



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Icn**

PO Box 399  
Garden City, KS 67846

ATTN: Keven Timson

**Clark #4-2**

**2-25s-31w Finney,KS**

Start Date: 2014.04.30 @ 19:52:25

End Date: 2014.05.01 @ 02:53:25

Job Ticket #: 55747                      DST #: 1

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

Printed: 2014.05.02 @ 13:31:06



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Ln  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Keven Timson

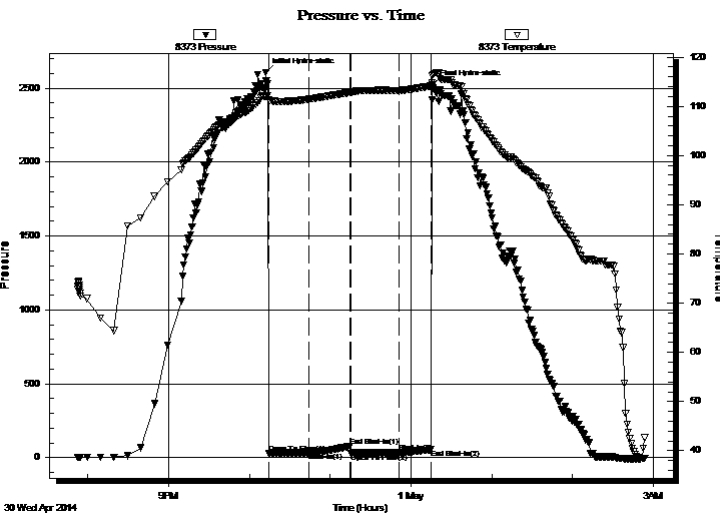
**2-25s-31w Finney,KS**  
**Clark #4-2**  
 Job Ticket: 55747 **DST#: 1**  
 Test Start: 2014.04.30 @ 19:52:25

## GENERAL INFORMATION:

Formation: **Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:14:25  
 Time Test Ended: 02:53:25  
 Interval: **4815.00 ft (KB) To 4863.00 ft (KB) (TVD)**  
 Total Depth: 4863.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2850.00 ft (KB)  
 2839.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8373 Inside**  
 Press@RunDepth: 33.82 psig @ 4816.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.04.30 End Date: 2014.05.01 Last Calib.: 2014.05.01  
 Start Time: 19:52:30 End Time: 02:53:24 Time On Btm: 2014.04.30 @ 22:11:55  
 Time Off Btm: 2014.05.01 @ 00:15:55

TEST COMMENT: IF: 1/4" blow died to a surface blow.  
 IS: No return.  
 FF: 1/4" blow built to 2"  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2607.37	111.95	Initial Hydro-static
3	30.97	111.32	Open To Flow (1)
33	33.45	111.46	Shut-In(1)
63	78.16	112.78	End Shut-In(1)
64	29.82	112.74	Open To Flow (2)
99	33.82	113.19	Shut-In(2)
123	54.79	114.11	End Shut-In(2)
124	2524.78	116.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud oil spots 100%m	0.21

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Keven Timson

**2-25s-31w Finney,KS**  
**Clark #4-2**  
Job Ticket: 55747      **DST#: 1**  
Test Start: 2014.04.30 @ 19:52:25

**Tool Information**

Drill Pipe:	Length: 4807.00 ft	Diameter: 3.80 inches	Volume: 67.43 bbl	Tool Weight:	1500.00 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:	75000.00 lb
			<u>Total Volume: 67.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4815.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	48.00 ft				
Tool Length:	76.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Stubb	1.00			4788.00	
Shut In Tool	5.00			4793.00	
Hydraulic tool	5.00			4798.00	
Jars	5.00			4803.00	
Safety Joint	3.00			4806.00	
Packer	5.00			4811.00	28.00      Bottom Of Top Packer
Packer	4.00			4815.00	
Stubb	1.00			4816.00	
Recorder	0.00	8373	Inside	4816.00	
Recorder	0.00	8356	Outside	4816.00	
Perforations	8.00			4824.00	
Change Over Sub	1.00			4825.00	
Drill Pipe	32.00			4857.00	
Change Over Sub	1.00			4858.00	
Bullnose	5.00			4863.00	48.00      Bottom Packers & Anchor

**Total Tool Length: 76.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Icn  
PO Box 399  
Garden City, KS 67846  
ATTN: Keven Timson

**2-25s-31w Finney,KS**  
**Clark #4-2**  
Job Ticket: 55747      **DST#: 1**  
Test Start: 2014.04.30 @ 19:52:25

## Mud and Cushion Information

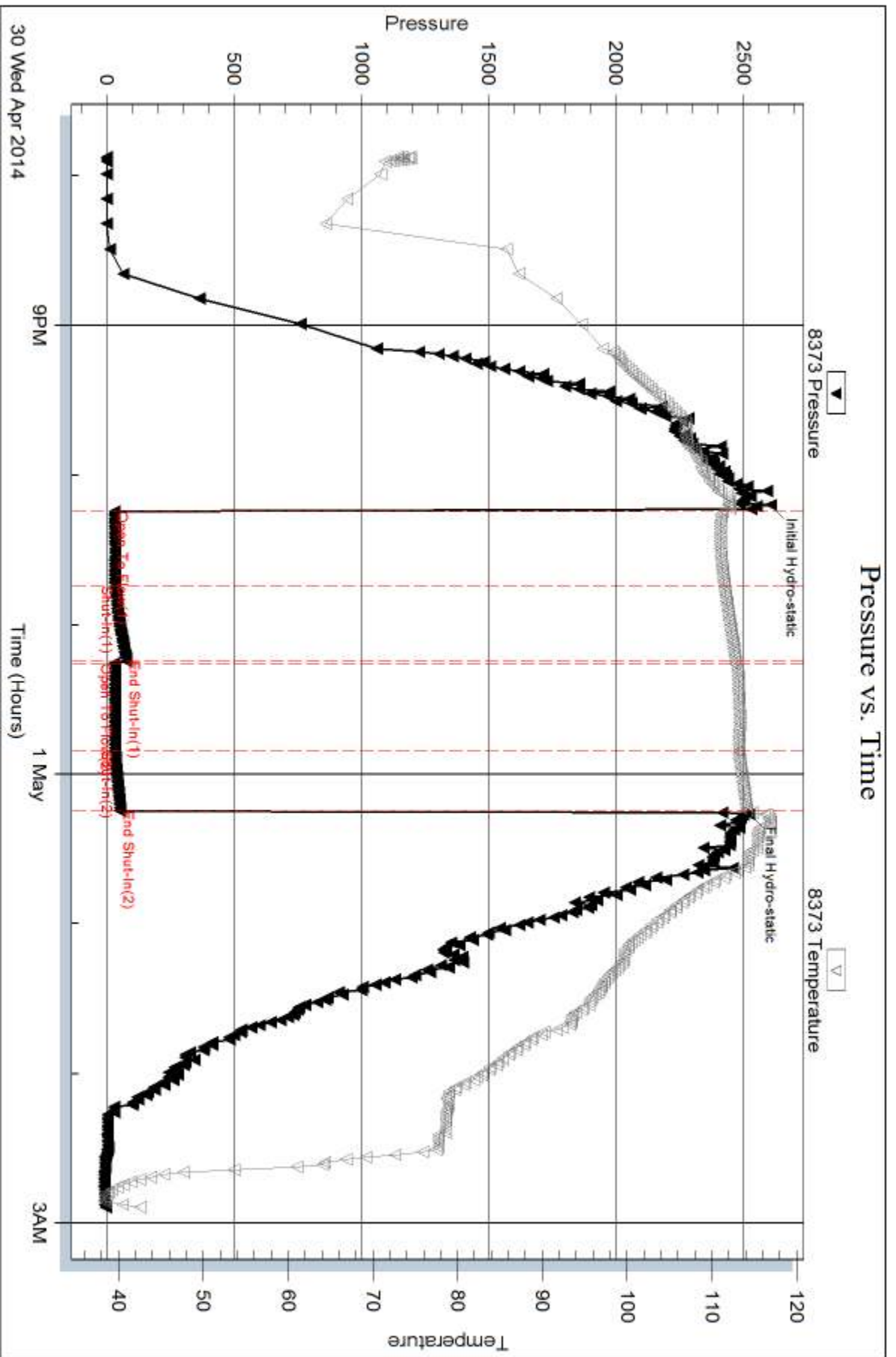
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 5100.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud oil spots 100%m	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:

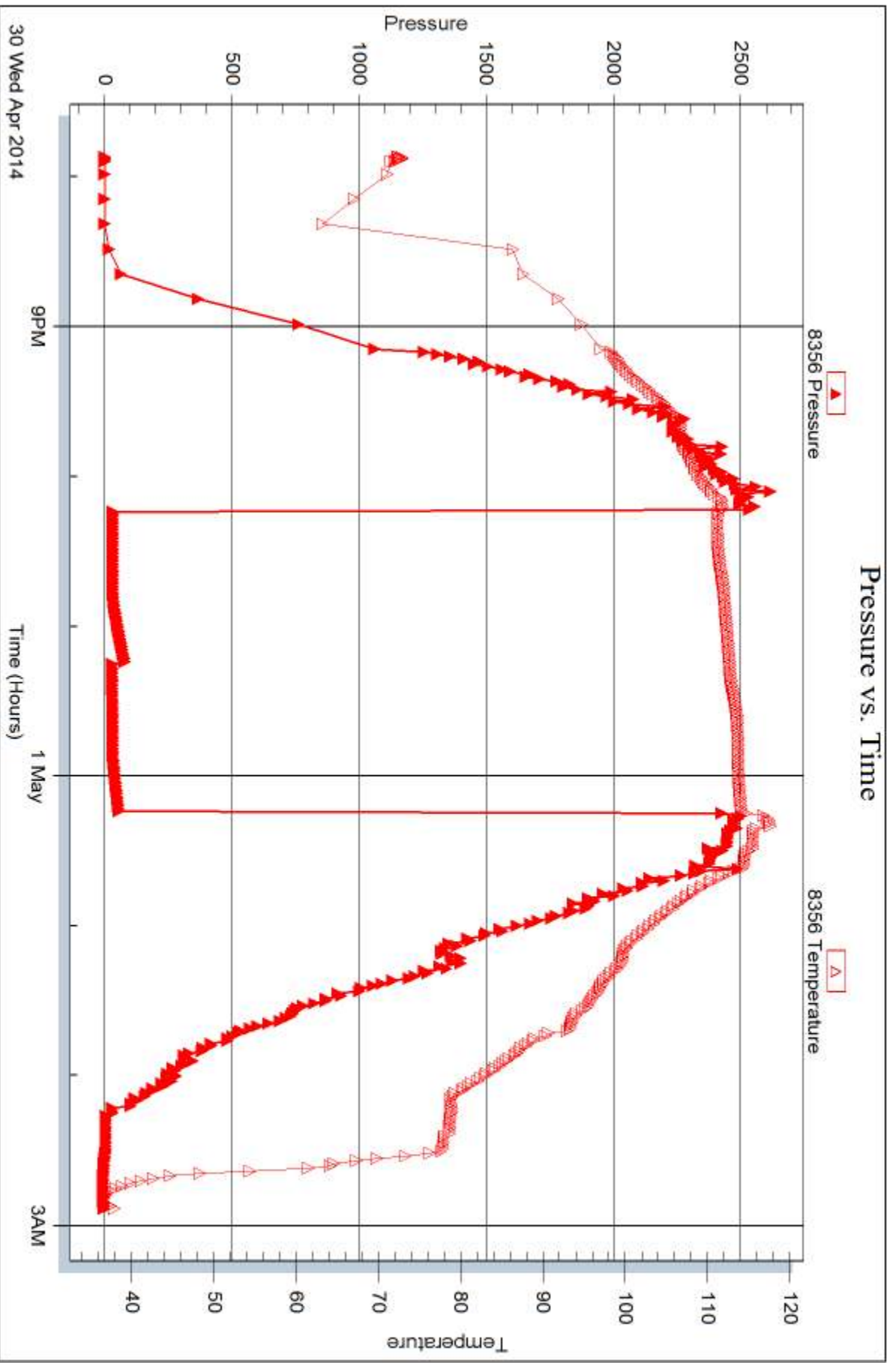


Serial #: 8356

Outside American Warrior Icn

Clark #4-2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55747

Printed: 2014.05.02 @ 13:31:07



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Keven Timson

### **Clark #4-2**

### **2-25s-31w Finney,KS**

Start Date: 2014.05.01 @ 16:05:00

End Date: 2014.05.02 @ 00:36:30

Job Ticket #: 55748                      DST #: 2

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

Printed: 2014.05.02 @ 13:30:34





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Keven Timson

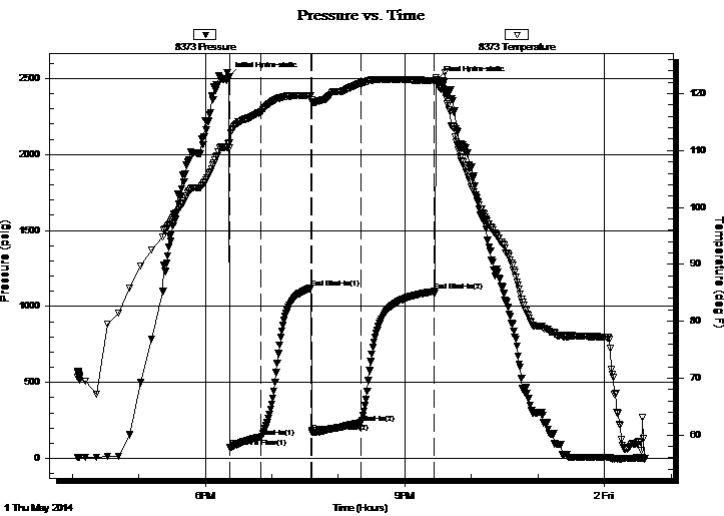
**2-25s-31w Finney,KS**  
**Clark #4-2**  
 Job Ticket: 55748 **DST#: 2**  
 Test Start: 2014.05.01 @ 16:05:00

## GENERAL INFORMATION:

Formation: **St. Louis**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:22:00  
 Time Test Ended: 00:36:30  
 Interval: **4869.00 ft (KB) To 4926.00 ft (KB) (TVD)**  
 Total Depth: 4926.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2850.00 ft (KB)  
 2839.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8373** **Inside**  
 Press@RunDepth: 234.02 psig @ 4870.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.05.01 End Date: 2014.05.02 Last Calib.: 2014.05.02  
 Start Time: 16:05:05 End Time: 00:36:29 Time On Btm: 2014.05.01 @ 18:21:30  
 Time Off Btm: 2014.05.01 @ 21:28:30

**TEST COMMENT:** IF: BOB @ 2 1/2 min.  
 IS: 1/4" return. receded to surface.  
 FF: BOB@ 1 min, Gas to surface @ 20 min.  
 FS: BOB return. Receded to 5 inches.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2509.87	111.29	Initial Hydro-static
1	70.13	110.56	Open To Flow (1)
29	140.23	116.77	Shut-In(1)
74	1119.92	119.61	End Shut-In(1)
75	171.35	118.52	Open To Flow (2)
119	234.02	121.80	Shut-In(2)
185	1099.11	122.29	End Shut-In(2)
187	2487.55	122.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
185.00	gmco 30g 20m 50o	2.60
260.00	gmco 50g 15m 35o	3.65
65.00	gocm 10g 10o 80m	0.91
0.00	gas to surface on final flow	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc  
PO Box 399  
Garden City, KS 67846  
ATTN: Keven Timson

**2-25s-31w Finney,KS**  
**Clark #4-2**  
Job Ticket: 55748      **DST#: 2**  
Test Start: 2014.05.01 @ 16:05:00

**Tool Information**

Drill Pipe:	Length: 4868.00 ft	Diameter: 3.80 inches	Volume: 68.29 bbl	Tool Weight: 1500.00 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: 80000.00 lb
			<u>Total Volume: 68.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4869.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Stubb	1.00			4842.00	
Shut In Tool	5.00			4847.00	
Hydraulic tool	5.00			4852.00	
Jars	5.00			4857.00	
Safety Joint	3.00			4860.00	
Packer	5.00			4865.00	28.00      Bottom Of Top Packer
Packer	4.00			4869.00	
Stubb	1.00			4870.00	
Recorder	0.00	8373	Inside	4870.00	
Recorder	0.00	8356	Outside	4870.00	
Perforations	17.00			4887.00	
Change Over Sub	1.00			4888.00	
Drill Pipe	32.00			4920.00	
Change Over Sub	1.00			4921.00	
Bullnose	5.00			4926.00	57.00      Bottom Packers & Anchor

**Total Tool Length: 85.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Icn  
PO Box 399  
Garden City, KS 67846  
ATTN: Keven Timson

**2-25s-31w Finney,KS**  
**Clark #4-2**  
Job Ticket: 55748      **DST#: 2**  
Test Start: 2014.05.01 @ 16:05:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4900.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	gmco 30g 20m 50o	2.595
260.00	gmco 50g 15m 35o	3.647
65.00	gocm 10g 10o 80m	0.912
0.00	gas to surface on final flow	0.000

Total Length: 510.00 ft      Total Volume: 7.154 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

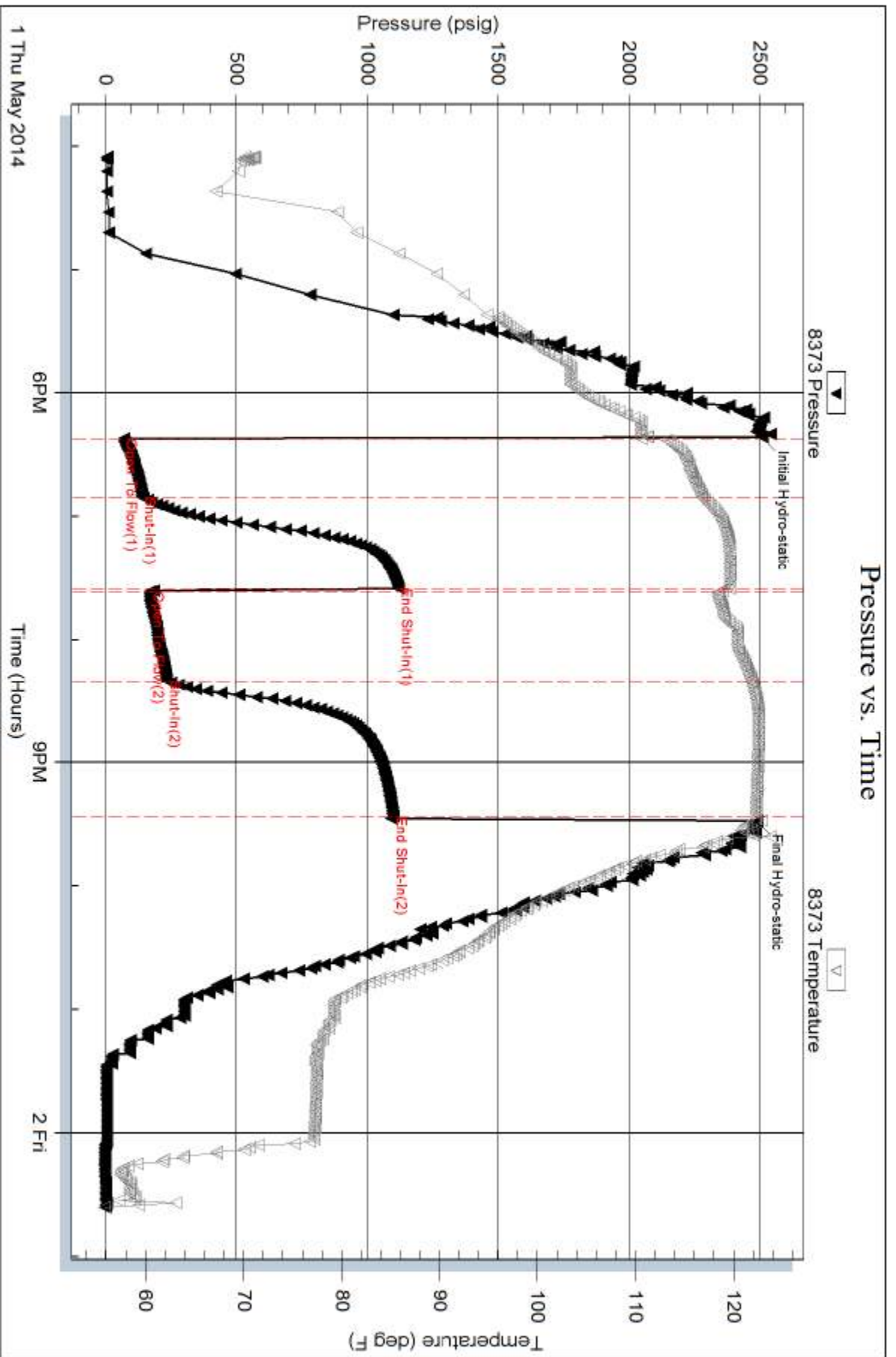
Serial #: 8373

Inside

American Warrior Icn

Clark #4-2

DST Test Number: 2

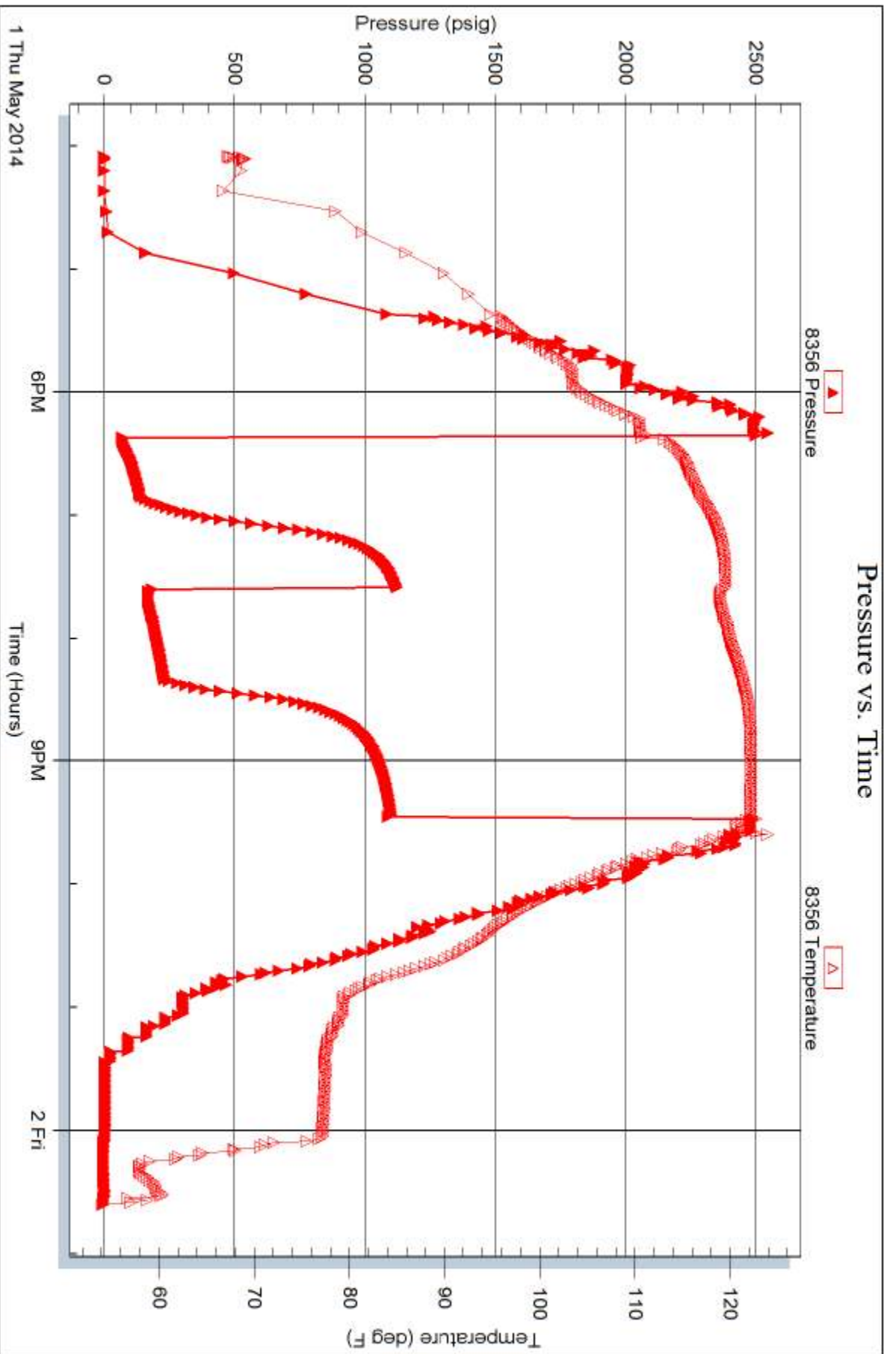


Serial #: 8356

Outside American Warrior Icn

Clark #4-2

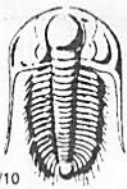
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 55748

Printed: 2014.05.02 @ 13:30:35



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55747

4/10

Well Name & No. Clark # 4-2 Test No. 1 Date 4-30-14  
 Company American Warrior Elevation 2850 KB 2859 GL  
 Address 3118 Cummings Rd Garden city, KS 67846  
 Co. Rep / Geo. Kevin Tomson Rig Duke #10  
 Location: Sec. 2 Twp. 25 Rge. 31 Co. Finney State KS

Interval Tested 4815 4863 Zone Tested Morrow  
 Anchor Length 48 Drill Pipe Run 4807 Mud Wt. 9.7  
 Top Packer Depth 4810 Drill Collars Run — Vis 51  
 Bottom Packer Depth 4815 Wt. Pipe Run — WL 9.2  
 Total Depth 4863 Chlorides 5100 ppm System LCM 3

Blow Description IF: 1/4 blow died to & surface blow,  
IS: No return.  
FF: 1/4 blow built to 2.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>mud oil spots</u>			<u>100</u>	
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 114 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2607</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>19:00</u>
(B) First Initial Flow	<u>30</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>19:52</u>
(C) First Final Flow	<u>33</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>22:12</u>
(D) Initial Shut-In	<u>78</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>00:12</u>
(E) Second Initial Flow	<u>29</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>2:50</u>
(F) Second Final Flow	<u>33</u>	<input checked="" type="checkbox"/> Mileage	<u>106 - 164.30</u>	Comments	
(G) Final Shut-In	<u>54</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2524</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

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

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1739.30

MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_

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.

Brandon Tutley #60



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55748

Well Name & No. Clark #4-2 Test No. 2 Date 5/1/14  
 Company American Warrior Inc Elevation 2850 KB 2839 GL  
 Address 3118 Cummings Rd Garden City, Ks 67846  
 Co. Rep / Geo. Kevin Timson Rig Duke 10  
 Location: Sec. 2 Twp. 25s Rge. 31w Co. Finney State Ks

Interval Tested 4869 4926 Zone Tested St Louis  
 Anchor Length 57 Drill Pipe Run 4868 Mud Wt. 9.6  
 Top Packer Depth 4864 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 4869 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4926 Chlorides 4900 ppm System LCM 2"

Blow Description IF BOB @ 2 1/2 min.  
ISI 1/4 return receded to surface.  
FF BOB @ 1 min Gas to surface @ 20 min  
FSI BOB - receded to 5"

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>60cm</u>	<u>10</u>	<u>10</u>	<u>80</u>	<u>0</u>
<u>260</u>	<u>6mcd</u>	<u>50</u>	<u>35</u>	<u>15</u>	<u>0</u>
<u>185</u>	<u>6mcd</u>	<u>30</u>	<u>50</u>	<u>20</u>	<u>0</u>
Rec	Feet of <u>Gas to surface</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 510 BHT 122 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 2510  Test 1250 T-On Location 1545 5/1  
 (B) First Initial Flow 70  Jars 250 T-Started 1605  
 (C) First Final Flow 140  Safety Joint 75 T-Open 1822  
 (D) Initial Shut-In 1120  Circ Sub 4/c T-Pulled 2122  
 (E) Second Initial Flow 171  Hourly Standby \_\_\_\_\_ T-Out 0037 5/2  
 (F) Second Final Flow 234  Mileage 106 RT 164.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 1099  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2487  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1739.30  
 Final Shut-In 60  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1739.30

Approved By \_\_\_\_\_ 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.

WLT #69