



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Congdon #10-28**

### **28-23s-32w Finney,KS**

Start Date: 2013.12.29 @ 17:35:35

End Date: 2013.12.30 @ 01:35:50

Job Ticket #: 56603                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.07 @ 13:43:44



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**28-23s-32w Finney, KS**  
**Congdon #10-28**  
 Job Ticket: 56603 **DST#: 1**  
 Test Start: 2013.12.29 @ 17:35:35

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:44:50  
 Time Test Ended: 01:35:50  
 Interval: **4483.00 ft (KB) To 4507.00 ft (KB) (TVD)**  
 Total Depth: 4507.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 2858.00 ft (KB)  
 2846.00 ft (CF)  
 KB to GR/CF: 12.00 ft

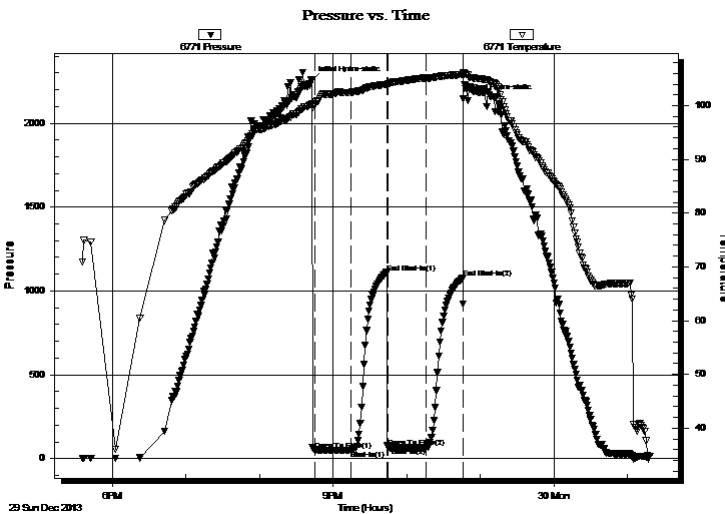
## Serial #: 6771

Inside

Press@RunDepth: 65.91 psig @ 4484.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.12.29 End Date: 2013.12.30 Last Calib.: 2013.12.30  
 Start Time: 17:35:35 End Time: 01:18:50 Time On Btm: 2013.12.29 @ 20:42:35  
 Time Off Btm: 2013.12.29 @ 22:46:20

TEST COMMENT: 3 1/2" blow  
 No return  
 3 1/2" blow  
 No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.92	100.24	Initial Hydro-static
3	49.09	100.06	Open To Flow (1)
32	50.94	102.47	Shut-In(1)
61	1110.41	103.95	End Shut-In(1)
62	70.31	103.94	Open To Flow (2)
93	65.91	105.11	Shut-In(2)
124	1079.02	105.75	End Shut-In(2)
124	2148.19	106.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	g m w /oil spots 10g 90m	0.63
0.00	195' very weak gas in pipe	0.00

## 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: Kevin Timson

**28-23s-32w Finney,KS**  
**Congdon #10-28**  
Job Ticket: 56603      **DST#: 1**  
Test Start: 2013.12.29 @ 17:35:35

**Tool Information**

Drill Pipe:	Length: 4474.00 ft	Diameter: 3.80 inches	Volume: 62.76 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: 62.76 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	4483.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 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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Change Over Sub	1.00			4456.00	
Shut In Tool	5.00			4461.00	
Hydraulic tool	5.00			4466.00	
Jars	5.00			4471.00	
Safety Joint	3.00			4474.00	
Packer	5.00			4479.00	28.00      Bottom Of Top Packer
Packer	4.00			4483.00	
Stubb	1.00			4484.00	
Recorder	0.00	6771	Inside	4484.00	
Recorder	0.00	8844	Outside	4484.00	
Perforations	18.00			4502.00	
Bullnose	5.00			4507.00	24.00      Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**28-23s-32w Finney,KS**  
**Congdon #10-28**  
Job Ticket: 56603      **DST#: 1**  
Test Start: 2013.12.29 @ 17:35:35

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.95 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	g m w /oil spots 10g 90m	0.631
0.00	195' very weak gas in pipe	0.000

Total Length: 45.00 ft      Total Volume: 0.631 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

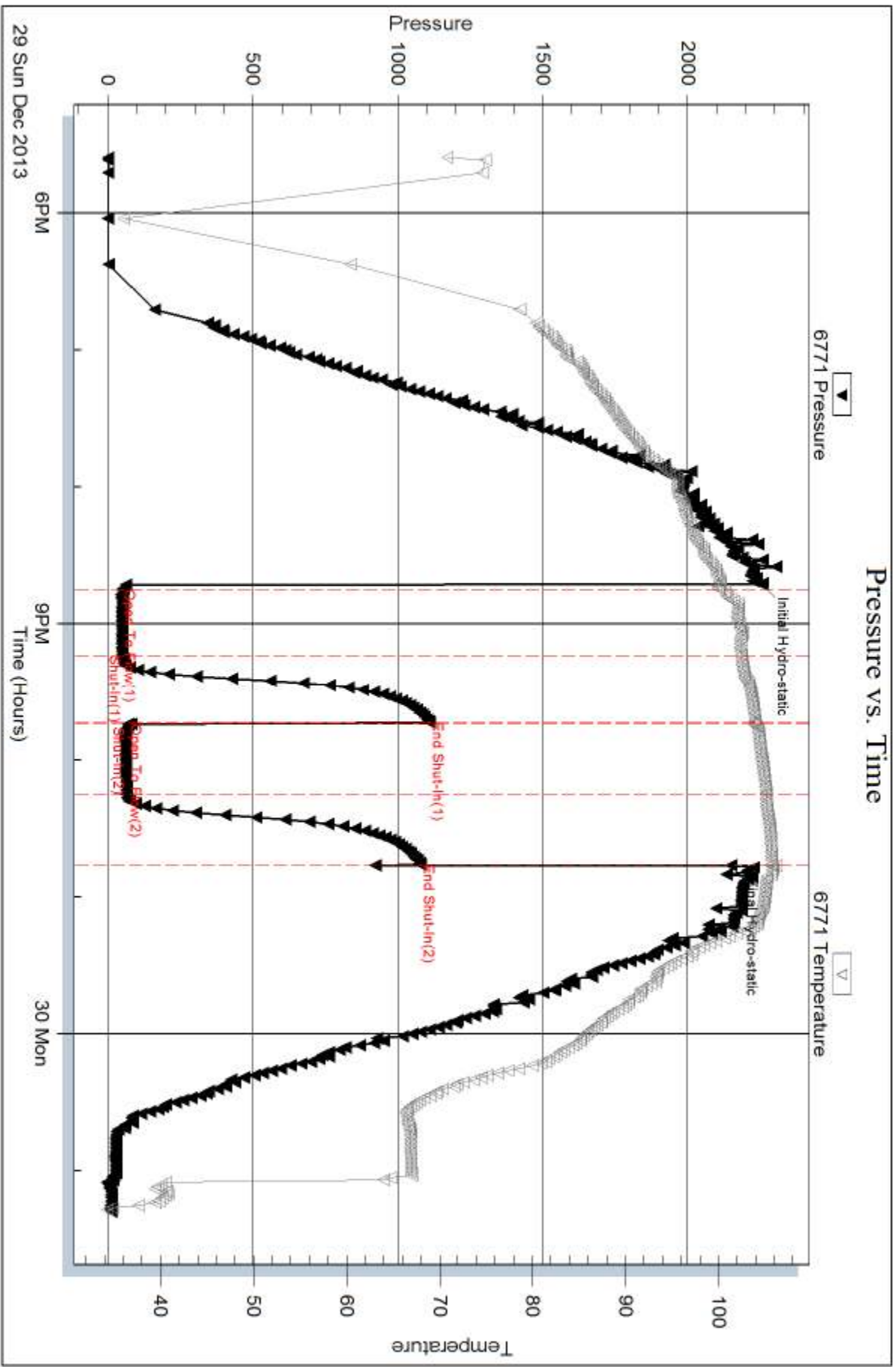
Serial #: 6771

Inside

American Warrior Inc

Congdon #10-28

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56603

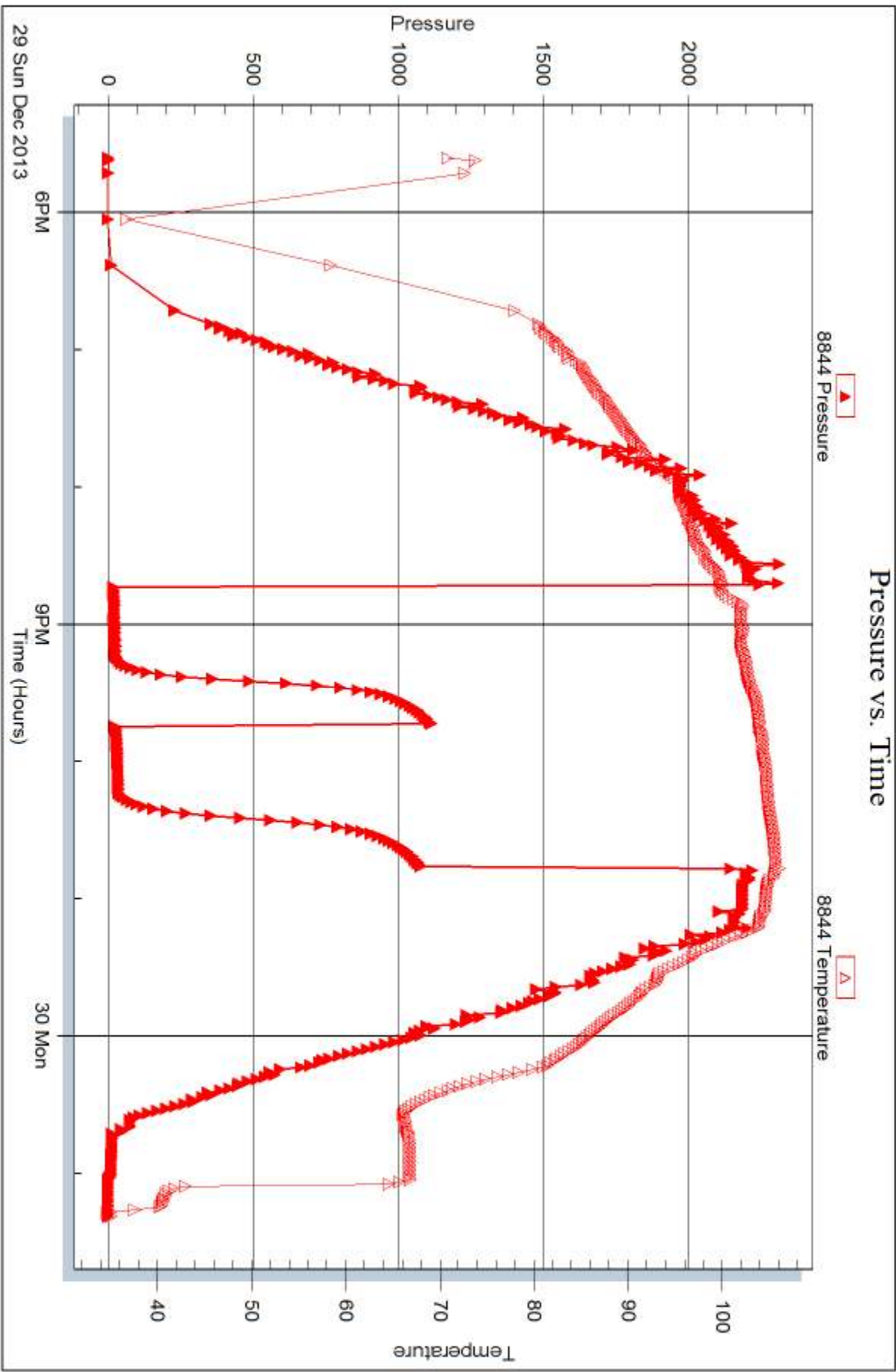
Printed: 2014.01.07 @ 13:43:46

Serial #: 8844

Outside American Warrior Inc

Congdon #10-28

DST Test Number: 1



TriCoble Testing, Inc

Ref. No: 56603

Printed: 2014.01.07 @ 13:43:47



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City, KS 67846

ATTN: Kevin Timson

### **Congdon #10-28**

#### **28-23s-32w Finney,KS**

Start Date: 2013.12.31 @ 04:30:00

End Date: 2013.12.31 @ 15:36:15

Job Ticket #: 56677                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.01.07 @ 13:44:21





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**28-23s-32w Finney, KS**  
**Congdon #10-28**  
 Job Ticket: 56677 **DST#: 2**  
 Test Start: 2013.12.31 @ 04:30:00

## GENERAL INFORMATION:

Formation: **marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:30:00  
 Time Test Ended: 15:36:15  
 Interval: **4642.00 ft (KB) To 4720.00 ft (KB) (TVD)**  
 Total Depth: 4507.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bob Hamel  
 Unit No: 55  
 Reference Elevations: 2858.00 ft (KB)  
 2846.00 ft (CF)  
 KB to GR/CF: 12.00 ft

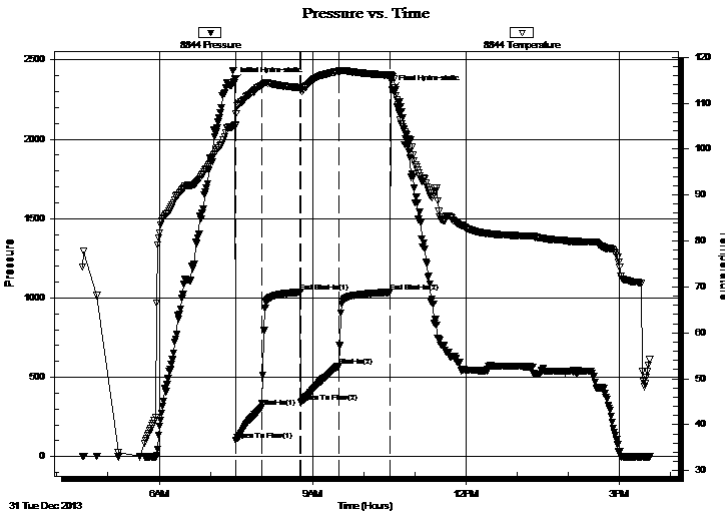
## Serial #: 8844

**Outside**

Press@RunDepth: 573.66 psig @ 4706.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.12.31 End Date: 2013.12.31 Last Calib.: 1899.12.30  
 Start Time: 04:30:15 End Time: 15:36:15 Time On Btm: 2013.12.31 @ 07:27:45  
 Time Off Btm: 2013.12.31 @ 10:33:15

TEST COMMENT: I.F. - 30 - BOB in 3 min  
 I.S.I. - 45 - BOB in 20 min  
 F.F. - 45 - BOB in 4 min  
 F.S.I. - 60 - BOB in 8 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2362.19	105.13	Initial Hydro-static
3	102.70	105.16	Open To Flow (1)
33	312.06	113.83	Shut-In(1)
78	1036.84	113.38	End Shut-In(1)
79	340.61	112.76	Open To Flow (2)
124	573.66	116.89	Shut-In(2)
183	1036.00	116.06	End Shut-In(2)
186	2310.10	115.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1638.00	Reversed out	22.98
0.00	60 min M,C,G,O, 10% mud 10% gas 80% oil	0.00
0.00	45 min S,M,C,G,O, 5% mud 10% gas 85% oil	0.00
0.00	30min. mud 100% (w/few oil specs)	0.00
0.00	2520' GIP	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: Kevin Timson

**28-23s-32w Finney,KS**  
**Congdon #10-28**  
Job Ticket: 56677      **DST#: 2**  
Test Start: 2013.12.31 @ 04:30:00

**Tool Information**

Drill Pipe:	Length: 4626.00 ft	Diameter: 3.80 inches	Volume: 64.89 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: 60000.00 lb
			<u>Total Volume: 64.89 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4642.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	107.00 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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Change Over Sub	1.00			4615.00	
Shut In Tool	5.00			4620.00	
Hydraulic tool	5.00			4625.00	
Jars	5.00			4630.00	
Safety Joint	3.00			4633.00	
Packer	5.00			4638.00	28.00      Bottom Of Top Packer
Packer	4.00			4642.00	
Stubb	1.00			4643.00	
Change Over Sub	1.00			4644.00	
Drill Pipe	61.00			4705.00	
Change Over Sub	1.00			4706.00	
Recorder	0.00	6771	Inside	4706.00	
Recorder	0.00	8844	Outside	4706.00	
Perforations	10.00			4716.00	
Bullnose	5.00			4721.00	79.00      Bottom Packers & Anchor

**Total Tool Length: 107.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**28-23s-32w Finney,KS**  
**Congdon #10-28**  
Job Ticket: 56677      **DST#: 2**  
Test Start: 2013.12.31 @ 04:30:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 33.2 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.95 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3300.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1638.00	Reversed out	22.977
0.00	60 min M,C,G,O, 10% mud 10% gas 80% oil	0.000
0.00	45 min S,M,C,G,O, 5% mud 10% gas 85% oil	0.000
0.00	30min. mud 100% (w/few oil specs)	0.000
0.00	2520' GIP	0.000

Total Length: 1638.00 ft      Total Volume: 22.977 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

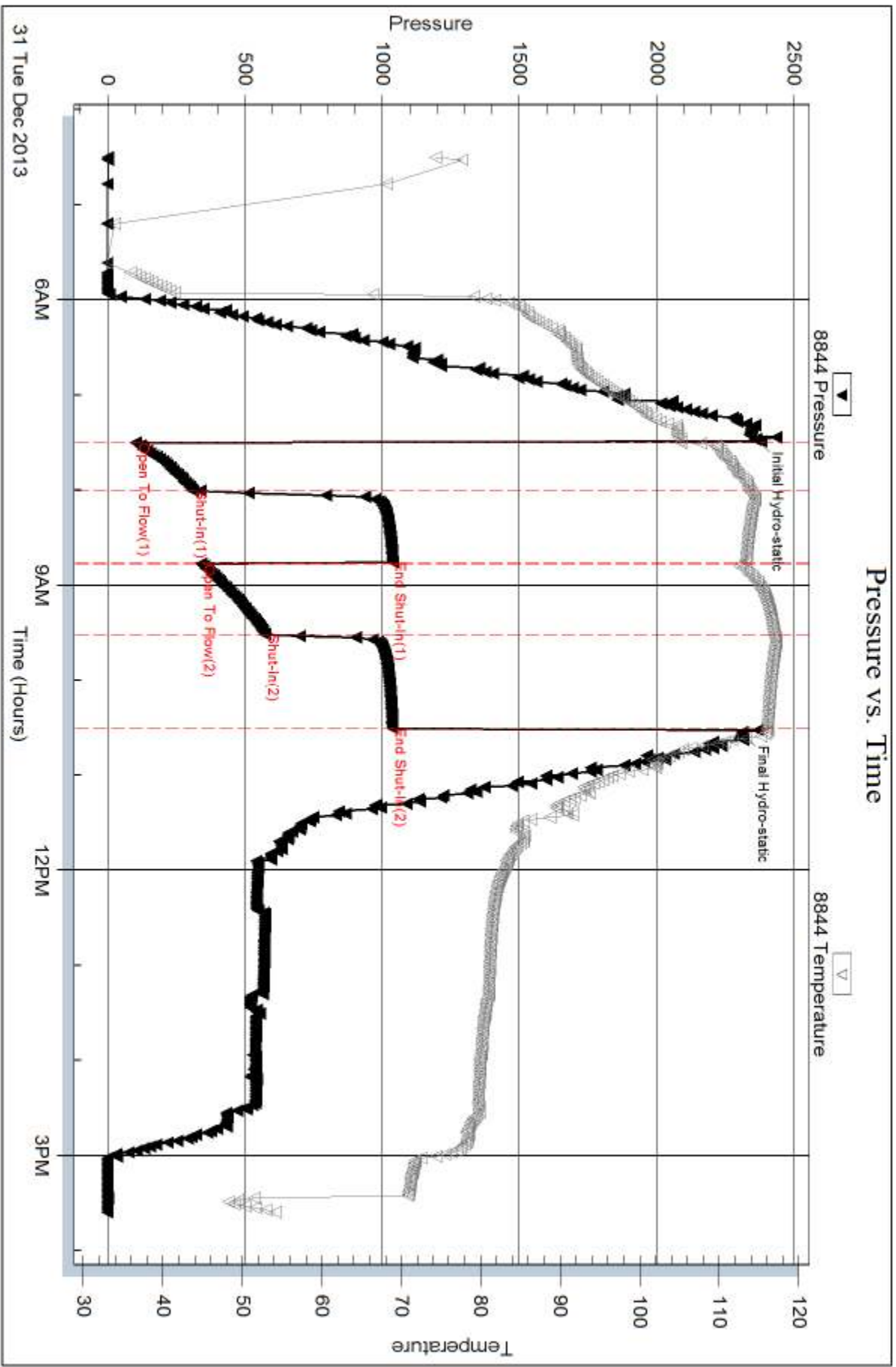
Recovery Comments: 33.2 API @ 60 DEG.  
no w ater

Serial #: 8844

Outside American Warrior Inc

Congdon #10-28

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56677

Printed: 2014.01.07 @ 13:44:24

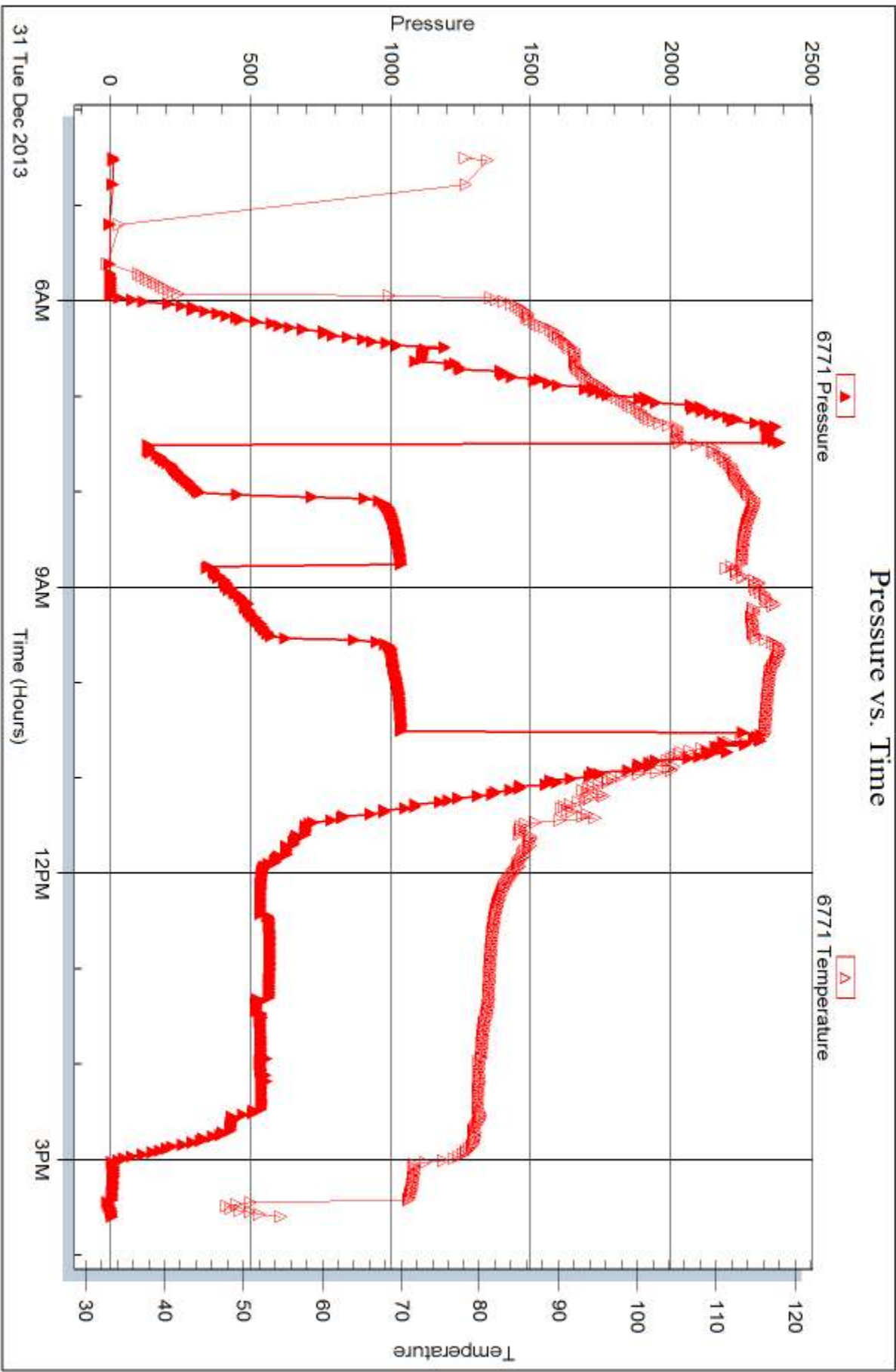
Serial #: 6771

Inside

American Warrior Inc

Congdon #10-28

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56677

Printed: 2014.01.07 @ 13:44:24



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **56603**

Well Name & No. Congdon #10-28 Test No. #1 Date 12/30/13  
 Company American Warrior Inc. Elevation 2858 KB 2846 GL  
 Address P.O. Box 399, Garden City, Ks 67840  
 Co. Rep / Geo. Kevin Tomson Rig Duke #1  
 Location: Sec. 28 Twp. 23.5 Rge. 32w Co. Finney State Ks

Interval Tested 4483 4507 Zone Tested LAWNCE  
 Anchor Length 24 Drill Pipe Run 4474 Mud Wt. 9.3  
 Top Packer Depth 4478 Drill Collars Run — Vis 57  
 Bottom Packer Depth 4483 Wt. Pipe Run — WL 9.0  
 Total Depth 4507 Chlorides 3200 ppm System LCM #2  
 Blow Description 3 1/2" in blow  
No return  
3 1/2" in blow  
No return

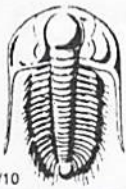
Rec	Feet of	%gas	%oil	%water	%mud
<u>45'</u>	<u>gm w/ oil spots</u>	<u>10</u>	<u>spots</u>	<u>90</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>(195' very wet &amp; low in pipe)</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45' BHT 106° Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2253  Test 1250 T-On Location 15:40  
 (B) First Initial Flow 49  Jars 250 T-Started 17:35  
 (C) First Final Flow 50  Safety Joint 75 T-Open 20:43  
 (D) Initial Shut-In 1110  Circ Sub n/c T-Pulled 22:43  
 (E) Second Initial Flow 70  Hourly Standby — T-Out 01:35  
 (F) Second Final Flow 65  Mileage 22 RT 111.60 Comments —  
 (G) Final Shut-In 1079  Sampler —  
 (H) Final Hydrostatic 2148  Straddle —  Ruined Shale Packer —  
 Shale Packer —  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1686.60  
 Accessibility — MP/DST Disc't —  
 Sub Total 1686.60

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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56677

Well Name & No. Congdon #10-28 Test No. 2 Date 12-31-13  
 Company American Warrior INC. Elevation 2858 KB 2840 GL  
 Address P.O. Box 399 Garden City KS. 67846  
 Co. Rep / Geo. Kevin Timson / Mike Godfrey Rig Duke #1  
 Location: Sec. 28 Twp. 23-S. Rge. 32-W. Co. Finney State KS.

Interval Tested 4642-4720 Zone Tested Morrow  
 Anchor Length 78' Drill Pipe Run 4626 Mud Wt. 9.2  
 Top Packer Depth 4637 Drill Collars Run \_\_\_\_\_ Vis 50  
 Bottom Packer Depth 4642 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 4720 Chlorides 3,300 ppm System LCM 2

Blow Description I.F. - 30 - 1/4 INT. Blow Built to (B.O.B. in 3 min.)  
I.S.I - 45 - Blow BACK (Started after 5 min. Built to B.O.B. in 20 min.)  
F.F. - 45 - 1/4 INT. Blow Built to (B.O.B. in 4 min.)  
F.S.I - 60 - 1/4 INT. Blow BACK (Built to B.O.B. in 8 min.)

Rec	Feet of	%gas	%oil	%water	%mud
<u>2,520</u>	<u>G.I.P.</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>30 min</u>	<u>w/few specs mud</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>45 min</u>	<u>SMC G.O</u>	<u>10</u>	<u>85</u>	<u>5</u>	<u>0</u>
<u>1 hr</u>	<u>M.C.G.O</u>	<u>10</u>	<u>80</u>	<u>10</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1,638 BHT 116 Gravity 33.2 API RW ✓ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2,362  Test 1250 T-On Location 3:50:00  
 (B) First Initial Flow 103  Jars 250 T-Started 04:30:00  
 (C) First Final Flow 312  Safety Joint 75 T-Open 07:46:00  
 (D) Initial Shut-In 1,037  Circ Sub "D Roped Bar" 50 T-Pulled 10:46:00  
 (E) Second Initial Flow 341  Hourly Standby 1h 100 T-Out 15:50:00  
 (F) Second Final Flow 574  Mileage 72 R.t 111.60 Comments write on vacuum truck. 12:25-1:30 am 2:47  
 (G) Final Shut-In 1,036  Sampler \_\_\_\_\_ "thank-you"  
 (H) Final Hydrostatic 2,310  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 100  
 Day Standby 1d 3h Total 1936.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60  
 Sub Total 1836.60

Approved By [Signature] 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.