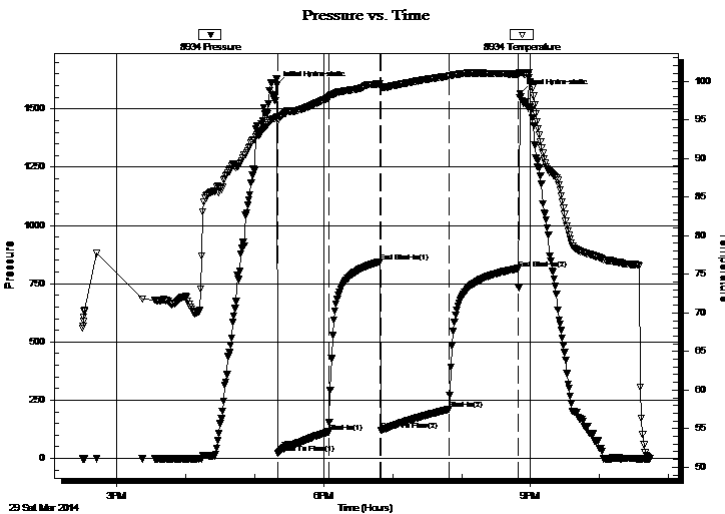
Start Time: 14:30:05 End Time: 22:44:14

Time On Btm: 2014.03.29 @ 17:19:15

Time Off Btm: 2014.03.29 @ 20:51:00

**TEST COMMENT:** IF-BOB in 10 min  
IS-2 1/4" blow  
FF-BOB in 14 min  
FS- 2" blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1601.81	95.31	Initial Hydro-static
1	23.05	94.80	Open To Flow (1)
45	113.89	97.84	Shut-In(1)
90	843.60	99.64	End Shut-In(1)
91	119.83	99.31	Open To Flow (2)
150	210.34	100.63	Shut-In(2)
211	815.15	100.90	End Shut-In(2)
212	1565.24	101.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	Oil spotted MCW 90%W 10%M	4.42
65.00	VSOMCW 2%O 78%W 20%M	0.91
30.00	GO 15%G 85%O	0.42
0.00	210ft GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

Job Ticket: 54107

**DST#: 1**

ATTN: Rod Anderson

Test Start: 2014.03.29 @ 14:30:00

## Tool Information

Drill Pipe:	Length: 3164.00 ft	Diameter: 3.80 inches	Volume: 44.38 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 63000.00 lb
			<u>Total Volume: 44.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3178.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	84.00 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			3154.00	
Sampler	2.00			3156.00	
Hydraulic tool	5.00			3161.00	
Jars	5.00			3166.00	
Safety Joint	2.00			3168.00	
Packer	5.00			3173.00	29.00 Bottom Of Top Packer
Packer	5.00			3178.00	
Stubb	1.00			3179.00	
Perforations	2.00			3181.00	
Recorder	0.00	8934	Inside	3181.00	
Recorder	0.00	8736	Outside	3181.00	
Change Over Sub	1.00			3182.00	
Blank Spacing	32.00			3214.00	
Change Over Sub	1.00			3215.00	
Perforations	15.00			3230.00	
Bullnose	3.00			3233.00	55.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>84.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

Job Ticket: 54107

**DST#: 1**

ATTN: Rod Anderson

Test Start: 2014.03.29 @ 14:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

95000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
315.00	Oil spotted MCW 90%W 10%M	4.419
65.00	VSOMCW 2%O 78%W 20%M	0.912
30.00	GO 15%G 85%O	0.421
0.00	210ft GIP	0.000

Total Length: 410.00 ft      Total Volume: 5.752 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

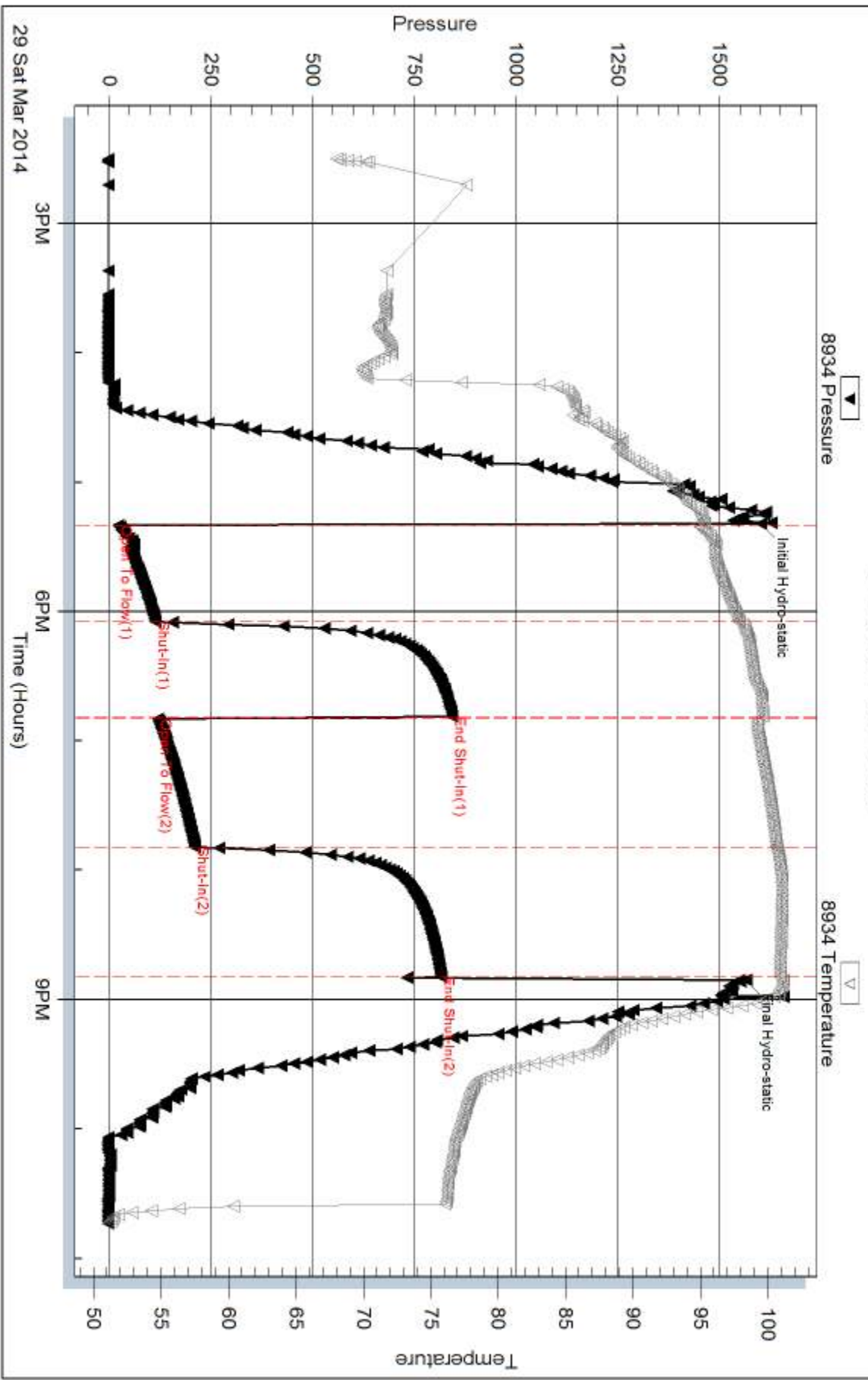
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Data 450psi 100ml Oil 1900ml Water

### Pressure vs. Time

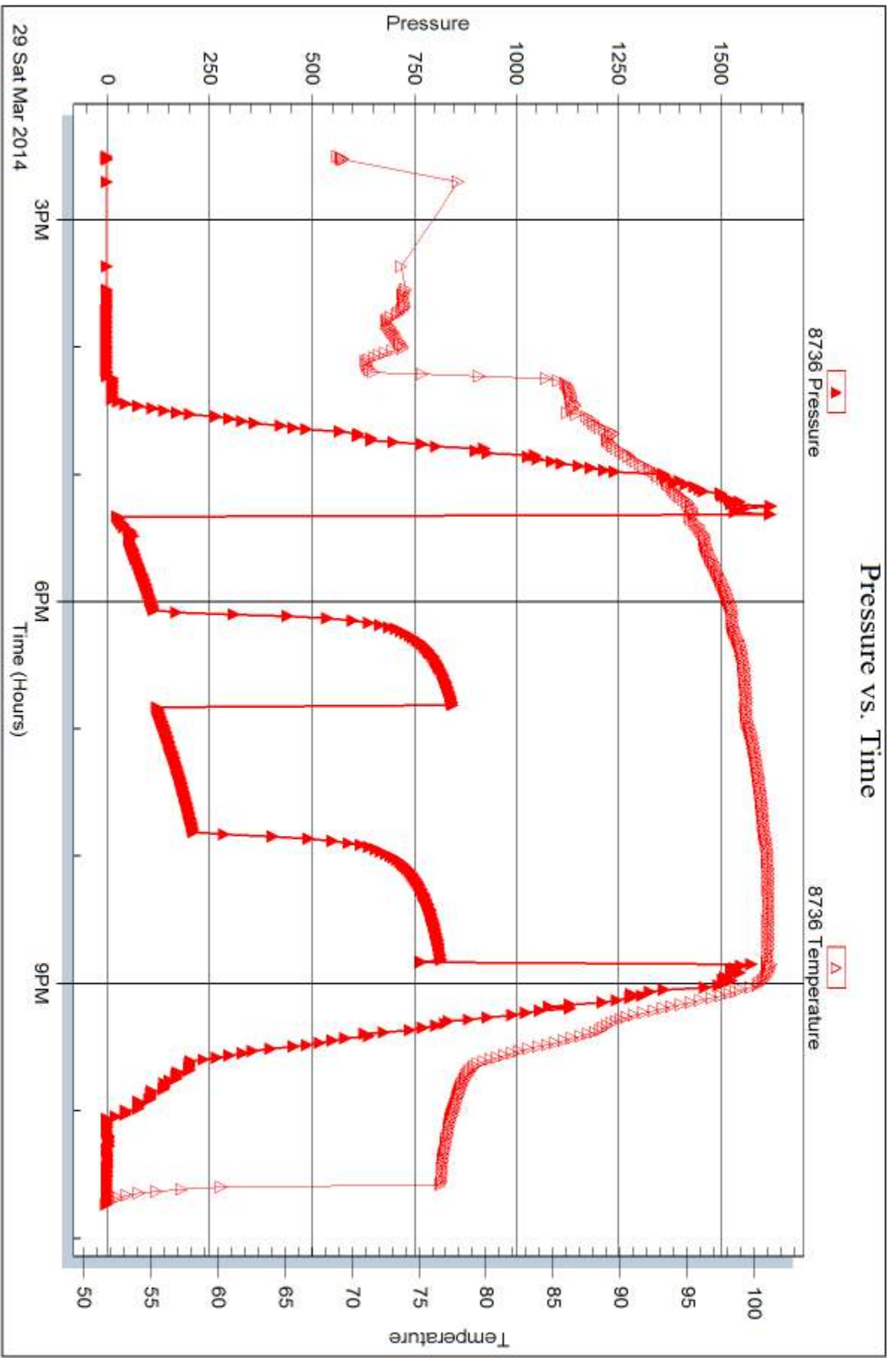


Serial #: 8736

Outside American Land and Energy LLC

Braun Unit #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 54107

Printed: 2014.04.03 @ 09:58:35



## DRILL STEM TEST REPORT

Prepared For: **American Land and Energy LLC**

7277 Tenby Way  
Castle Rock CO 80104

ATTN: Rod Anderson

### **Braun Unit #1**

### **8-15s-16w Ellis,KS**

Start Date: 2014.03.30 @ 04:59:00

End Date: 2014.03.30 @ 09:59:30

Job Ticket #: 54108                      DST #: 2

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

Printed: 2014.04.03 @ 09:57:55





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

ATTN: Rod Anderson

Job Ticket: 54108

**DST#: 2**

Test Start: 2014.03.30 @ 04:59:00

## GENERAL INFORMATION:

Formation: **KC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:22:45

Time Test Ended: 09:59:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3234.00 ft (KB) To 3260.00 ft (KB) (TVD)**

Reference Elevations: 1916.00 ft (KB)

Total Depth: 3260.00 ft (KB) (TVD)

1910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8934**

**Inside**

Press@RunDepth: 16.90 psig @ 3237.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.30

End Date:

2014.03.30

Last Calib.:

2014.03.30

Start Time:

04:59:05

End Time:

09:59:29

Time On Btm:

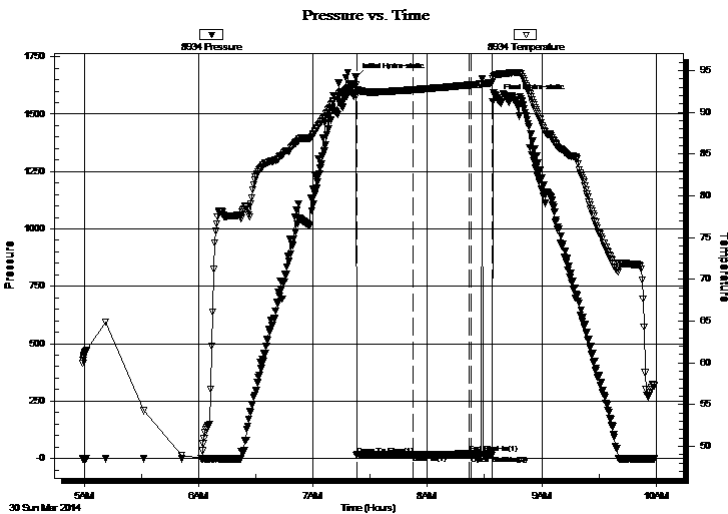
2014.03.30 @ 07:22:15

Time Off Btm:

2014.03.30 @ 08:36:45

TEST COMMENT: IF-Very weak surface blow  
IS- No blow  
FF-No blow Flush tool No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1661.24	93.26	Initial Hydro-static
1	14.85	92.13	Open To Flow (1)
30	16.90	92.67	Shut-In(1)
60	20.04	93.25	End Shut-In(1)
61	14.63	93.26	Open To Flow (2)
72	12.81	93.53	Shut-In(2)
75	1566.25	94.51	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.01

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

Job Ticket: 54108

**DST#: 2**

ATTN: Rod Anderson

Test Start: 2014.03.30 @ 04:59:00

## Tool Information

Drill Pipe:	Length: 3228.00 ft	Diameter: 3.80 inches	Volume: 45.28 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 58000.00 lb
			<u>Total Volume: 45.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3234.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 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			3212.00	
Hydraulic tool	5.00			3217.00	
Jars	5.00			3222.00	
Safety Joint	2.00			3224.00	
Packer	5.00			3229.00	27.00 Bottom Of Top Packer
Packer	5.00			3234.00	
Stubb	1.00			3235.00	
Perforations	2.00			3237.00	
Recorder	0.00	8934	Inside	3237.00	
Recorder	0.00	8736	Outside	3237.00	
Perforations	20.00			3257.00	
Bullnose	3.00			3260.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

Job Ticket: 54108

**DST#: 2**

ATTN: Rod Anderson

Test Start: 2014.03.30 @ 04:59:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.014

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

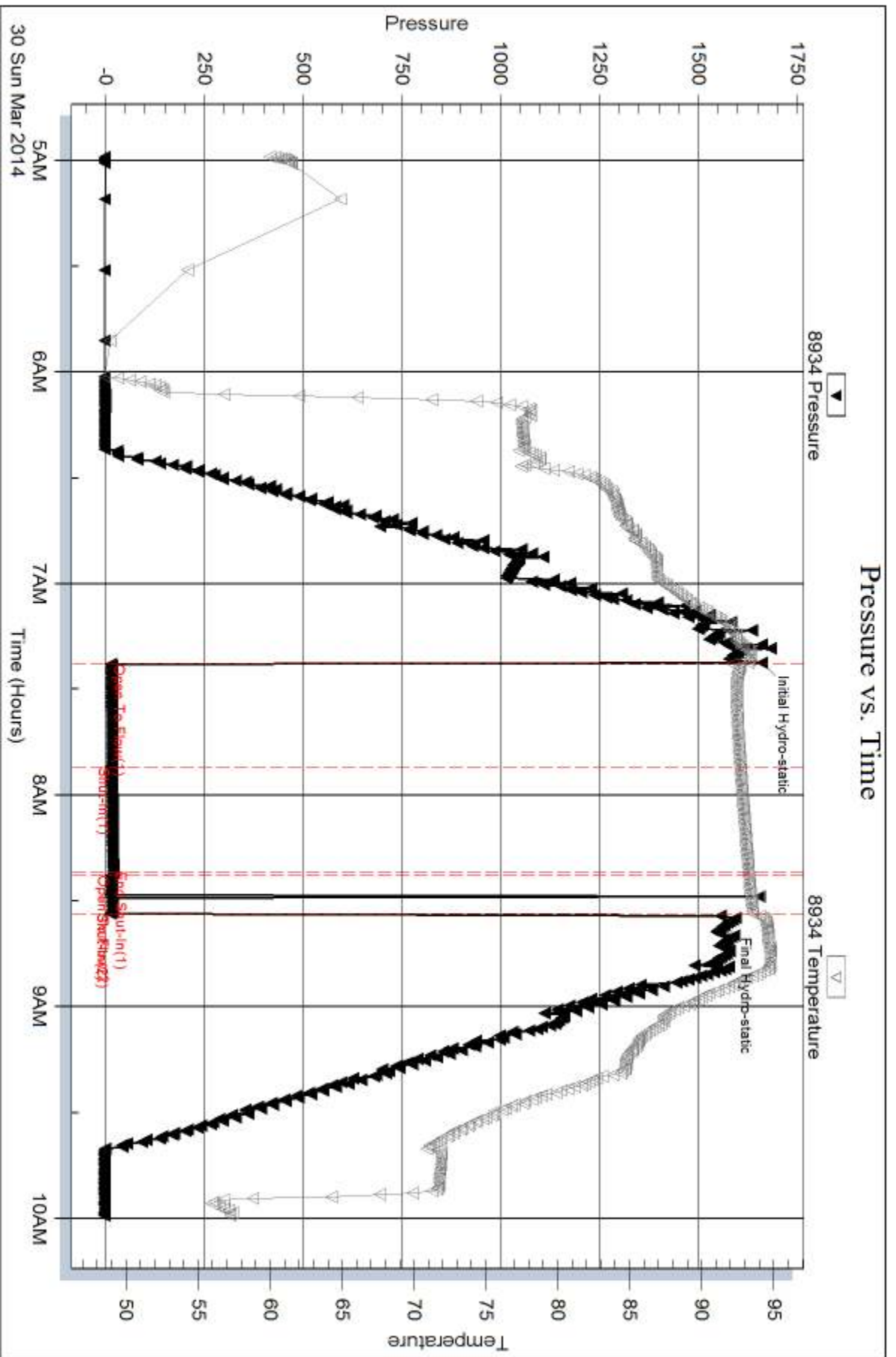
Num Gas Bombs: 0

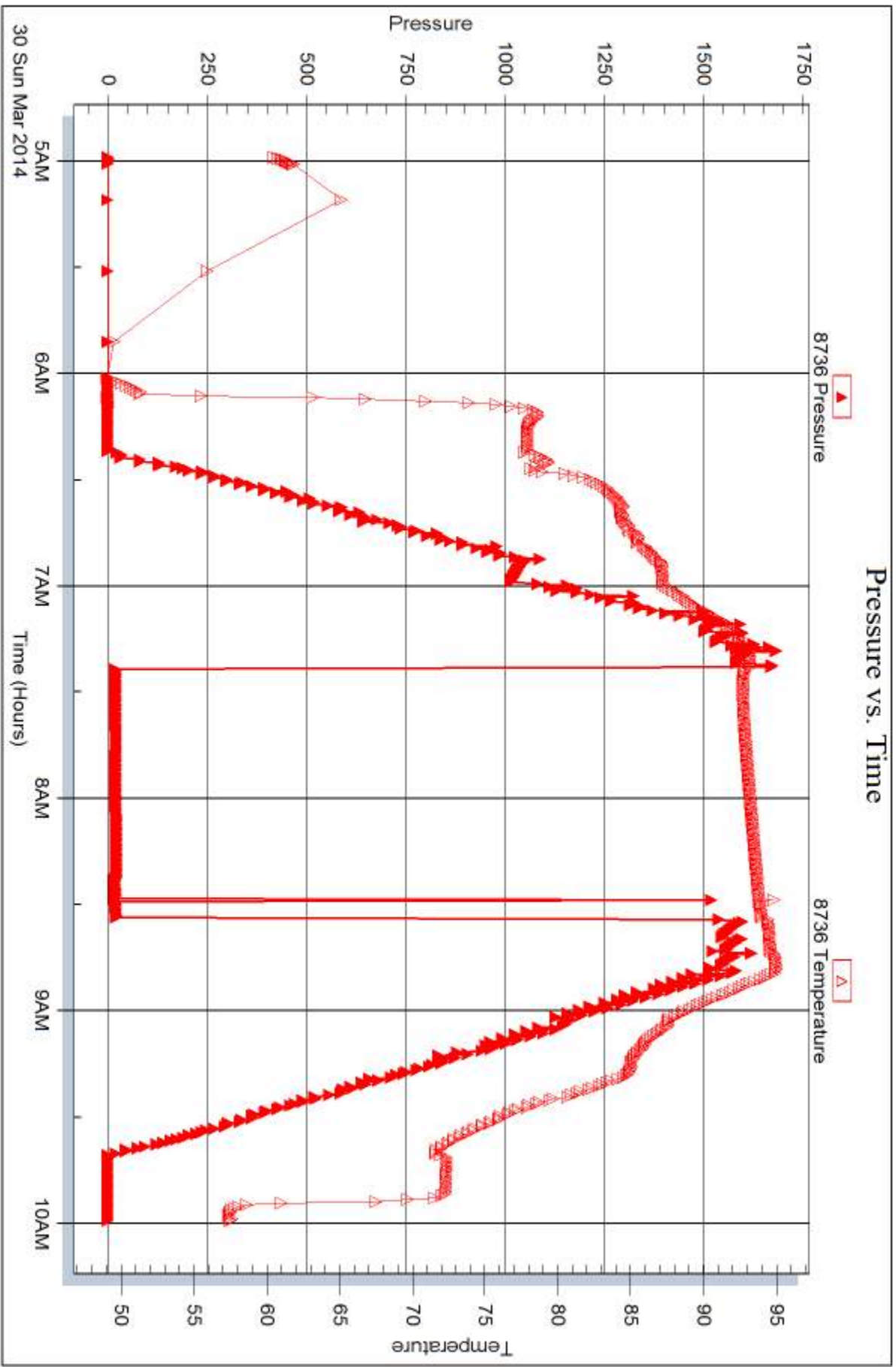
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **American Land and Energy LLC**

7277 Tenby Way  
Castle Rock CO 80104

ATTN: Rod Anderson

### **Braun Unit #1**

### **8-15s-16w Ellis,KS**

Start Date: 2014.03.30 @ 22:15:00

End Date: 2014.03.31 @ 03:28:00

Job Ticket #: 54109                      DST #: 3

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

Printed: 2014.04.03 @ 09:57:24



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

ATTN: Rod Anderson

Job Ticket: 54109

**DST#: 3**

Test Start: 2014.03.30 @ 22:15:00

## GENERAL INFORMATION:

Formation: **KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:32:15  
 Time Test Ended: 03:28:00  
 Interval: **3343.00 ft (KB) To 3410.00 ft (KB) (TVD)**  
 Total Depth: 3410.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 1916.00 ft (KB)  
 1910.00 ft (CF)  
 KB to GR/CF: 6.00 ft

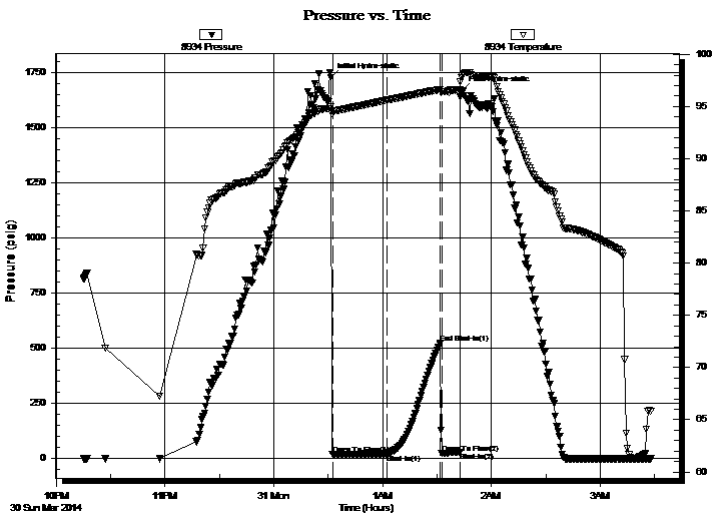
## Serial #: 8934

Inside

Press@RunDepth: 20.66 psig @ 3346.00 ft (KB)  
 Start Date: 2014.03.30 End Date: 2014.03.31  
 Start Time: 22:15:05 End Time: 03:27:59  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.03.31  
 Time On Btm: 2014.03.31 @ 00:31:30  
 Time Off Btm: 2014.03.31 @ 01:44:00

TEST COMMENT: IF-1/4" blow  
 IS-No blow  
 FF-No blow flush tool surge No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.81	94.97	Initial Hydro-static
1	17.52	94.31	Open To Flow (1)
31	20.66	95.60	Shut-In(1)
61	523.46	96.63	End Shut-In(1)
61	22.71	96.44	Open To Flow (2)
71	27.78	96.64	Shut-In(2)
73	1666.23	97.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OS Mud	0.14

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

Job Ticket: 54109

**DST#: 3**

ATTN: Rod Anderson

Test Start: 2014.03.30 @ 22:15:00

## Tool Information

Drill Pipe:	Length: 3324.00 ft	Diameter: 3.80 inches	Volume: 46.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 59000.00 lb
			<u>Total Volume: 46.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3343.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	94.00 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			3321.00	
Hydraulic tool	5.00			3326.00	
Jars	5.00			3331.00	
Safety Joint	2.00			3333.00	
Packer	5.00			3338.00	27.00 Bottom Of Top Packer
Packer	5.00			3343.00	
Stubb	1.00			3344.00	
Perforations	2.00			3346.00	
Recorder	0.00	8934	Inside	3346.00	
Recorder	0.00	8736	Outside	3346.00	
Change Over Sub	1.00			3347.00	
Blank Spacing	32.00			3379.00	
Change Over Sub	1.00			3380.00	
Perforations	27.00			3407.00	
Bullnose	3.00			3410.00	67.00 Bottom Packers & Anchor

**Total Tool Length: 94.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Land and Energy LLC

**8-15s-16w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80104

**Braun Unit #1**

Job Ticket: 54109

**DST#: 3**

ATTN: Rod Anderson

Test Start: 2014.03.30 @ 22:15:00

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OS Mud	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

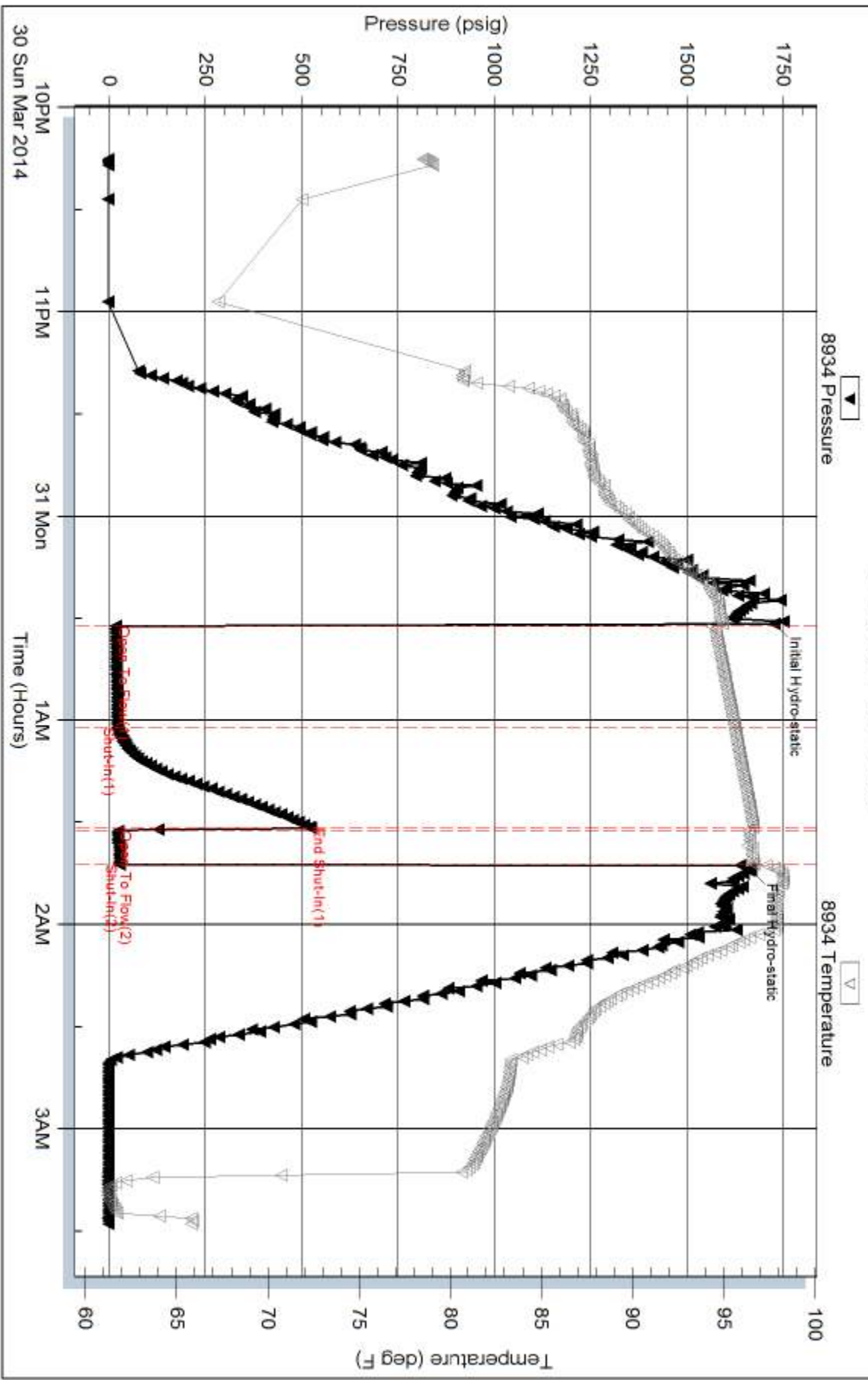
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

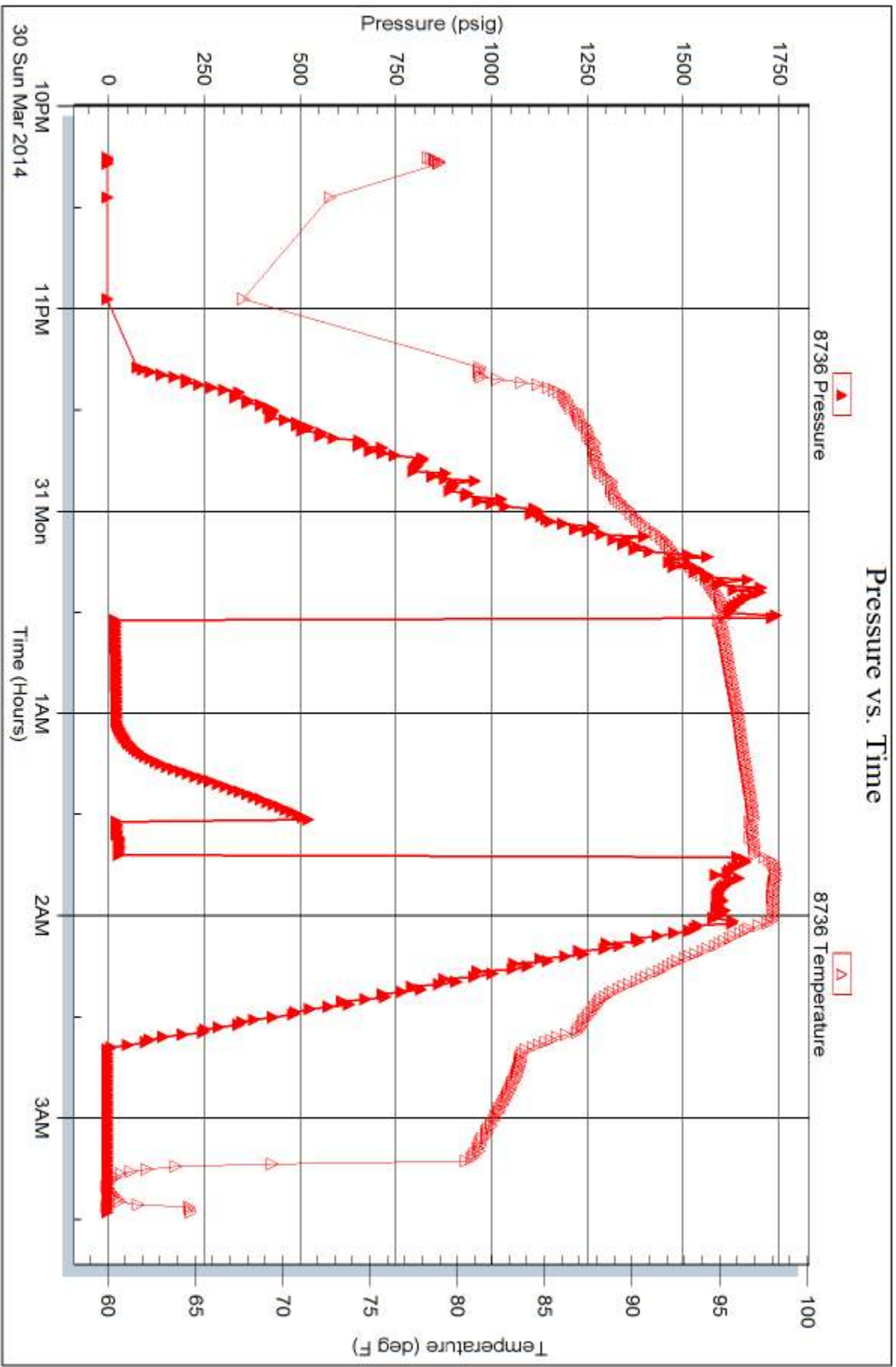


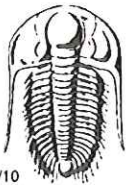
Serial #: 8736

Outside American Land and Energy LLC

Braun Unit #1

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54107

Well Name & No. Braun Unit #1 Test No. 1 Date 3/29/14  
 Company American Land and Energy LLC Elevation 1916 KB 1910 GL  
 Address 7277 Tenby Way Castle Rock CO 80104  
 Co. Rep / Geo. \_\_\_\_\_ Rig Royal #1  
 Location: Sec. 8 Twp. 15 Rge. 16 Co. Ellis State KS

Interval Tested 3178-3233 Zone Tested KC "A-B"  
 Anchor Length 55 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 3173 Drill Collars Run \_\_\_\_\_ Vis 52  
 Bottom Packer Depth 3178 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 3233 Chlorides 4,000 ppm System LCM 1#  
 Blow Description FE - BOB in 10 min  
ISF - 2 1/2 in blow  
FP - BOB in 14 min  
ESP - 2 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>60</u>	<u>15</u>	<u>85</u>		
<u>65</u>	<u>YSOMCW</u>		<u>2</u>	<u>78</u>	<u>20</u>
<u>315</u>	<u>OSMCW</u>			<u>90</u>	<u>10</u>
_____	_____				
_____	_____				

Rec Total 410 BHT 101 Gravity 33 API RW 12 @ 50 °F Chlorides 95,000 ppm

(A) Initial Hydrostatic <u>1,602</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:30</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:30</u>
(C) First Final Flow <u>114</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>17:20</u>
(D) Initial Shut-In <u>844</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>20:50</u>
(E) Second Initial Flow <u>120</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:45</u>
(F) Second Final Flow <u>210</u>	<input checked="" type="checkbox"/> Mileage <u>32.7</u> <u>49.60</u>	Comments _____
(G) Final Shut-In <u>815</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	_____
(H) Final Hydrostatic <u>1,565</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1774.60</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1774.60</u>	

Approved By \_\_\_\_\_ Our Representative Burt D...

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. 54107 Date \_\_\_\_\_

Company Name American Lead & Energy

Lease Blaine Unit #1 Test No. 1

County Ellis Sec. 8 Twp. 15 Rng. 16

### SAMPLER RECOVERY

Gas ~~1000~~ ML  
Oil 100 ~~1000~~ ML  
Mud \_\_\_\_\_ ML  
Water 1900 ~~100~~ ML  
Other \_\_\_\_\_ ML  
Pressure 450 psi ~~ME~~  
Total 2000 ML

### PIT MUD ANALYSIS

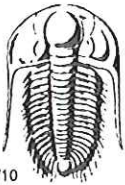
Chlorides \_\_\_\_\_ ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity \_\_\_\_\_  
Mud Weight \_\_\_\_\_  
Filtrate \_\_\_\_\_  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides 95000 ppm.  
Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

**TOP**  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
**MIDDLE**  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
**BOTTOM**  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54108

Well Name & No. Braun Unit #1 Test No. 2 Date 3/30/14  
 Company American Land & Energy LLC Elevation 1916 KB 1910 GL  
 Address 7277 Tenby Way Castle Rock Co 80104  
 Co. Rep / Geo. \_\_\_\_\_ Rig Royal #1  
 Location: Sec. 8 Twp. 15 Rge. 16 Co. Ellis State KS

Interval Tested 3234-3260 Zone Tested KC" c "  
 Anchor Length 26 Drill Pipe Run 3228 Mud Wt. 9.3  
 Top Packer Depth 3229 Drill Collars Run — Vis 5.2  
 Bottom Packer Depth 3234 Wt. Pipe Run — WL 8.8  
 Total Depth 3260 Chlorides 4,000 ppm System LCM 1  
 Blow Description IF - Very weak surface blow  
ISZ - No blow  
EF - No blow (flush tool No. blow)

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</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

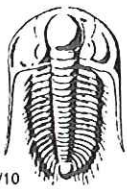
Rec Total 1 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>4661</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:55</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:59</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:23</u>
(D) Initial Shut-In <u>20</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>8:33</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:00</u>
(F) Second Final Flow _____	<input checked="" type="checkbox"/> Mileage <u>32.7</u> <del>49.6</del>	Comments <u>boxed tools</u>
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	<u>5/1/14</u>
(H) Final Hydrostatic <u>1566</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	Total <u>1524.60</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1524.60</u>	

Approved By \_\_\_\_\_ Our Representative Bur D...

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. 54109

Well Name & No. Braun Unit #1 Test No. 3 Date 3/30/14  
 Company American Land & Energy LLC Elevation 1916 KB 1910 GL  
 Address 7277 Penby Way Castle Rock Co 80104  
 Co. Rep / Geo. \_\_\_\_\_ Rig Royal #1  
 Location: Sec. 8 Twp. 15 Rge. 16 Co. Ellis State KS

Interval Tested 3343 - 3410 Zone Tested KC  
 Anchor Length 67 Drill Pipe Run \_\_\_\_\_ Mud Wt. \_\_\_\_\_  
 Top Packer Depth 3338 Drill Collars Run \_\_\_\_\_ Vis \_\_\_\_\_  
 Bottom Packer Depth 3343 Wt. Pipe Run \_\_\_\_\_ WL \_\_\_\_\_  
 Total Depth 3410 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_  
 Blow Description IF 1/4 in blow  
IS - No blow  
FF - No blow 4 flush tool surge No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OS Mud</u>			<u>100</u>	
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 10 BHT 97 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,726  Test 1150 T-On Location 22:00  
 (B) First Initial Flow 18  Jars 250 T-Started 22:15  
 (C) First Final Flow 21  Safety Joint 75 T-Open 00:30  
 (D) Initial Shut-In 523  Circ Sub \_\_\_\_\_ T-Pulled 1:40  
 (E) Second Initial Flow 23  Hourly Standby \_\_\_\_\_ T-Out 3:25  
 (F) Second Final Flow \_\_\_\_\_  Mileage 32-7X2 99.20 Comments loaded tools  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_ 5/1/14 @ 5:00 am  
 (H) Final Hydrostatic 1,666  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 800  
 Initial Shut-In 30  Day Standby 1d 1.5h Total 2374.20  
 Final Flow 10  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 1574.20

Approved By \_\_\_\_\_ Our Representative BWD  
 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.