

## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Harley Sayles

**O'Brate #4-6**

**4-24s-29w Gray,KS**

Start Date: 2011.10.29 @ 02:17:02

End Date: 2011.10.29 @ 10:01:41

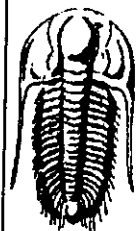
Job Ticket #: 042299      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.02 @ 11:09:51



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399  
Garden City, KS 67846

ATTN: Harley Sayles

4-24s-29w Gray, KS

O'Brate #4-6

Job Ticket: 042299

DST#: 2

Test Start: 2011.10.29 @ 02:17:02

### GENERAL INFORMATION:

Formation: **Morrow**

Deviated: **No** Whipstock: 2785.00 ft (KB)

Time Tool Opened: 06:29:57

Time Test Ended: 10:01:41

Interval: **4720.00 ft (KB) To 4774.00 ft (KB) (TVD)**

Total Depth: 4774.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 58

Reference Elevations: 2785.00 ft (KB)

2773.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: **6772** Outside

Press@RunDepth: 22.13 psig @ 4722.00 ft (KB)

Start Date: 2011.10.29

End Date:

2011.10.29

Start Time: 02:17:02

End Time:

10:01:41

Capacity: 8000.00 psig

Last Calib.: 2011.10.29

Time On Btm: 2011.10.29 @ 06:27:57

Time Off Btm: 2011.10.29 @ 07:44:56

TEST COMMENT: IF: Weak surface blow, died 12 min.

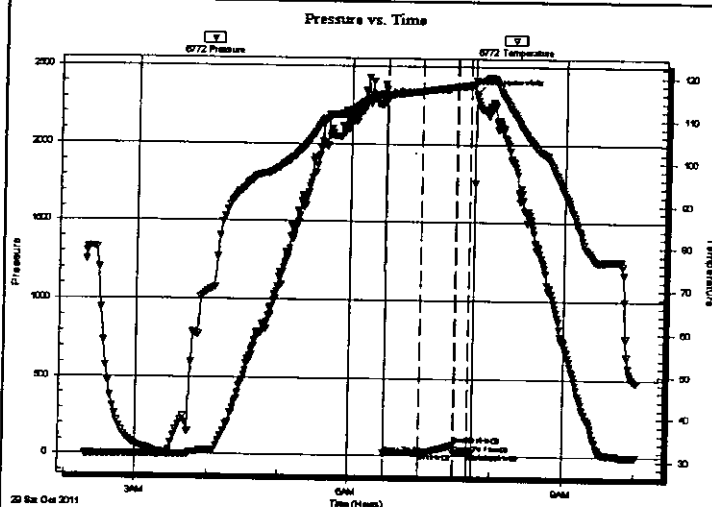
IS: No blow back

FF: No blow

FS: No blow back

### PRESSURE SUMMARY

| Time (Mn.) | Pressure (psig) | Temp (deg F) | Annotation           |
|------------|-----------------|--------------|----------------------|
| 0          | 2269.56         | 116.00       | Initial Hydro-static |
| 2          | 18.15           | 114.61       | Open To Flow (1)     |
| 32         | 19.81           | 116.73       | Shut-In(1)           |
| 61         | 77.33           | 117.76       | End Shut-In(1)       |
| 61         | 21.14           | 117.77       | Open To Flow (2)     |
| 72         | 22.13           | 118.16       | Shut-In(2)           |
| 76         | 23.85           | 118.29       | End Shut-In(2)       |
| 77         | 2327.31         | 119.19       | Final Hydro-static   |

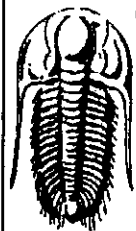


### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00        | 100%M       | 0.07         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

4-24s-29w Gray, KS

PO Box 399  
Garden City, KS 67846

O'Brate #4-6

Job Ticket: 042299

DST#: 2

ATTN: Harley Sayles

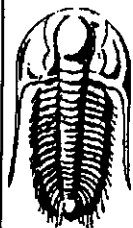
Test Start: 2011.10.29 @ 02:17:02

### Tool Information

|                           |                    |                       |                         |                                    |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe:               | Length: 4718.00 ft | Diameter: 3.80 inches | Volume: 66.18 bbl       | Tool Weight: 2000.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl        | Weight set on Packer: 20000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl        | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | Total Volume: 66.18 bbl | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 26.00 ft           |                       |                         | String Weight: Initial 70000.00 lb |
| Depth to Top Packer:      | 4720.00 ft         |                       |                         | Final 70000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                         |                                    |
| Interval between Packers: | 54.00 ft           |                       |                         |                                    |
| Tool Length:              | 82.00 ft           |                       |                         |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                         |                                    |
| Tool Comments:            |                    |                       |                         |                                    |

### Tool Description

| Tool Description   | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|--------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub    | 1.00        |            |          | 4693.00    |                               |
| Shut In Tool       | 5.00        |            |          | 4698.00    |                               |
| Hydraulic tool     | 5.00        |            |          | 4703.00    |                               |
| Jars               | 5.00        |            |          | 4708.00    |                               |
| Safety Joint       | 3.00        |            |          | 4711.00    |                               |
| Packer             | 5.00        |            |          | 4716.00    | 28.00 Bottom Of Top Packer    |
| Packer             | 4.00        |            |          | 4720.00    |                               |
| Stubb              | 1.00        |            |          | 4721.00    |                               |
| Perforations       | 1.00        |            |          | 4722.00    |                               |
| Recorder           | 0.00        | 8355       | Inside   | 4722.00    |                               |
| Recorder           | 0.00        | 6772       | Outside  | 4722.00    |                               |
| Perforations       | 15.00       |            |          | 4737.00    |                               |
| Change Over Sub    | 1.00        |            |          | 4738.00    |                               |
| Drill Pipe         | 32.00       |            |          | 4770.00    |                               |
| Change Over Sub    | 1.00        |            |          | 4771.00    |                               |
| Bullnose           | 3.00        |            |          | 4774.00    | 54.00 Bottom Packers & Anchor |
| Total Tool Length: | 82.00       |            |          |            |                               |



**TRILOBITE**  
**TESTING, INC**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

American Warrior, Inc.

4-24s-29w Gray, KS

PO Box 399  
Garden City, KS 67846

O'Brate #4-6

Job Ticket: 042299

DST#: 2

ATTN: Harley Sayles

Test Start: 2011.10.29 @ 02:17:02

### 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:

4300 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 5.00         | 100%M       | 0.070         |

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

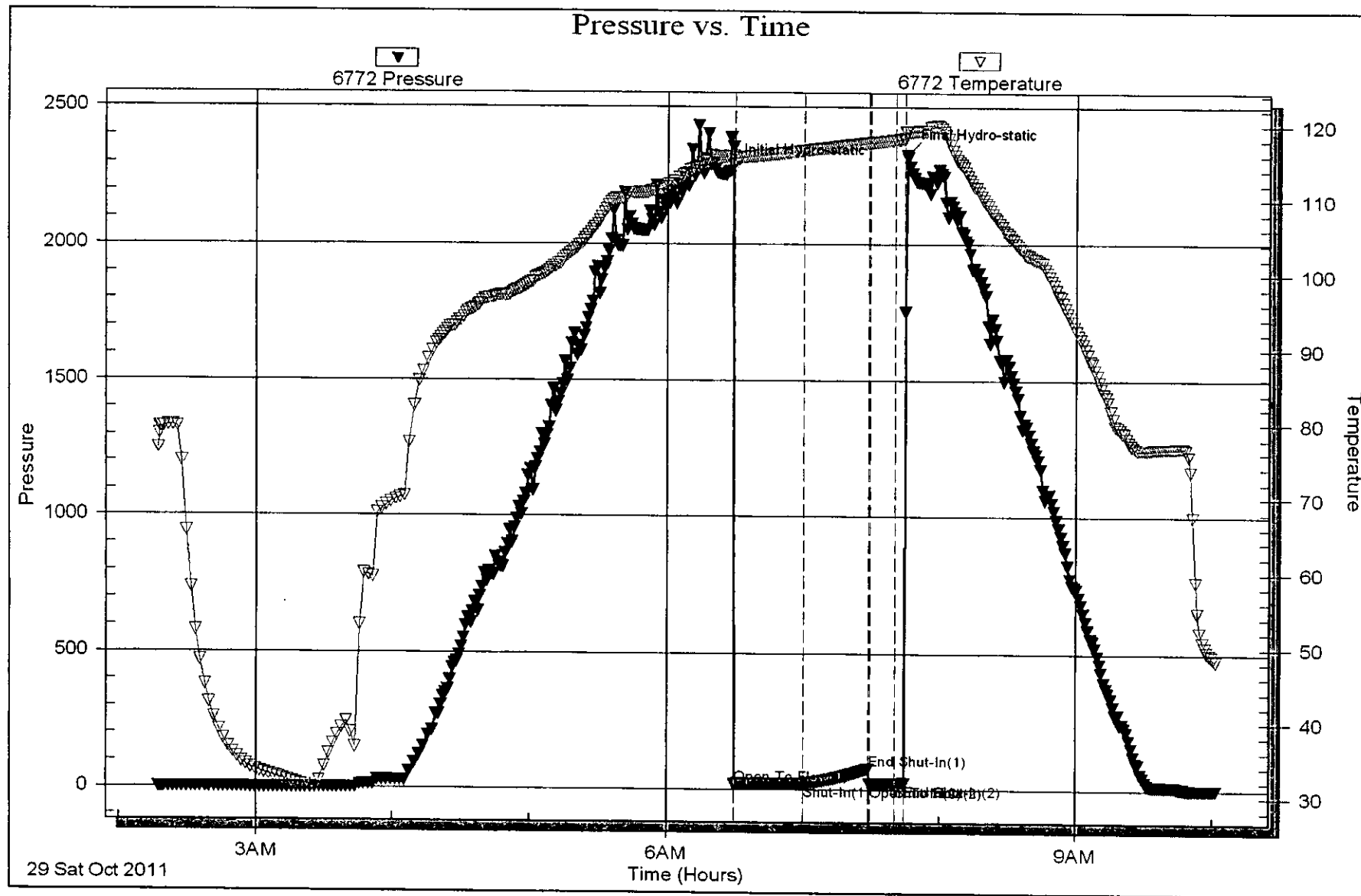
Num Gas Bombs: 0

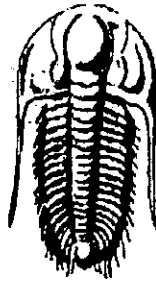
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.54@60F=4300ppm





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## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City, KS 67846

ATTN: Harley Sayles

**O'Brate #4-6**

**4-24s-29w Gray,KS**

Start Date: 2011.10.28 @ 18:06:05

End Date: 2011.10.28 @ 20:45:15

Job Ticket #: 042298      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.02 @ 11:07:58

American Warrior, Inc.

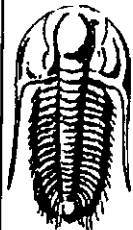
4-24s-29w Gray,KS

O'Brate #4-6

DST # 1

Morrow

2011.10.28



**TRILOBITE  
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## DRILL STEM TEST REPORT

American Warrior, Inc.

PO Box 399  
Garden City, KS 67846

ATTN: Harley Sayles

4-24s-29w Gray, KS

O'Brate #4-6

Job Ticket: 042298

DST#: 1

Test Start: 2011.10.28 @ 18:06:05

### GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock 2785.00 ft (KB)

Time Tool Opened:

Time Test Ended: 20:45:15

Interval: 4720.00 ft (KB) To 4774.00 ft (KB) (TVD)

Total Depth: 4774.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 58

Reference Elevations: 2785.00 ft (KB)

2773.00 ft (CF)

KB to GR/CF: 12.00 ft

### Serial #: 6772

Press@RunDepth: psig @ ft (KB)

Start Date: 2011.10.28 End Date: 2011.10.28

Start Time: 18:06:05 End Time: 20:45:15

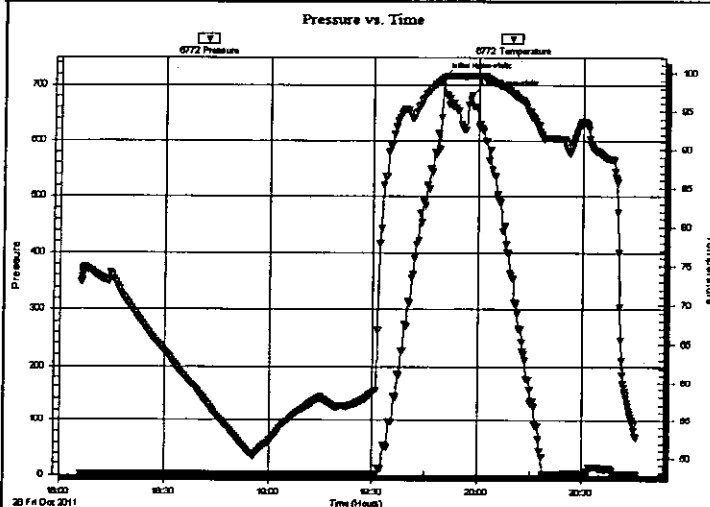
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btmr: 2011.10.28 @ 19:50:00

Time Off Btmr: 2011.10.28 @ 19:58:00

TEST COMMENT: IF: Hit bridge @ 1070', pulled tool. Ms-run



### PRESSURE SUMMARY

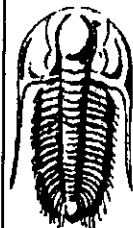
| Time (Mn.) | Pressure (psig) | Temp (deg F) | Annotation           |
|------------|-----------------|--------------|----------------------|
| 0          | 714.68          | 99.29        | Initial Hydro-static |
| 8          | 682.39          | 99.66        | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



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## DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

4-24s-29w Gray, KS

PO Box 399  
Garden City, KS 67846

O'Brate #4-6

Job Ticket: 042298

DST#: 1

ATTN: Harley Sayles

Test Start: 2011.10.28 @ 18:06:05

### Tool Information

|                           |         |    |           |        |               |       |                        |    |
|---------------------------|---------|----|-----------|--------|---------------|-------|------------------------|----|
| Drill Pipe:               | Length: | ft | Diameter: | inches | Volume:       | - bbl | Tool Weight:           | lb |
| Heavy Wt. Pipe:           | Length: | ft | Diameter: | inches | Volume:       | - bbl | Weight set on Packer:  | lb |
| Drill Collar:             | Length: | ft | Diameter: | inches | Volume:       | - bbl | Weight to Pull Loose:  | lb |
|                           |         |    |           |        | Total Volume: | - bbl | Tool Chased            | ft |
| Drill Pipe Above KB:      |         | ft |           |        |               |       | String Weight: Initial | lb |
| Depth to Top Packer:      |         | ft |           |        |               |       | Final                  | lb |
| Depth to Bottom Packer:   |         | ft |           |        |               |       |                        |    |
| Interval between Packers: | 0.00    | ft |           |        |               |       |                        |    |
| Tool Length:              |         | ft |           |        |               |       |                        |    |
| Number of Packers:        | 2       |    | Diameter: | 6.75   | inches        |       |                        |    |

Tool Comments: Hit Bridge @ 1070', pulled tool, missrun

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

0.00

0.00

0.00

Total Tool Length:



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## DRILL STEM TEST REPORT

### FLUID SUMMARY

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4-24s-29w Gray, KS

PO Box 399  
Garden City, KS 67846

O'Brate #4-6

Job Ticket: 042298

DST#: 1

ATTN: Harley Sayles

Test Start: 2011.10.28 @ 18:06:05

### Mud and Cushion Information

|              |                 |                       |      |                 |         |
|--------------|-----------------|-----------------------|------|-----------------|---------|
| Mud Type:    |                 | Cushion Type:         |      | Oil API:        | deg API |
| Mud Weight:  | lb/gal          | Cushion Length:       | ft   | Water Salinity: | ppm     |
| Viscosity:   | sec/qt          | Cushion Volume:       | bbl  |                 |         |
| Water Loss:  | in <sup>3</sup> | Gas Cushion Type:     |      |                 |         |
| Resistivity: | ohm.m           | Gas Cushion Pressure: | psig |                 |         |
| Salinity:    | ppm             |                       |      |                 |         |
| Filter Cake: | inches          |                       |      |                 |         |

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
|              |             |               |

Total Length: ft

Total Volume: bbl

Num Fluid Samples:

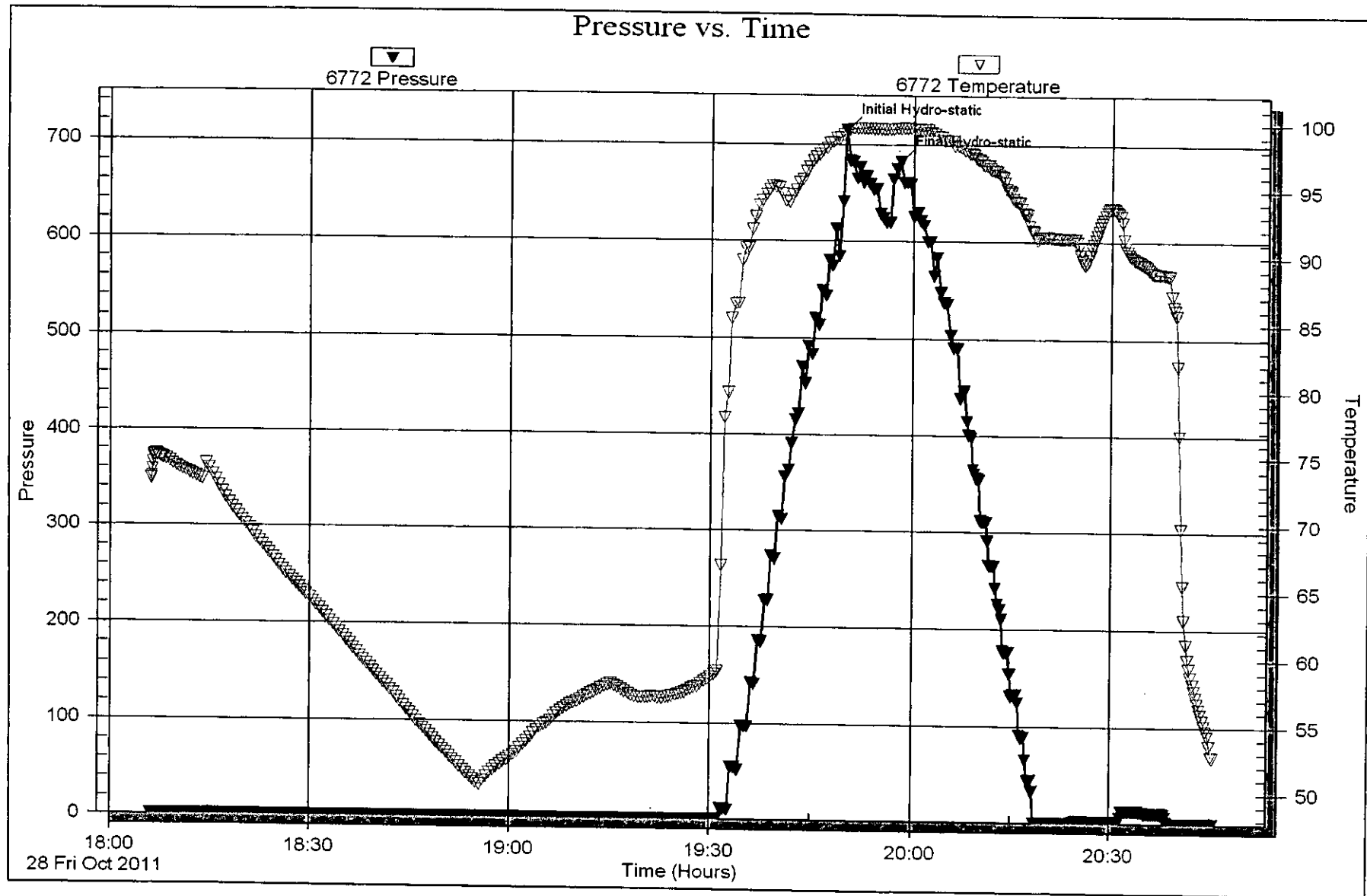
Num Gas Bombs:

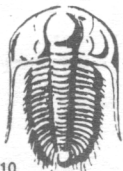
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## RECEIVED Test Ticket

OCT 31 2011

NO. 052298

4/10

BY: \_\_\_\_\_

Well Name & No. OBiate 4-6 Test No. 1 Date 10-28-11  
 Company American Warrior, Inc. Elevation 2785 KB 2773 GL  
 Address 3118 Cummings Rd. P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Harky Sayles Rig U61 #1  
 Location: Sec. 4 Twp. 24 Rge. 29 Co. Gray State KS

Interval Tested 4720-4774 Zone Tested Morrow  
 Anchor Length 54' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 4715 Drill Collars Run Ø Vis 52  
 Bottom Packer Depth 4720 Wt. Pipe Run N.A. WL 8.8  
 Total Depth 4774 Chlorides 2400 ppm System LCM 2#  
 Blow Description IF: Hit Bridge @ 1070', Pulled Tool  
ISJ:  
FF:  
FSD:

| 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 | Feet of | %gas | %oil | %water | %mud |

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

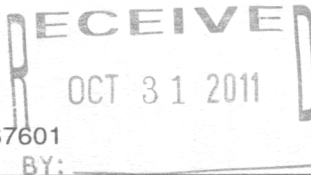
(A) Initial Hydrostatic \_\_\_\_\_ ☒ Test CONV (MISSINN) 1025 T-On Location 1700  
 (B) First Initial Flow \_\_\_\_\_ ☒ Jars 250 T-Started 1900  
 (C) First Final Flow \_\_\_\_\_ ☒ Safety Joint 75 T-Open \_\_\_\_\_  
 (D) Initial Shut-In \_\_\_\_\_ ☐ Circ Sub \_\_\_\_\_ T-Pulled 2000  
 (E) Second Initial Flow \_\_\_\_\_ ☐ Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow \_\_\_\_\_ ☒ Mileage 100 (Scott City) 140 Comments #6772 1806  
 (G) Final Shut-In \_\_\_\_\_ ☐ Sampler \_\_\_\_\_ #8355 1815  
 (H) Final Hydrostatic \_\_\_\_\_ ☐ Straddle \_\_\_\_\_ ☐ Ruined Shale Packer \_\_\_\_\_  
 \_\_\_\_\_ ☐ Shale Packer \_\_\_\_\_ ☐ Ruined Packer \_\_\_\_\_  
 Initial Open \_\_\_\_\_ ☐ Extra Packer \_\_\_\_\_ ☐ Extra Copies \_\_\_\_\_  
 Initial Shut-In \_\_\_\_\_ ☐ Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Final Flow \_\_\_\_\_ ☐ Day Standby \_\_\_\_\_ Total 1490  
 Final Shut-In \_\_\_\_\_ ☒ MISSINN Accessability MP/DST Disc't N.A.  
 Sub Total 1490

Approved By Harky Sayles Our Representative Chris Hagan  
 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 1733 • Hays, Kansas 67601



## Test Ticket

NO. 042299

Well Name & No. O'Brien 4-6 Test No. 2 Date 10-29-11  
 Company American Warrior, Inc. Elevation 2785 KB 2773 GL  
 Address P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Harley Sayles Rig Val #1  
 Location: Sec. 4 Twp. 24 Rge. 29 Co. Gray State KS

Interval Tested 4720-4774 Zone Tested Narrow  
 Anchor Length 54' Drill Pipe Run 4718 Mud Wt. 9.3  
 Top Packer Depth 5775 4715 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 5770 4720 Wt. Pipe Run N.A. WL 8.8  
 Total Depth 54774 Chlorides 2400 ppm System LCM 2#

Blow Description IF: Weak surface blow, died 12 in.

IST: No blow back

FF: No blow

FSI: No blow back

| Rec      | Feet of    | %gas | %oil | %water      | %mud |
|----------|------------|------|------|-------------|------|
| <u>S</u> | <u>Mud</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      | Feet of    | %gas | %oil | %water      | %mud |

Rec Total S BHT 118 Gravity API RW 1.54 @ 60 °F Chlorides 4300 ppm

|                                     |                                                             |                                              |
|-------------------------------------|-------------------------------------------------------------|----------------------------------------------|
| (A) Initial Hydrostatic <u>2270</u> | <input checked="" type="checkbox"/> Test <u>conv 1225"</u>  | T-On Location <u>0200</u>                    |
| (B) First Initial Flow <u>18</u>    | <input checked="" type="checkbox"/> Jars <u>250"</u>        | T-Started <u>0330</u>                        |
| (C) First Final Flow <u>20</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75"</u> | T-Open <u>0630</u>                           |
| (D) Initial Shut-In <u>77</u>       | <input type="checkbox"/> Circ Sub                           | T-Pulled <u>0742</u>                         |
| (E) Second Initial Flow <u>21</u>   | <input type="checkbox"/> Hourly Standby                     | T-Out <u>1000</u>                            |
| (F) Second Final Flow <u>22</u>     | <input checked="" type="checkbox"/> Mileage <u>0</u>        | Comments <u>#6772 0216</u>                   |
| (G) Final Shut-In <u>24</u>         | <input type="checkbox"/> Sampler                            | <u>#8355 0225</u>                            |
| (H) Final Hydrostatic <u>2327</u>   | <input type="checkbox"/> Straddle                           |                                              |
|                                     | <input type="checkbox"/> Shale Packer                       | <input type="checkbox"/> Ruined Shale Packer |
|                                     | <input type="checkbox"/> Extra Packer                       | <input type="checkbox"/> Ruined Packer       |
|                                     | <input type="checkbox"/> Extra Recorder                     | <input type="checkbox"/> Extra Copies        |
|                                     | <input type="checkbox"/> Day Standby                        | Sub Total <u>1550</u>                        |
|                                     | <input type="checkbox"/> Accessibility                      | Total <u>1550</u>                            |
|                                     | Sub Total <u>1550</u>                                       | MP/DST Disc't <u>N.A.</u>                    |

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In 2

Approved By Harley Sayles

Our Representative CSF Chris Hegran

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.