



## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

**Deanna #1-35**

**35-20S-22W Ness,KS**

Start Date: 2018.02.12 @ 06:30:00

End Date: 2018.02.12 @ 13:17:00

Job Ticket #: 63546                      DST #: 1

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

Printed: 2018.02.14 @ 13:46:29



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Jason Alm

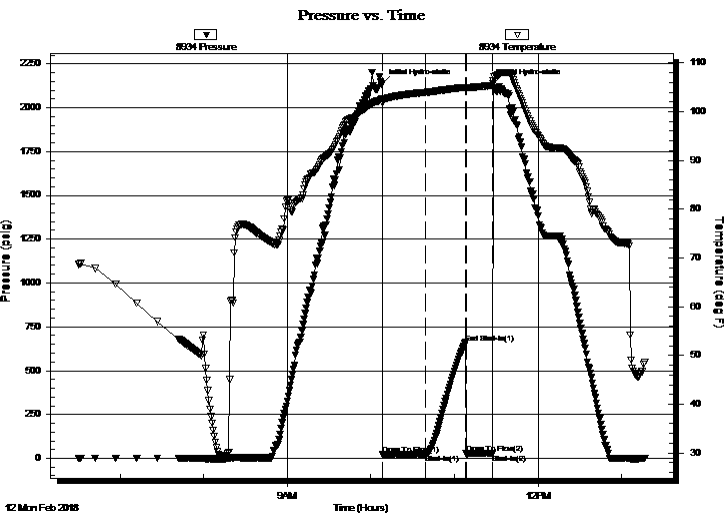
**35-20S-22W Ness,KS**  
**Deanna #1-35**  
 Job Ticket: 63546 **DST#: 1**  
 Test Start: 2018.02.12 @ 06:30:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:08:30  
 Time Test Ended: 13:17:00  
 Interval: **4260.00 ft (KB) To 4344.00 ft (KB) (TVD)**  
 Total Depth: 4344.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Spencer J. Staab  
 Unit No: 84  
 Reference Elevations: 2168.00 ft (KB)  
 2160.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8934 Inside**  
 Press@RunDepth: 25.02 psig @ 4264.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.02.12 End Date: 2018.02.12 Last Calib.: 2018.02.12  
 Start Time: 06:30:15 End Time: 13:17:00 Time On Btm: 2018.02.12 @ 10:08:15  
 Time Off Btm: 2018.02.12 @ 11:27:45

TEST COMMENT: 30-IF-Weak Blow ; Built to 1 1/2"  
 30-ISI-No Return  
 20-FF-Weak Surface Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2137.04	102.72	Initial Hydro-static
1	21.11	101.86	Open To Flow (1)
32	25.02	103.97	Shut-In(1)
60	659.37	105.02	End Shut-In(1)
60	26.22	104.76	Open To Flow (2)
79	25.29	105.40	Shut-In(2)
80	2135.62	106.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

## Gas Rates

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



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 Garden City KS 67846  
 ATTN: Jason Alm

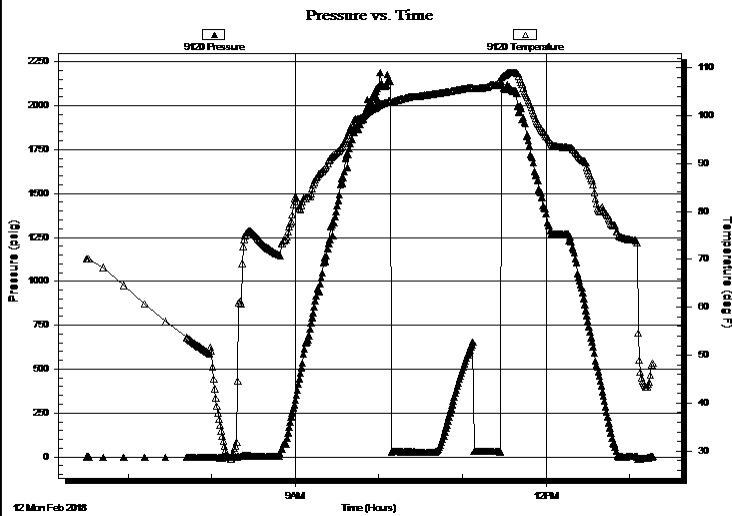
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 Tester: Spencer J. Staab  
 Unit No: 84  
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 2160.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 9120 Inside**  
 Press@RunDepth: psig @ 4264.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.02.12 End Date: 2018.02.12 Last Calib.: 2018.02.12  
 Start Time: 06:30:15 End Time: 13:17:00 Time On Btm:  
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TEST COMMENT: 30-IF-Weak Blow ; Built to 1 1/2"  
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## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%M	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.

**35-20S-22W Ness,KS**

PO Box 399  
Garden City KS 67846

**Deanna #1-35**

Job Ticket: 63546

**DST#: 1**

ATTN: Jason Alm

Test Start: 2018.02.12 @ 06:30:00

## Tool Information

Drill Pipe:	Length: 4218.00 ft	Diameter: 3.80 inches	Volume: 59.17 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4260.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4233.00	
Shut In Tool	5.00			4238.00	
Hydraulic tool	5.00			4243.00	
Jars	5.00			4248.00	
Safety Joint	3.00			4251.00	
Packer	5.00			4256.00	28.00 Bottom Of Top Packer
Packer	4.00			4260.00	
Stubb	1.00			4261.00	
Perforations	2.00			4263.00	
Change Over Sub	1.00			4264.00	
Recorder	0.00	9120	Inside	4264.00	
Recorder	0.00	8934	Inside	4264.00	
Drill Pipe	63.00			4327.00	
Change Over Sub	1.00			4328.00	
Perforations	12.00			4340.00	
Bullnose	4.00			4344.00	84.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>112.00</b>				



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**35-20S-22W Ness,KS**

PO Box 399  
Garden City KS 67846

**Deanna #1-35**

Job Ticket: 63546

**DST#: 1**

ATTN: Jason Alm

Test Start: 2018.02.12 @ 06:30:00

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

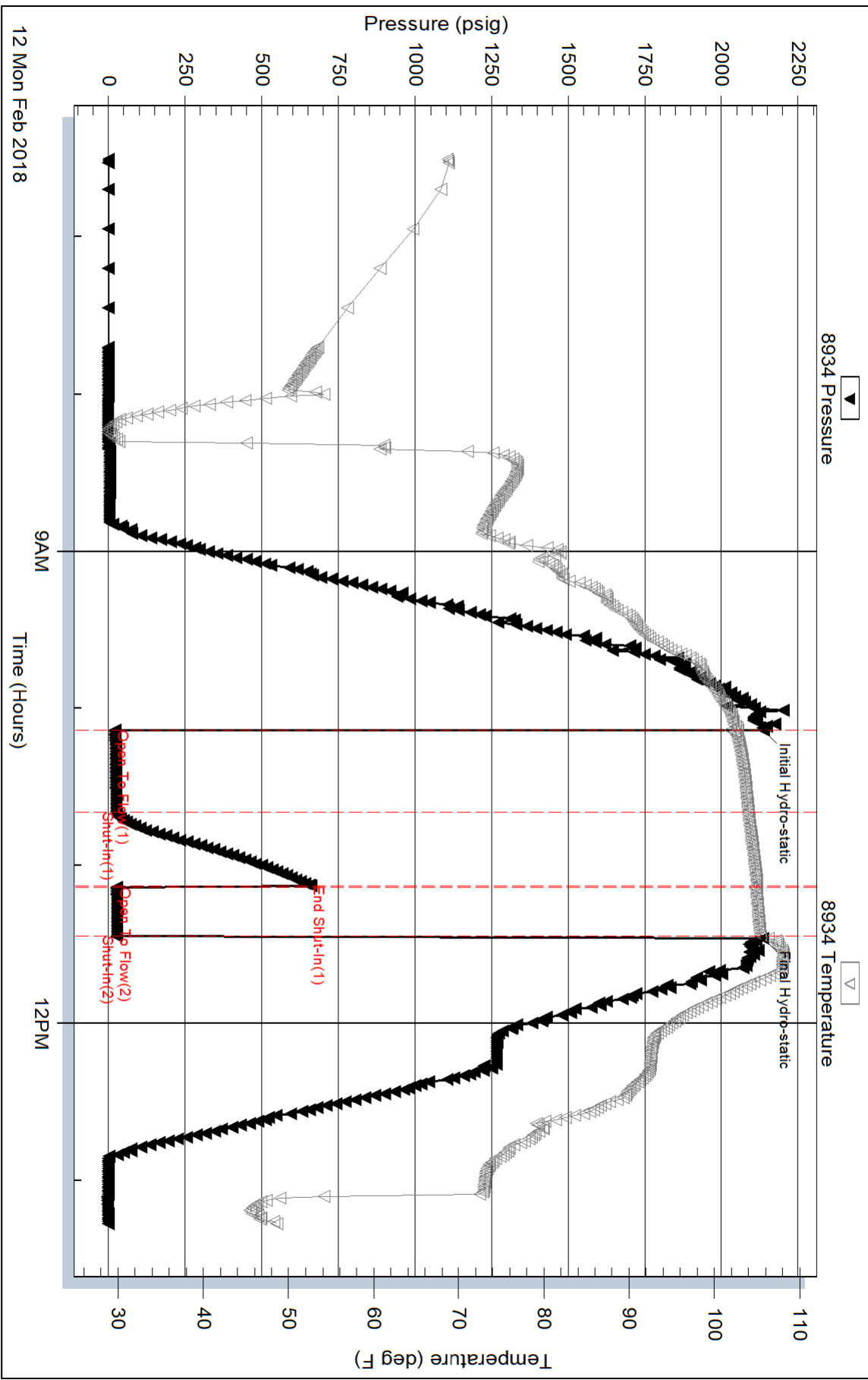
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

### Pressure vs. Time



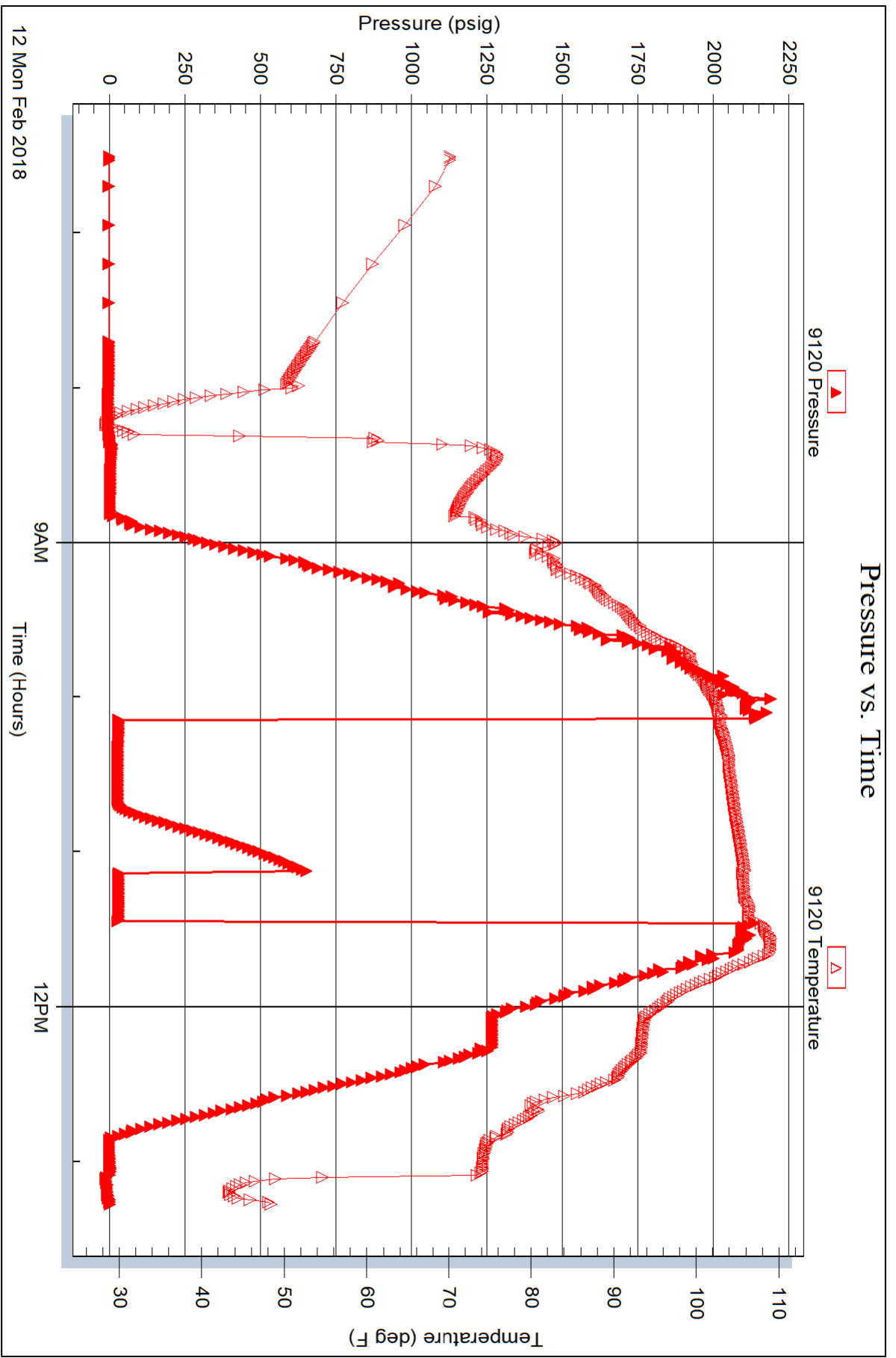
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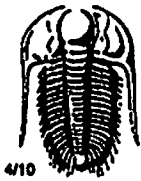
Inside

American Warrior, Inc.

Deanna #1-35

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63546

Well Name & No. Deanna # 1-35 Test No. 1 Date 02/12/2018  
 Company American Warrior Inc Elevation 2168 KB 2160 GL  
 Address PO BOX 399 Garden City Ks 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery #4  
 Location: Sec. 35 Twp 20s Rge. 22w Co. Ness State Ks

Interval Tested 4260' - 4344' Zone Tested Mississippi  
 Anchor Length 84' Drill Pipe Run 4218' Mud Wt. 9.45  
 Top Packer Depth 4255' Drill Collars Run 31' Vis 48  
 Bottom Packer Depth 4260' Wt. Pipe Run - WL 10.4  
 Total Depth 4344' Chlorides 8,600 ppm System LCM 1#

Blow Description 77-Weak Blow; Buill to 1 1/2"  
ISD - No Return  
77- Weak Surface Blow  
7SD - - -

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

Rec Total 10' BHT 105° Gravity - API RW - @ - ° F Chlorides - ppm  
 (A) Initial Hydrostatic 2137  Test 1150 T-On Location 05:52  
 (B) First Initial Flow 21  Jars 250 T-Started 06:30  
 (C) First Final Flow 25  Safety Joint 75 T-Open 10:07  
 (D) Initial Shut-In 659  Circ Sub \_\_\_\_\_ T-Pulled 11:27  
 (E) Second Initial Flow 26  Hourly Standby \_\_\_\_\_ T-Out 13:15  
 (F) Second Final Flow \_\_\_\_\_  Mileage 134 RT 134 Comments graded tools @ 17:40  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2135  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 20  
 Final Shut-In -  
 Sub Total 1609  
 Total 1609  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Spencer J. Faust Thanks!  
 Trilobite Testing Inc. shall not be liable for damaged or 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.

785-259-0056