



## DRILL STEM TEST REPORT

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

7277 Tenby Way  
Castle Rock CO 80108

ATTN: Lyle Herrman

### **Dreiling #1**

#### **24-14s-17w Ellis,KS**

Start Date: 2014.12.01 @ 11:40:00

End Date: 2014.12.01 @ 17:18:15

Job Ticket #: 62540                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.05 @ 10:56:26



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Land & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62540

**DST#: 1**

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 11:40:00

## GENERAL INFORMATION:

Formation: **KC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:01:15

Time Test Ended: 17:18:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3238.00 ft (KB) To 3293.00 ft (KB) (TVD)**

Reference Elevations: 1956.00 ft (KB)

Total Depth: 3293.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8957**

**Inside**

Press@RunDepth: 23.59 psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.01

End Date:

2014.12.01

Last Calib.: 2014.12.01

Start Time: 11:40:05

End Time:

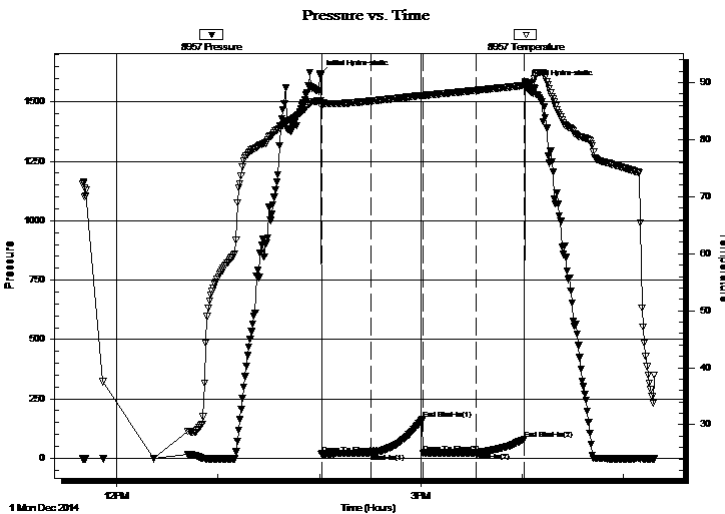
17:18:14

Time On Btm: 2014.12.01 @ 14:00:30

Time Off Btm: 2014.12.01 @ 16:02:00

TEST COMMENT: IF-3/4" blow  
IS-No blow  
FF-Weak surface blow  
FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.28	86.78	Initial Hydro-static
1	17.97	85.80	Open To Flow (1)
30	20.47	86.76	Shut-In(1)
61	165.90	87.76	End Shut-In(1)
61	20.77	87.67	Open To Flow (2)
93	23.59	88.64	Shut-In(2)
121	79.54	89.48	End Shut-In(2)
122	1573.13	89.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OS Mud	0.21

## Gas Rates

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

American Land & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62540

**DST#: 1**

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 11:40:00

## GENERAL INFORMATION:

Formation: **KC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:01:15

Time Test Ended: 17:18:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3238.00 ft (KB) To 3293.00 ft (KB) (TVD)**

Reference Elevations: 1956.00 ft (KB)

Total Depth: 3293.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8736 Outside**

Press@RunDepth: psig @ 3239.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.01 End Date: 2014.12.01

Last Calib.: 2014.12.01

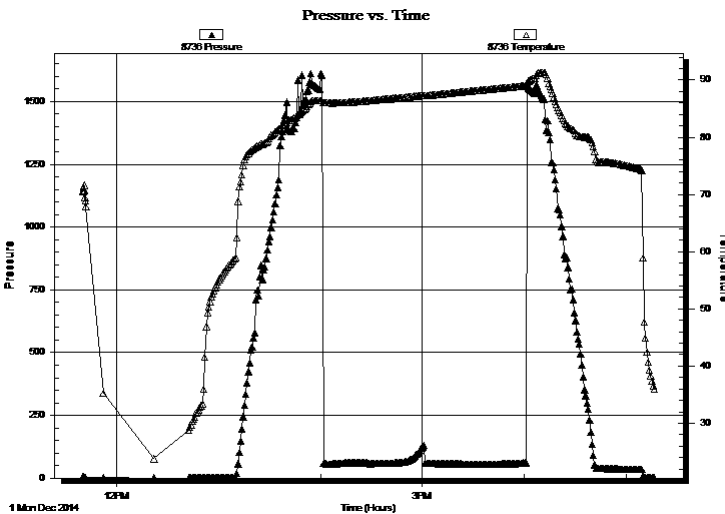
Start Time: 11:40:05 End Time: 17:17:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-3/4" blow  
IS-No blow  
FF-Weak surface blow  
FS-No blow

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	OS Mud	0.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Land & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62540

**DST#: 1**

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 11:40:00

## Tool Information

Drill Pipe:	Length: 3248.00 ft	Diameter: 3.80 inches	Volume: 45.56 bbl	Tool Weight: 2000.00 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: 65000.00 lb
			<u>Total Volume: 45.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3238.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3223.00	
Hydraulic tool	5.00			3228.00	
Packer	5.00			3233.00	20.00 Bottom Of Top Packer
Packer	5.00			3238.00	
Stubb	1.00			3239.00	
Recorder	0.00	8957	Inside	3239.00	
Recorder	0.00	8736	Outside	3239.00	
Perforations	2.00			3241.00	
Change Over Sub	1.00			3242.00	
Drill Pipe	32.00			3274.00	
Change Over Sub	1.00			3275.00	
Perforations	15.00			3290.00	
Bullnose	3.00			3293.00	55.00 Bottom Packers & Anchor

**Total Tool Length: 75.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Land & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62540

**DST#: 1**

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 11:40:00

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OS Mud	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

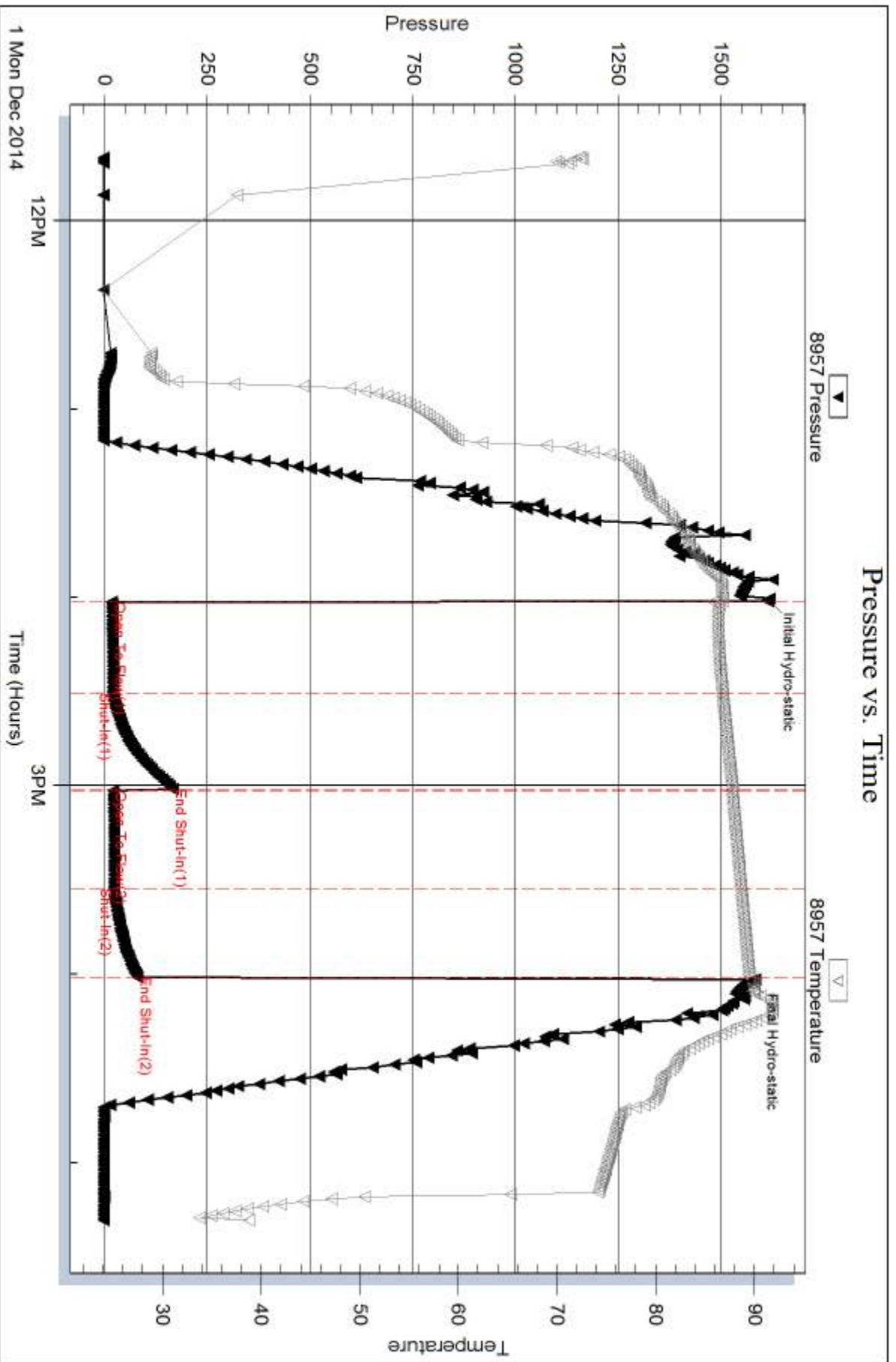
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

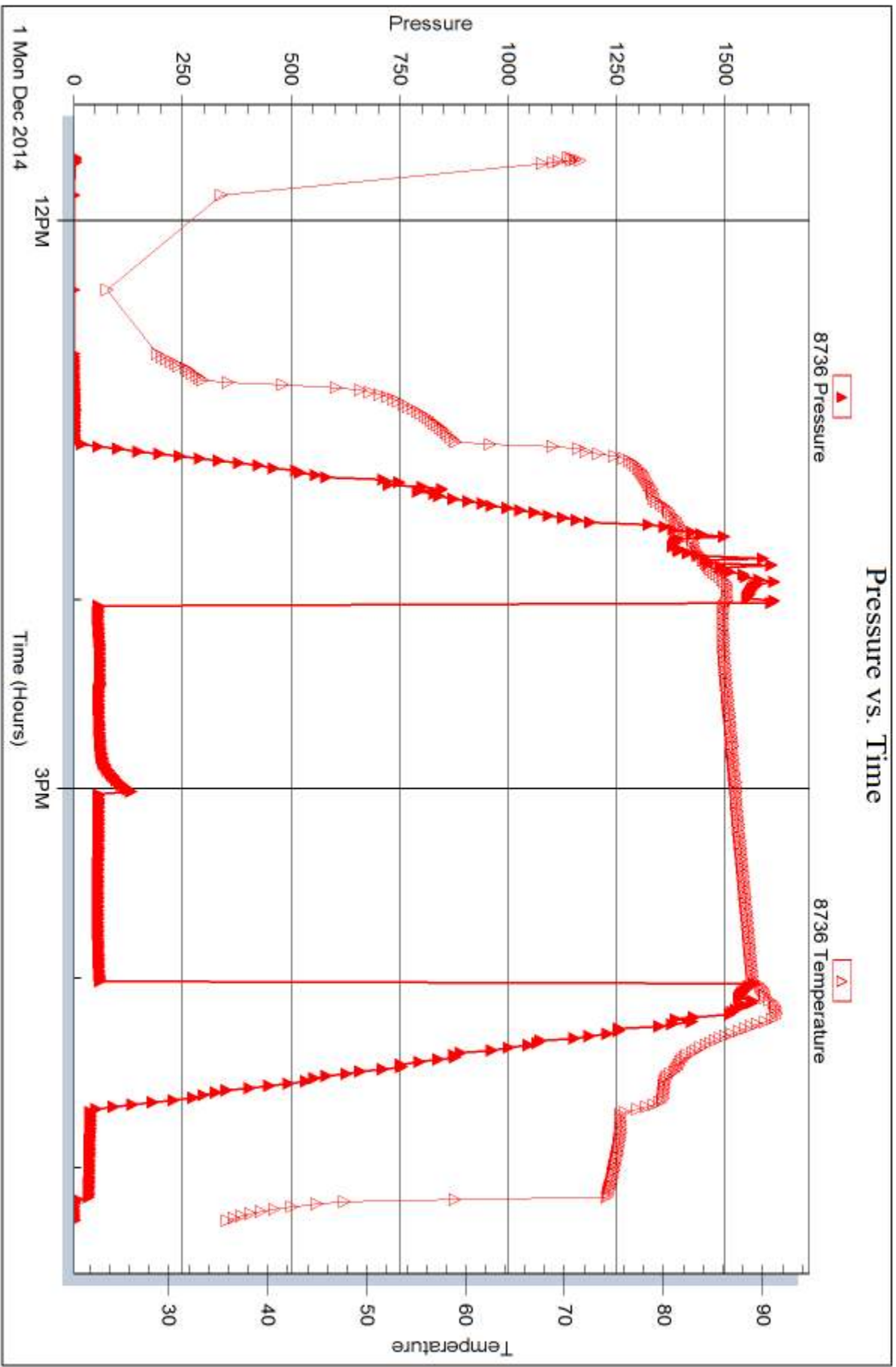


Serial #: 8736

Outside American Land & Energy LLC

Drilling #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62540

Printed: 2014, 12:05 @ 10:56:27



## DRILL STEM TEST REPORT

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

7277 Tenby Way  
Castle Rock CO 80108

ATTN: Lyle Herrman

### **Dreiling #1**

#### **24-14s-17w Ellis,KS**

Start Date: 2014.12.01 @ 22:57:00

End Date: 2014.12.02 @ 04:37:45

Job Ticket #: 62541                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.05 @ 10:56:03

American Land & Energy LLC  
24-14s-17w Ellis,KS  
Dreiling #1  
DST # 2  
KC"E-F"  
2014.12.01





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Land & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62541

**DST#: 2**

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 22:57:00

## GENERAL INFORMATION:

Formation: **KC"E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:15

Time Test Ended: 04:37:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3285.00 ft (KB) To 3320.00 ft (KB) (TVD)**

Reference Elevations: 1956.00 ft (KB)

Total Depth: 3320.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8957**

**Inside**

Press@RunDepth: 34.67 psig @ 3286.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.01

End Date:

2014.12.02

Last Calib.: 2014.12.02

Start Time: 22:57:05

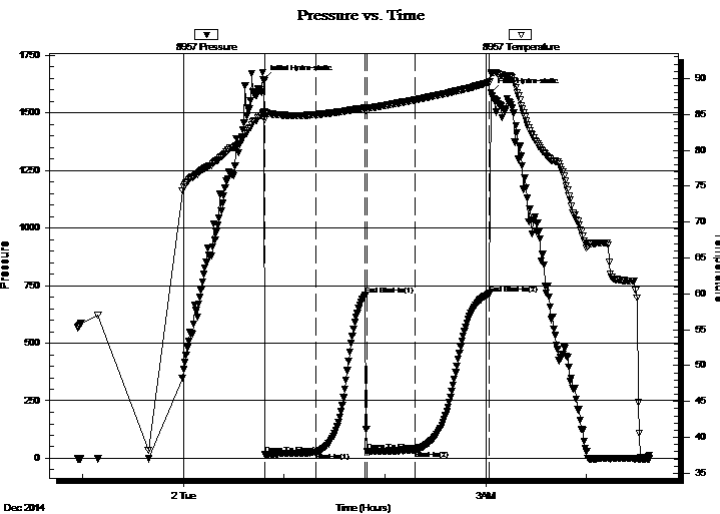
End Time:

04:37:44

Time On Btm: 2014.12.02 @ 00:47:30

Time Off Btm: 2014.12.02 @ 03:03:15

TEST COMMENT: IF-3" blow  
IS-No blow  
FF-2" blow  
FS-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1644.10	85.21	Initial Hydro-static
1	17.47	84.26	Open To Flow (1)
32	25.29	84.98	Shut-In(1)
61	709.60	85.91	End Shut-In(1)
62	30.17	85.84	Open To Flow (2)
91	34.67	87.02	Shut-In(2)
135	715.61	89.48	End Shut-In(2)
136	1586.22	90.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
55.00	SOCM 10%O 90%M	0.77

\* 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 & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62541

**DST#: 2**

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 22:57:00

## Tool Information

Drill Pipe:	Length: 3281.00 ft	Diameter: 3.80 inches	Volume: 46.02 bbl	Tool Weight:	2000.00 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:	60000.00 lb
			<u>Total Volume: 46.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3285.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3270.00	
Hydraulic tool	5.00			3275.00	
Packer	5.00			3280.00	20.00 Bottom Of Top Packer
Packer	5.00			3285.00	
Stubb	1.00			3286.00	
Recorder	0.00	8957	Inside	3286.00	
Recorder	0.00	8736	Outside	3286.00	
Perforations	2.00			3288.00	
Perforations	29.00			3317.00	
Bullnose	3.00			3320.00	35.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>55.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Land & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62541

**DST#: 2**

ATTN: Lyle Herrman

Test Start: 2014.12.01 @ 22:57:00

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
55.00	SOCM 10%O 90%M	0.772

Total Length: 55.00 ft      Total Volume: 0.772 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

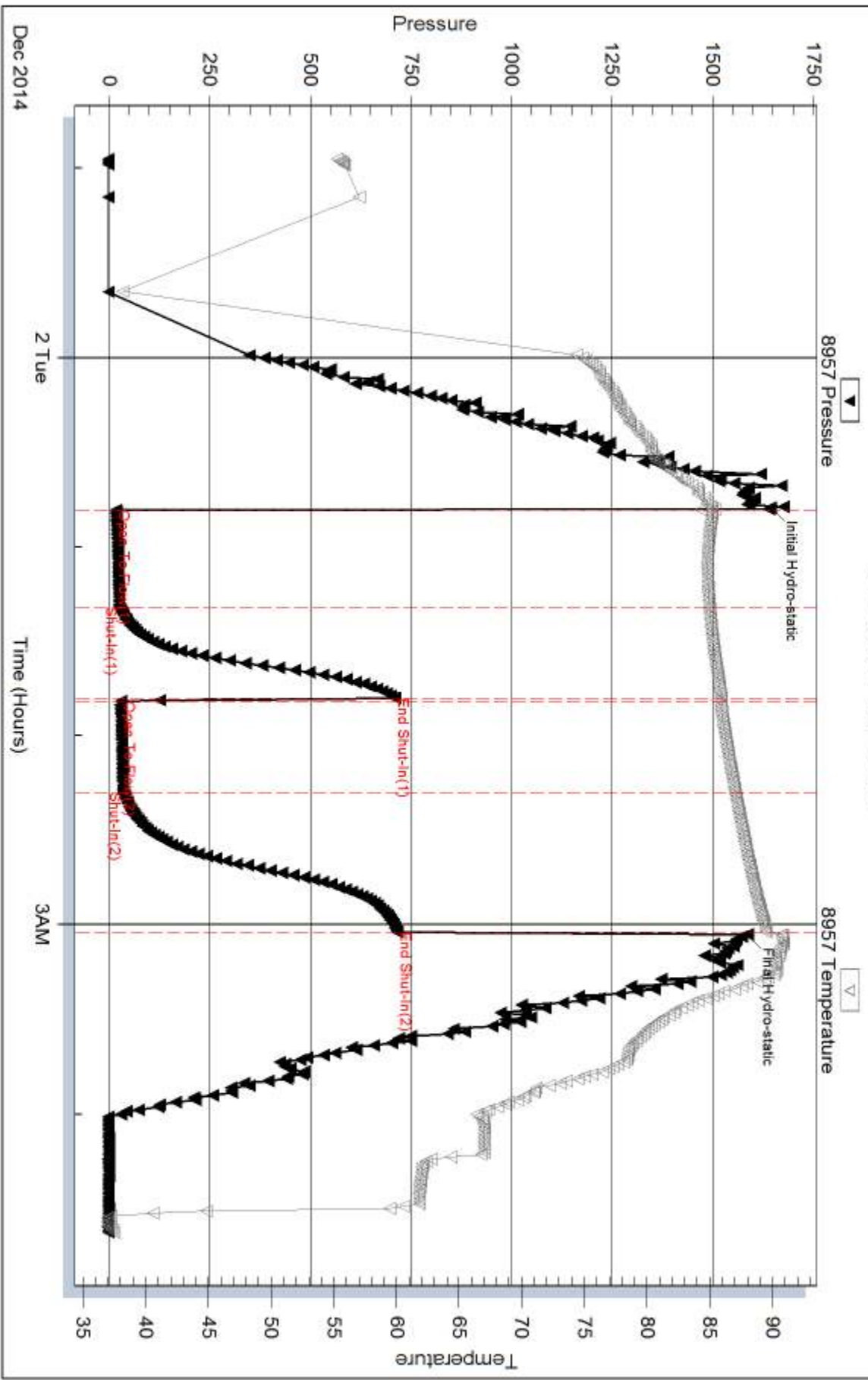
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

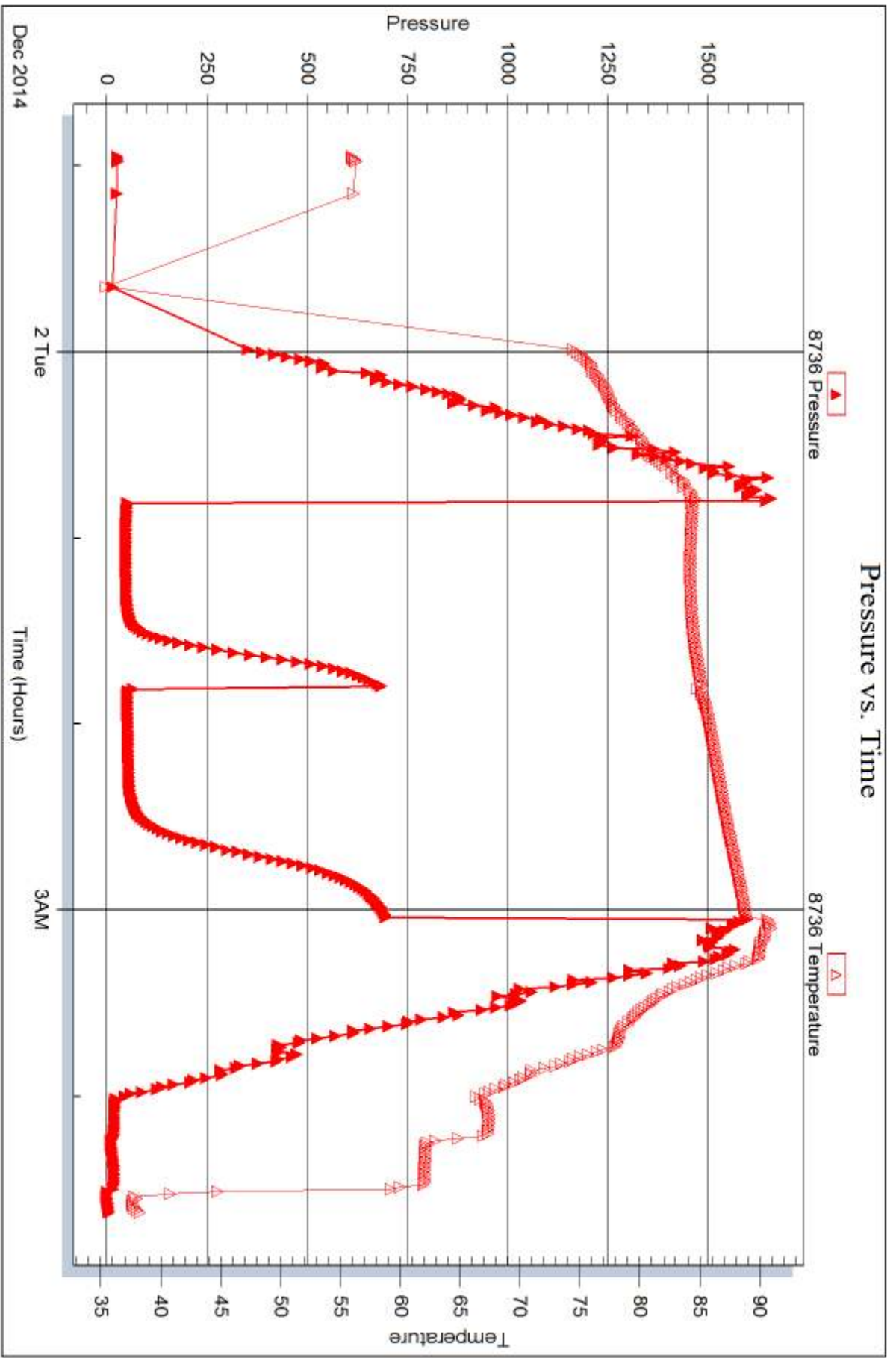


Serial #: 8736

Outside American Land & Energy LLC

Drilling #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 62541

Printed: 2014, 12:05 @ 10:56:04



## DRILL STEM TEST REPORT

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

7277 Tenby Way  
Castle Rock CO 80108

ATTN: Lyle Herrman

### **Dreiling #1**

#### **24-14s-17w Ellis,KS**

Start Date: 2014.12.02 @ 17:35:00

End Date: 2014.12.02 @ 22:55:00

Job Ticket #: 62542                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.05 @ 10:54:14



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Land & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62542

**DST#: 3**

ATTN: Lyle Herrman

Test Start: 2014.12.02 @ 17:35:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:38:15

Time Test Ended: 22:55:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3448.00 ft (KB) To 3490.00 ft (KB) (TVD)**

Reference Elevations: 1956.00 ft (KB)

Total Depth: 3490.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8957 Inside**

Press@RunDepth: 22.66 psig @ 3449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.02 End Date: 2014.12.02

Last Calib.: 2014.12.02

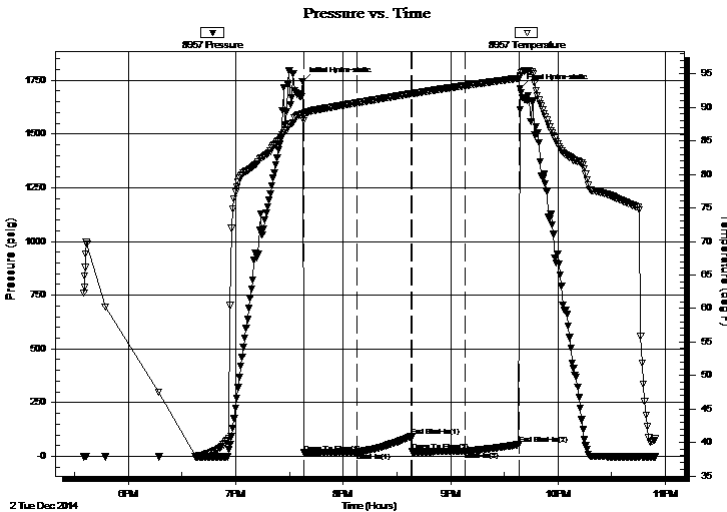
Start Time: 17:35:05 End Time: 22:54:59

Time On Btm: 2014.12.02 @ 19:37:15

Time Off Btm: 2014.12.02 @ 21:39:00

**TEST COMMENT:** IF-1" blow  
IS-Very weak surface blow died in 18 min  
FF-Very weak surface blow  
FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.03	89.06	Initial Hydro-static
1	15.56	88.80	Open To Flow (1)
31	18.10	90.69	Shut-In(1)
61	92.57	92.03	End Shut-In(1)
61	20.94	92.02	Open To Flow (2)
91	22.66	93.26	Shut-In(2)
121	54.61	94.34	End Shut-In(2)
122	1710.24	94.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	OS Mud	0.28

\* 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 & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62542

**DST#: 3**

ATTN: Lyle Herrman

Test Start: 2014.12.02 @ 17:35:00

## Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 bbl	Tool Weight: 2000.00 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: 65000.00 lb
			<u>Total Volume: 48.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3448.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 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			3433.00	
Hydraulic tool	5.00			3438.00	
Packer	5.00			3443.00	20.00 Bottom Of Top Packer
Packer	5.00			3448.00	
Stubb	1.00			3449.00	
Recorder	0.00	8957	Inside	3449.00	
Recorder	0.00	8736	Outside	3449.00	
Perforations	2.00			3451.00	
Change Over Sub	1.00			3452.00	
Drill Pipe	32.00			3484.00	
Change Over Sub	1.00			3485.00	
Perforations	2.00			3487.00	
Bullnose	3.00			3490.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Land & Energy LLC

**24-14s-17w Ellis,KS**

7277 Tenby Way  
Castle Rock CO 80108

**Dreiling #1**

Job Ticket: 62542

**DST#: 3**

ATTN: Lyle Herrman

Test Start: 2014.12.02 @ 17:35:00

## 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: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 11.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 12000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OS Mud	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

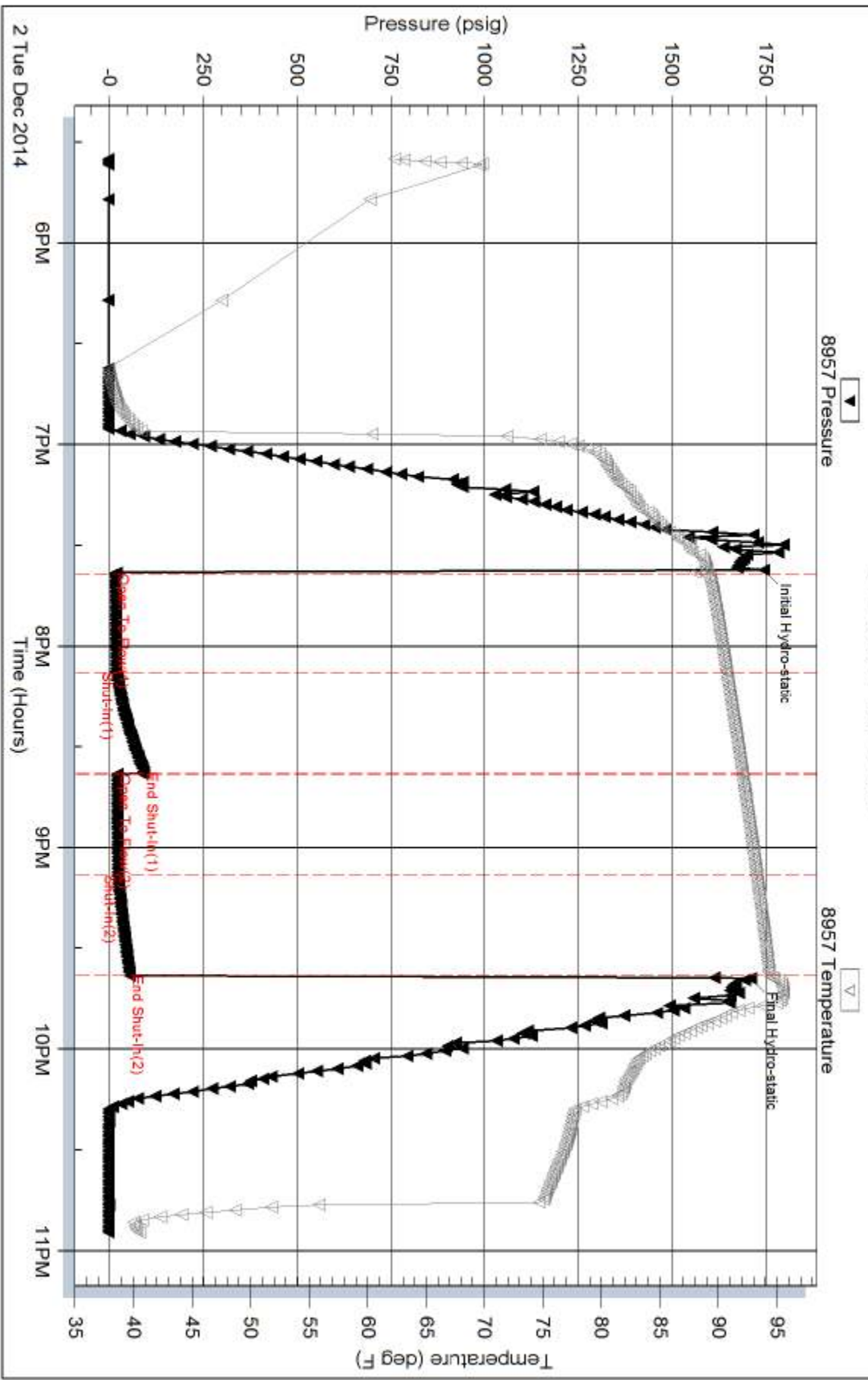
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

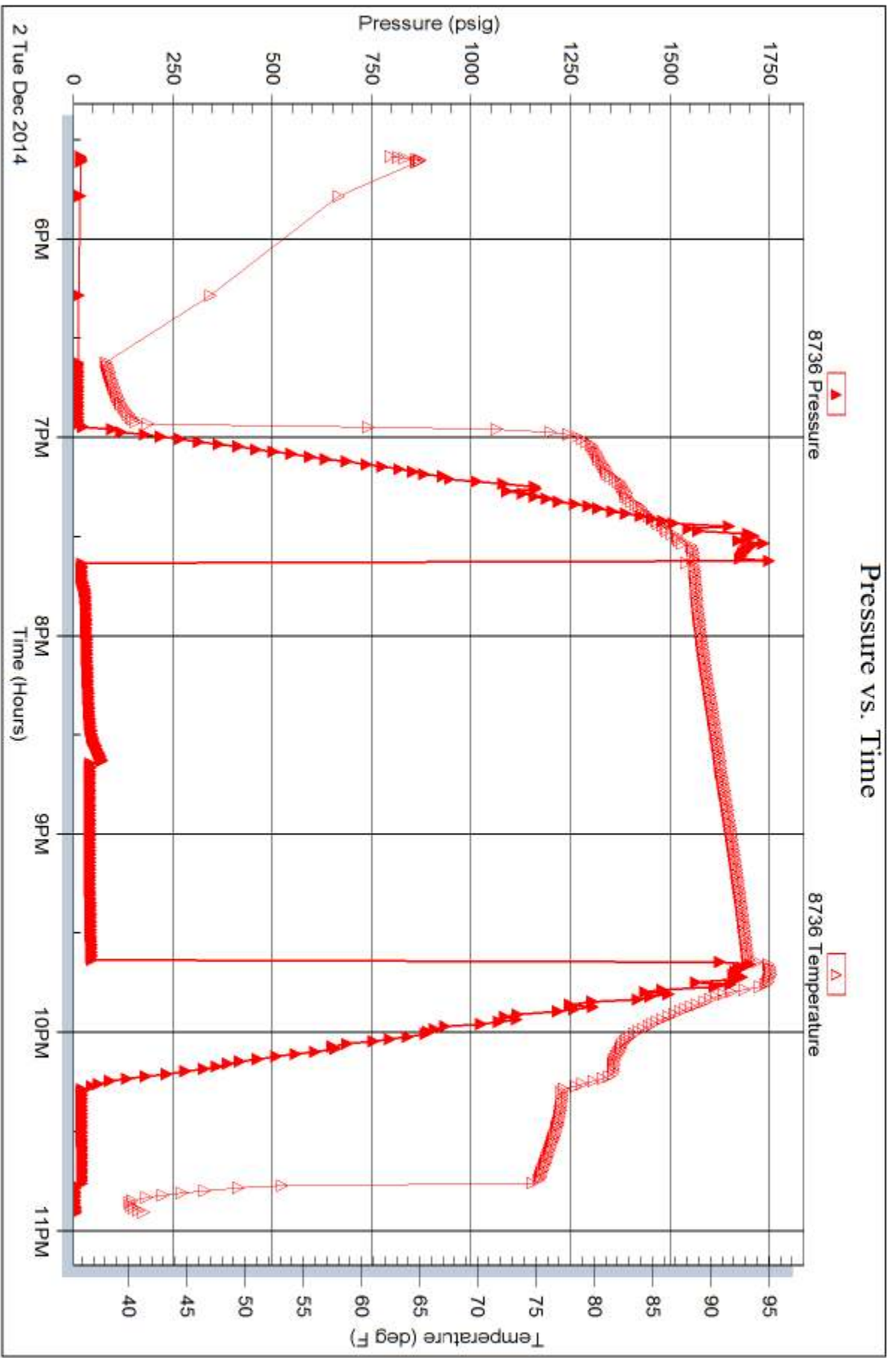


Serial #: 8736

Outside American Land & Energy LLC

Drilling #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62542

Printed: 2014, 12:05 @ 10:54:15



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

785-639-1270

## Test Ticket

NO. 62540

Well Name & No. Dreiling #1 Test No. 1 Date 12-1-14  
 Company American Land & Energy LLC Elevation 1956 KB 1950 GL  
 Address 7277 Tenby Way Castle Rock CO 80108  
 Co. Rep / Geo. Lyle Herman Rig Royal #2  
 Location: Sec. 24 Twp. 14 Rge. 17 Co. Ellis State KS

Interval Tested 3238-3293 Zone Tested KC" C-D"  
 Anchor Length 55 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.0  
 Top Packer Depth 3233 Drill Collars Run \_\_\_\_\_ Vis 52  
 Bottom Packer Depth 3238 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3293 Chlorides 8,000 ppm System LCM 17  
 Blow Description IF - 3/4 in blow  
ISF - No blow  
FF - weak surface blow  
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>05 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 15 BHT 89 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1614  Test 1150 T-On Location 10:45  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 11:40  
 (C) First Final Flow 20  Safety Joint \_\_\_\_\_ T-Open 14:00  
 (D) Initial Shut-In 166  Circ Sub \_\_\_\_\_ T-Pulled 16:00  
 (E) Second Initial Flow 21  Hourly Standby \_\_\_\_\_ T-Out 17:15  
 (F) Second Final Flow 24  Mileage 23RT 35.65 Comments \_\_\_\_\_  
 (G) Final Shut-In 80  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1574  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1185.65

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 30 Sub Total 0  
 Total 1185.65  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Bert Dickinson

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. 62541

Well Name & No. Drieling #1 Test No. 2 Date 12-1-14  
 Company American Land & Energy Elevation 1956 KB 1950 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Lyle Herrman Rig Royal #2  
 Location: Sec. 24 Twp. 14 Rge. 17 Co. Ellis State KS

Interval Tested 3285 - 3320 Zone Tested KC "E-F"  
 Anchor Length 35 Drill Pipe Run 3281 Mud Wt. 9.0  
 Top Packer Depth 3280 Drill Collars Run — Vis 52  
 Bottom Packer Depth 3285 Wt. Pipe Run — WL 8.0  
 Total Depth 3320 Chlorides 8,000 ppm System LCM 1#  
 Blow Description IF - 3in blow  
ISI - No blow  
FF - 2in blow  
FSL - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>55</u>	<u>SOCM</u>	<u>10</u>		<u>90</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

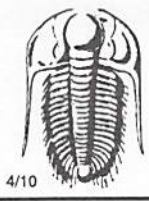
Rec Total 55 BHT 89 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1,644  Test 1150 T-On Location 22:40  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 22:55  
 (C) First Final Flow 25  Safety Joint \_\_\_\_\_ T-Open 00:47  
 (D) Initial Shut-In 710  Circ Sub \_\_\_\_\_ T-Pulled 3:02  
 (E) Second Initial Flow 30  Hourly Standby \_\_\_\_\_ T-Out 4:35  
 (F) Second Final Flow 35  Mileage 23rt 35.65 Comments \_\_\_\_\_  
 (G) Final Shut-In 716  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,586  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1185.65

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 45

Sub Total 1185.65

Approved By \_\_\_\_\_ Our Representative Bill Dickinson

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. 62542

Well Name & No. Drieling #1 Test No. 3 Date 12/2/14  
 Company American Land & Energy Elevation 1956 KB 1950 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Lyle Herrman Rig Royal #2  
 Location: Sec. 24 Twp. 14 Rge. 17 Co. Ellis State KS

Interval Tested 3448-3490 Zone Tested Arbuckle  
 Anchor Length 42 Drill Pipe Run 3444 Mud Wt. 9.2  
 Top Packer Depth 3443 Drill Collars Run — Vis 56  
 Bottom Packer Depth 3448 Wt. Pipe Run — WL 11.2  
 Total Depth 3490 Chlorides ~~12,000~~ ppm System LCM 1#  
 Blow Description IF - 1 in blow  
ISI - very weak surface blow died in 18 min  
FF - very weak surface blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>0.5 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 20 BHT 94 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1745  Test 1150 T-On Location 16:05  
 (B) First Initial Flow 16  Jars \_\_\_\_\_ T-Started 15:35  
 (C) First Final Flow 18  Safety Joint \_\_\_\_\_ T-Open 19:35  
 (D) Initial Shut-In 93  Circ Sub \_\_\_\_\_ T-Pulled 21:35  
 (E) Second Initial Flow 21  Hourly Standby \_\_\_\_\_ T-Out 22:53  
 (F) Second Final Flow 23  Mileage 23 rTX 2 Comments \_\_\_\_\_  
 (G) Final Shut-In 55  Sampler 35.65+35.65 loaded Tools  
 (H) Final Hydrostatic 1710  Straddle \_\_\_\_\_ 12/3/14  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Total 1221.30  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1221.30

Approved By \_\_\_\_\_ Our Representative Burt Johnson

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