



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1186119  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

|                                   |                 |   |
|-----------------------------------|-----------------|---|
| Spud Date or<br>Recompletion Date | Date Reached TD | Completion Date or<br>Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1186119

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used  |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD  |                  |                |              |                            |
|--|------------------|----------------|--------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |

|                |       |         |            |   |
|----------------|-------|---------|------------|---|
| TUBING RECORD: | Size: | Set At: | Packer At: | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No |
|----------------|-------|---------|------------|---|

|   |  |
|---|--|
| Date of First, Resumed Production, SWD or ENHR. | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |
|---|--|

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
|                                   |           |         |             |               |         |

|  |  |   |
|--|--|---|
| <b>DISPOSITION OF GAS:</b><br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | <b>METHOD OF COMPLETION:</b><br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--|--|---|

|           |                        |
|-----------|------------------------|
| Form      | ACO1 - Well Completion |
| Operator  | American Warrior, Inc. |
| Well Name | LJ Unit 1              |
| Doc ID    | 1186119                |

Tops

| Name             | Top  | Datum |
|------------------|------|-------|
| Anhydrite        | 1472 | 710   |
| Heebner          | 3648 | -1466 |
| Lansing          | 3692 | -1510 |
| Base Kansas City | 4018 | -1836 |
| Pawnee           | 4096 | -1914 |
| Fort Scott       | 4182 | -2000 |
| Cherokee         | 4204 | -2022 |
| Mississippian    | 4309 | -2127 |
| Gilmore City     | 4412 | -2230 |
| LTD              | 4427 | -2245 |



# Geologic Report

Drilling Time and Sample Log

|   |                     |  |
|---|---------------------|--|
| Operator <b>American Warrior, Inc.</b>  |                     | Elevation<br>KB 2182'                  |
| Lease <b>LJ Unit</b>                    | No. <b>1</b>        | DF<br>GL 2174'                         |
| API # <b>15-135-25663-0000</b>          |                     | Casing Record<br>Surface 8 5/8" @ 222' |
| Field <b>Walnut Hill</b>                |                     | Production<br>None                     |
| Location <b>600' FNL &amp; 142' FEL</b> |                     | Electrical Surveys<br>CNL/CDL, DIL     |
| Sec. <b>21</b>                          | Twp. <b>18s</b>     | Rge. <b>22w</b>                        |
| County <b>Ness</b>                      | State <b>Kansas</b> |  |

| Formation              | Log Tops    | Sample Tops | Struct Comp |
|------------------------|-------------|-------------|-------------|
| Anhydrite              | 1472' +710  | 1471' +711  | FL          |
| Base                   | 1508' +674  | 1505' +677  | -3          |
| Heebner                | 3648' -1466 | 3643' -1461 | -7          |
| Lansing                | 3692' -1510 | 3689' -1507 | -5          |
| BKc                    | 4018' -1836 | 4011' -1829 | -11         |
| Pawnee                 | 4096' -1914 | 4091' -1909 | -11         |
| Fort Scott             | 4182' -2000 | 4176' -1994 | -9          |
| Cherokee               | 4204' -2022 | 4198' -2016 | -11         |
| Reworked Mississippian | 4272' -2090 | 4267' -2085 |             |
| Mississippian          | 4309' -2127 | 4306' -2124 | +50         |
| Gilmore City           | 4412' -2230 | 4406' -2224 | -19         |
| Total Depth            | 4427' -2245 | 4420' -2238 |             |

Reference Well For Structural Comparison American Warrior, Inc. Larry Stieben #2-21  
480' FNL & 2180' FEL Sec. 21 T18s R22w Ness Co. Kansas

Drilling Contractor Discovery Drilling Co. Inc. Rig #3  
Commenced 11-16-2013 Completed 11-24-2013  
Samples Saved From 3900' To RTD  
Drilling Time Kept From 3500' To RTD  
Samples Examined From 3900' To RTD  
Geological Supervision From 3900' To RTD

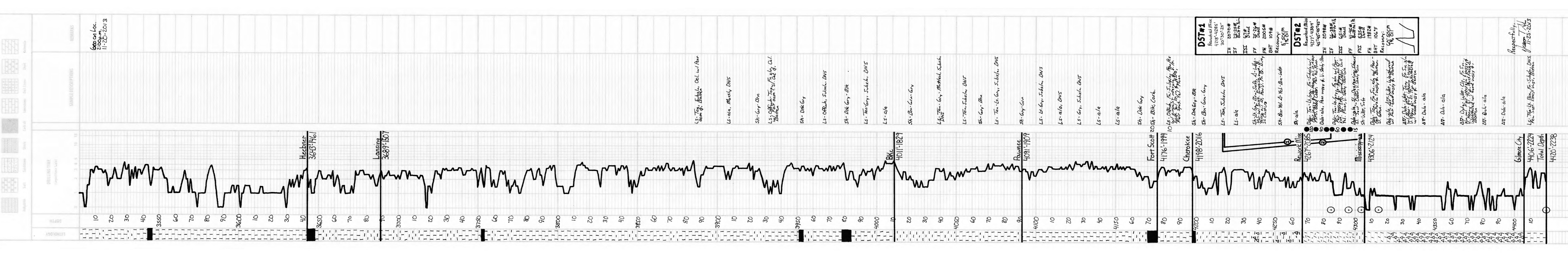
Displacement 3400' Mud Type Chemical

### Summary and Recommendations

The location for the LJ Unit #1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted both of which were negative. After all gathered data had been examined the decision was made to plug and abandon the LJ Unit #1 well.

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



# **Geological Report**

American Warrior, Inc.

**LJ Unit #1**

600' FNL & 142' FEL

Sec. 21 T18s R22w

Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
LJ Unit #1  
600' FNL & 142' FEL  
Sec. 21 T18s R22w  
Ness County, Kansas  
API # 15-135-25663-0000

Drilling Contractor: Discovery Drilling Co. Inc. Rig #3

Geologist: Jason T Alm

Spud Date: November 16, 2013

Completion Date: November 24, 2013

Elevation: 2174' Ground Level  
2182' Kelly Bushing

Directions: Bazine KS, 3 mi. West on Hwy 96 to AA rd. North  
2 mi. West into location.

Casing: 222' 8 5/8" surface casing

Samples: 10' wet and dry, 3900' to RTD

Drilling Time: 3500' to RTD

Electric Logs: Log-Tech, Inc. "J. Hendrickson"  
CNL/CNL, DIL

Drillstem Tests: Two, Trilobite Testing, Inc. "Ray Schwager, Jim  
Svaty"

Problems: None

Remarks: DST #1 was pulled early due to weak blow

## Formation Tops

| <b>Formation</b> | <b>American Warrior, Inc.<br/>LJ Unit #1<br/>Sec. 21 T18s R22w<br/>600' FNL &amp; 142' FEL</b> |
|------------------|--|
| Anhydrite        | <b>1472', +710</b>   |
| Base             | <b>1508', +674</b>   |
| Heebner          | <b>3648', -1466</b>  |
| Lansing          | <b>3692', -1510</b>  |
| BKc              | <b>4018', -1836</b>  |
| Pawnee           | <b>4096', -1914</b>  |
| Fort Scott       | <b>4182', -2000</b>  |
| Cherokee         | <b>4204', -2022</b>  |
| Reworked Miss    | <b>4272', -2090</b>  |
| Mississippian    | <b>4309', -2127</b>  |
| Gilmore City     | <b>4412', -2230</b>  |
| LTD              | <b>4427', -2245</b>  |
| RTD              | <b>4420', -2238</b>  |

## Sample Zone Descriptions

**Reworked Miss (4272', -2090):**      **Covered in DST #1,2**  
 Dolo – Fine to sub-crystalline with poor to fair vuggy porosity, light to heavy oil stain and saturation, slight to fair show of free oil, good odor, dull to fair cut yellow fluorescents, 120-15 units hotwire.

**Drill Stem Tests**  
Trilobite Testing, Inc.  
"Ray Schwager, Jim Svaty"

**DST #1**

**Reworked Mississippian**

Interval (4218' – 4285') Anchor Length 67'

|     |                        |         |
|-----|------------------------|---------|
| IHP | – 2070 #               |         |
| IFP | – 30" – Built to ½ in. | 23-25 # |
| ISI | – 30" – Dead           | 67 #    |
| FFP | – 25" – Dead           | 25-26 # |
| FHP | – 2005 #               |         |
| BHT | – 109°F                |         |

Recovery: 5' SOCM 1% Oil

**DST #2**

**Reworked Mississippian**

Interval (4217' – 4304') Anchor Length 87'

|     |                          |         |
|-----|--------------------------|---------|
| IHP | – 2098 #                 |         |
| IFP | – 45" – Built to 4 ½ in. | 26-38 # |
| ISI | – 45" – Dead             | 651 #   |
| FFP | – 45" – Built to 1 ½ in. | 41-45 # |
| FSI | – 45" – Dead             | 535     |
| FHP | – 1982 #                 |         |
| BHT | – 107°F                  |         |

Recovery: 60' SOCM 1% Oil

**Structural Comparison**

|                  | American Warrior, Inc.<br>LJ Unit #1<br>Sec. 21 T18s R22w<br>600' FNL & 142' FEL | American Warrior, Inc.<br>Larry Stieben #1-21<br>Sec. 21 T18s R22w<br>1030' FNL & 1660' FEL |              | American Warrior, Inc.<br>Larry Stieben #2-21<br>Sec. 21 T18s R22w<br>480' FNL & 2180' FEL |              |
|------------------|--|---|--------------|--|--------------|
| <b>Formation</b> |  |   |              |  |              |
| Anhydrite        | <b>1472', +710</b>   | 1525', +709   | <b>(+1)</b>  | 1523', +710  | <b>(FL)</b>  |
| Base             | <b>1508', +674</b>   | 1558', +676   | <b>(-2)</b>  | 1556', +677  | <b>(-3)</b>  |
| Heebner          | <b>3648', -1466</b>  | 3690', -1456  | <b>(-10)</b> | 3692', -1459   | <b>(-7)</b>  |
| Lansing          | <b>3692', -1510</b>  | 3736', -1502  | <b>(-8)</b>  | 3738', -1505   | <b>(-5)</b>  |
| BKc              | <b>4018', -1836</b>  | 4052', -1818  | <b>(-16)</b> | 4058', -1825   | <b>(-11)</b> |
| Pawnee           | <b>4096', -1914</b>  | 4130', -1896  | <b>(-18)</b> | 4136', -1903   | <b>(-11)</b> |
| Fort Scott       | <b>4182', -2000</b>  | 4214', -1980  | <b>(-20)</b> | 4224', -1991   | <b>(-9)</b>  |
| Cherokee         | <b>4204', -2022</b>  | 4236', -2002  | <b>(-20)</b> | 4244', -2011   | <b>(-11)</b> |
| Reworked Miss    | <b>4272', -2090</b>  | Not Encountered   | <b>NE</b>    | Not Encountered  | <b>NE</b>    |
| Mississippian    | <b>4309', -2127</b>  | 4305', -2071  | <b>(-56)</b> | 4410', -2177   | <b>(+50)</b> |
| Gilmore City     | <b>4412', -2230</b>  | Not Reached   | <b>NR</b>    | 4444', -2211   | <b>(-19)</b> |



## **Summary**

The location for the LJ Unit #1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted all of which were negative. After all gathered data had been examined the decision was made to plug and abandon the LJ Unit #1 well.

Respectfully Submitted,

Jason T Alm  
Hard Rock Consulting, Inc.



CHARGE TO: Acme Services, Inc.  
 ADDRESS: 123 Main St  
 CITY, STATE, ZIP CODE: 12345

TICKET 20501  
 PAGE 1 OF 1

SERVICE LOCATIONS

|   |                 |               |                        |                 |                  |           |       |
|---|-----------------|---------------|------------------------|-----------------|------------------|-----------|-------|
| 1 | WELL/PROJECT NO | LEASE         | COUNTY/PARISH          | STATE           | CITY             | DATE      | OWNER |
| 1 | 1               | Lease Unit    | Adas                   | LA              | Greene           | 11-1-12   | Swine |
| 2 | TICKET TYPE     | CONTRACTOR    | RIG NAME/NO.           | SHIPPED VIA     | DELIVERED TO     | ORDER NO. |       |
| 2 | SALES           | Oil Services  | 3                      | Truck           | Greene           |           |       |
| 3 | WELL TYPE       | WELL CATEGORY | JOB PURPOSE            | WELL PERMIT NO. | WELL LOCATION    |           |       |
| 3 | Oil             | Development   | General 5 3/8" surface |                 | Greene - 3W 20 W |           |       |

INVOICE INSTRUCTIONS

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING |      |    | DESCRIPTION                   | QTY. | UM | QTY. | UM  | UNIT PRICE | AMOUNT   |
|-----------------|----------------------------------|------------|------|----|-------------------------------|------|----|------|-----|------------|----------|
|                 |                                  | LOC        | ACCT | DF |                               |      |    |      |     |            |          |
| 275             |                                  |            |      |    | MILEAGE                       |      |    | 20   | mi  | 6.00       | 120.00   |
| 5765            |                                  |            |      |    | Pump Change - Shallow Surface | 1    |    | 1    | hr  | 100.00     | 100.00   |
| 325             |                                  |            |      |    | Standard Cement               |      |    | 160  | lbs | 4.50       | 720.00   |
| 279             |                                  |            |      |    | Bombate Gel                   | 2    | %  | 300  | lbs | 34.25      | 10275.00 |
| 278             |                                  |            |      |    | Coleman Chloride              | 3    | %  | 4    | ds  | 50.00      | 200.00   |
| 581             |                                  |            |      |    | Source Charge Cement          |      |    | 10   | ds  | 20.00      | 200.00   |
| 581             |                                  |            |      |    | Minimum Drayage Charge        |      |    | 1    | ds  | 250.00     | 250.00   |

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 11-1-12 TIME SIGNED: 5:00 P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  YES  NO

WE UNDERSTOOD AND MET YOUR NEEDS?  YES  NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?  YES  NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  YES  NO

ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

TOTAL 4285.00

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

SWIFT OPERATOR: David Hatcher APPROVAL: \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-16-13 PAGE NO.

CUSTOMER American Warrior WELL NO. F 1 LEASE L.J. Unit JOB TYPE Cement 8 5/8 Surface TICKET NO. 25581

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS                              |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
|           |      |            |                    | T     | C | TUBING         | CASING |   |
|           | 200  |            |                    |       |   |                |        | on Location   |
|           |      |            |                    |       |   |                |        | TD- 224 TP- 222.26<br>8 5/8" 23" casing<br>160 sks STD 2% Gal 3% CC |
|           | 2015 |            |                    |       |   |                |        | Start 8 5/8" Surface Pipe in well                                   |
|           | 2100 |            |                    |       |   |                |        | Break Circulation   |
|           | 2105 | 3          | 5                  |       | ✓ |                | 200    | Pump 5 Lbl Water Spacer   |
|           | 2108 | 4 1/4      | 39                 |       | ✓ |                | 200    | min 160 sks STD 2% 3% @ 147 <sup>1/2</sup>                          |
|           | 2120 | 4 1/4      | 10                 |       | ✓ |                | 200    | Start Displacement  |
|           |      | 4 1/4      | 10                 |       | ✓ |                | 300    | circulate cement to surface<br>- 20 sks to pit -                    |
|           | 2125 | ✓          | 13.5               |       | ✓ |                | 400    | Kick pump out   |
|           |      |            |                    |       |   |                |        | Shut in valve 400psi - Hold -                                       |
|           |      |            |                    |       |   |                |        | wash up truck   |
|           | 2250 |            |                    |       |   |                |        | Job complete  |

Thank You  
Dave John Russ





## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **LJ Unit#1**

### **21-18s-22w Ness,KS**

Start Date: 2013.11.22 @ 06:05:10

End Date: 2013.11.22 @ 12:41:19

Job Ticket #: 54375                      DST #: 1

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

Printed: 2013.11.26 @ 10:42:19



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**21-18s-22w Ness,KS**

**LJ Unit#1**

Job Ticket: 54375

**DST#: 1**

Test Start: 2013.11.22 @ 06:05:10

## GENERAL INFORMATION:

Formation: **Miss./ Warsaw**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:35:20  
 Time Test Ended: 12:41:19  
 Interval: **4218.00 ft (KB) To 4285.00 ft (KB) (TVD)**  
 Total Depth: 4285.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 70  
 Reference Elevations: 2182.00 ft (KB)  
 2174.00 ft (CF)  
 KB to GR/CF: 8.00 ft

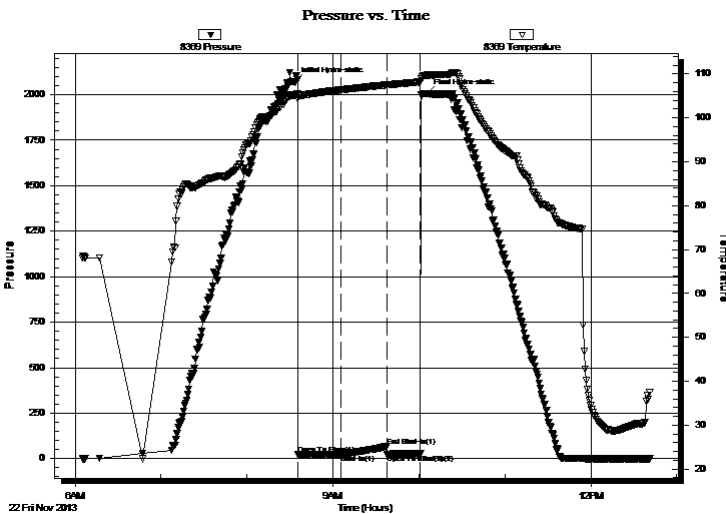
**Serial #: 8369**

**Inside**

Press@RunDepth: 25.20 psig @ 4223.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.22 End Date: 2013.11.22 Last Calib.: 2013.11.22  
 Start Time: 06:05:10 End Time: 12:41:19 Time On Btm: 2013.11.22 @ 08:33:05  
 Time Off Btm: 2013.11.22 @ 10:05:50

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" bl  
 30-ISIP-no bl  
 25-FFP-no bl ,pulled tool

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2070.70         | 105.16       | Initial Hydro-static |
| 3           | 23.56           | 104.38       | Open To Flow (1)     |
| 33          | 25.20           | 106.39       | Shut-In(1)           |
| 65          | 66.71           | 107.51       | End Shut-In(1)       |
| 65          | 25.96           | 107.51       | Open To Flow (2)     |
| 88          | 26.10           | 108.21       | Shut-In(2)           |
| 93          | 2004.63         | 109.72       | Final Hydro-static   |

## Recovery

| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 5.00        | SOCM 1%O99%M | 0.02         |
|             |              |              |
|             |              |              |
|             |              |              |
|             |              |              |

## 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: Jason Alm

**21-18s-22w Ness, KS**  
**LJ Unit#1**  
Job Ticket: 54375      **DST#: 1**  
Test Start: 2013.11.22 @ 06:05:10

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4182.00 ft | Diameter: 3.80 inches | Volume: 58.66 bbl              | Tool Weight: 2200.00 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: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | <u>Total Volume: 58.81 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                       |                                | String Weight: Initial 61000.00 lb |
| Depth to Top Packer:      | 4218.00 ft         |                       |                                | Final 61000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 67.00 ft           |                       |                                |                                    |
| Tool Length:              | 95.00 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> |
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|
|-------------------------|--------------------|-------------------|-----------------|-------------------|-----------------------|

|                 |       |      |         |         |                                    |
|-----------------|-------|------|---------|---------|------------------------------------|
| Change Over Sub | 1.00  |      |         | 4191.00 |                                    |
| Shut In Tool    | 5.00  |      |         | 4196.00 |                                    |
| Hydraulic tool  | 5.00  |      |         | 4201.00 |                                    |
| Jars            | 5.00  |      |         | 4206.00 |                                    |
| Safety Joint    | 2.00  |      |         | 4208.00 |                                    |
| Packer          | 5.00  |      |         | 4213.00 | 28.00      Bottom Of Top Packer    |
| Packer          | 5.00  |      |         | 4218.00 |                                    |
| Stubb           | 1.00  |      |         | 4219.00 |                                    |
| Perforations    | 4.00  |      |         | 4223.00 |                                    |
| Recorder        | 0.00  | 8369 | Inside  | 4223.00 |                                    |
| Recorder        | 0.00  | 8700 | Outside | 4223.00 |                                    |
| Blank Spacing   | 33.00 |      |         | 4256.00 |                                    |
| Perforations    | 26.00 |      |         | 4282.00 |                                    |
| Bullnose        | 3.00  |      |         | 4285.00 | 67.00      Bottom Packers & Anchor |

**Total Tool Length: 95.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

**21-18s-22w Ness,KS**

PO Box 399  
Garden City KS 67846

**LJ Unit#1**

Job Ticket: 54375

**DST#: 1**

ATTN: Jason Alm

Test Start: 2013.11.22 @ 06:05:10

## 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:

bbbl

Water Loss: 7.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 5.00         | SOCM 1%O99%M | 0.025         |

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

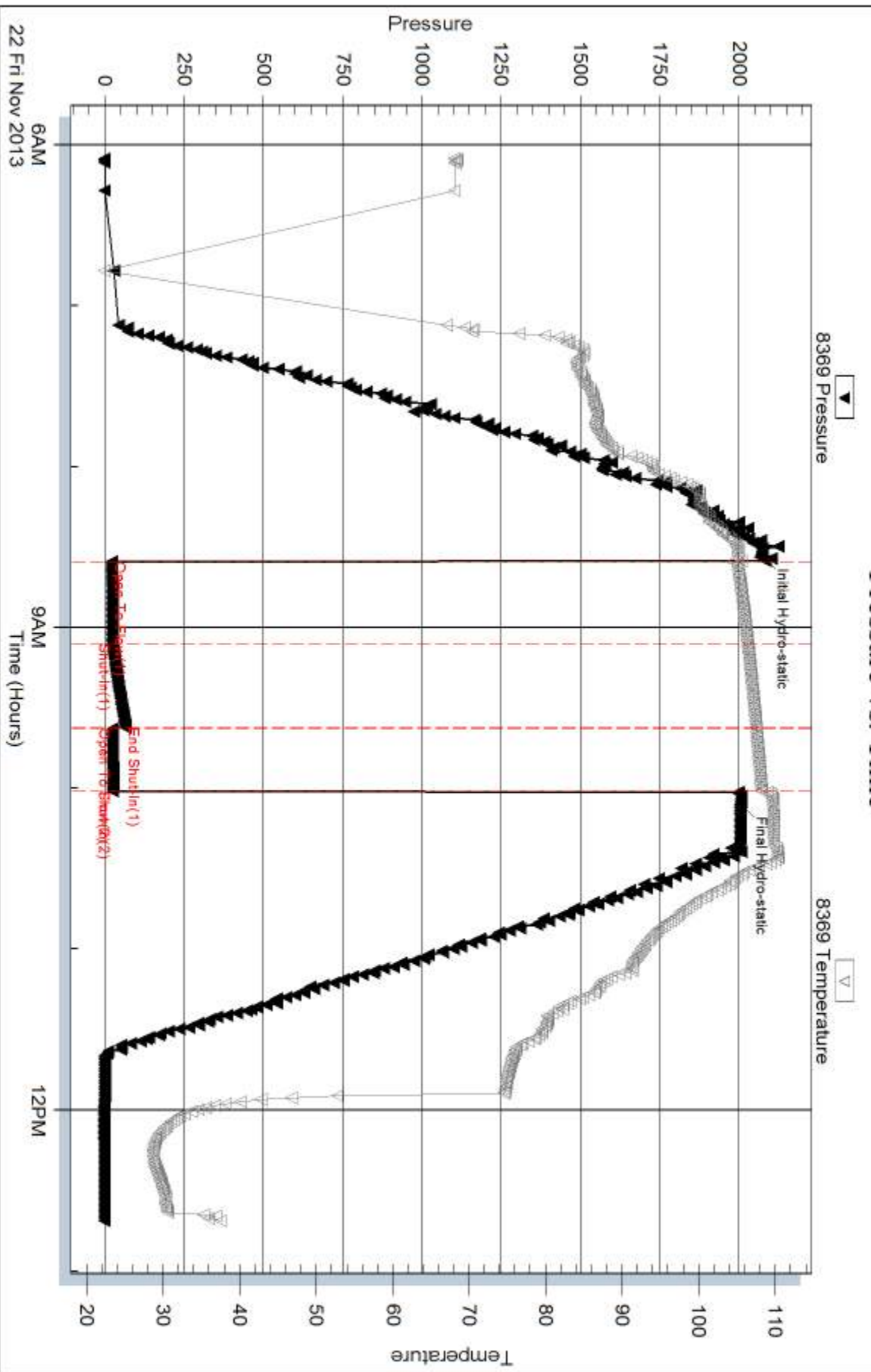
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

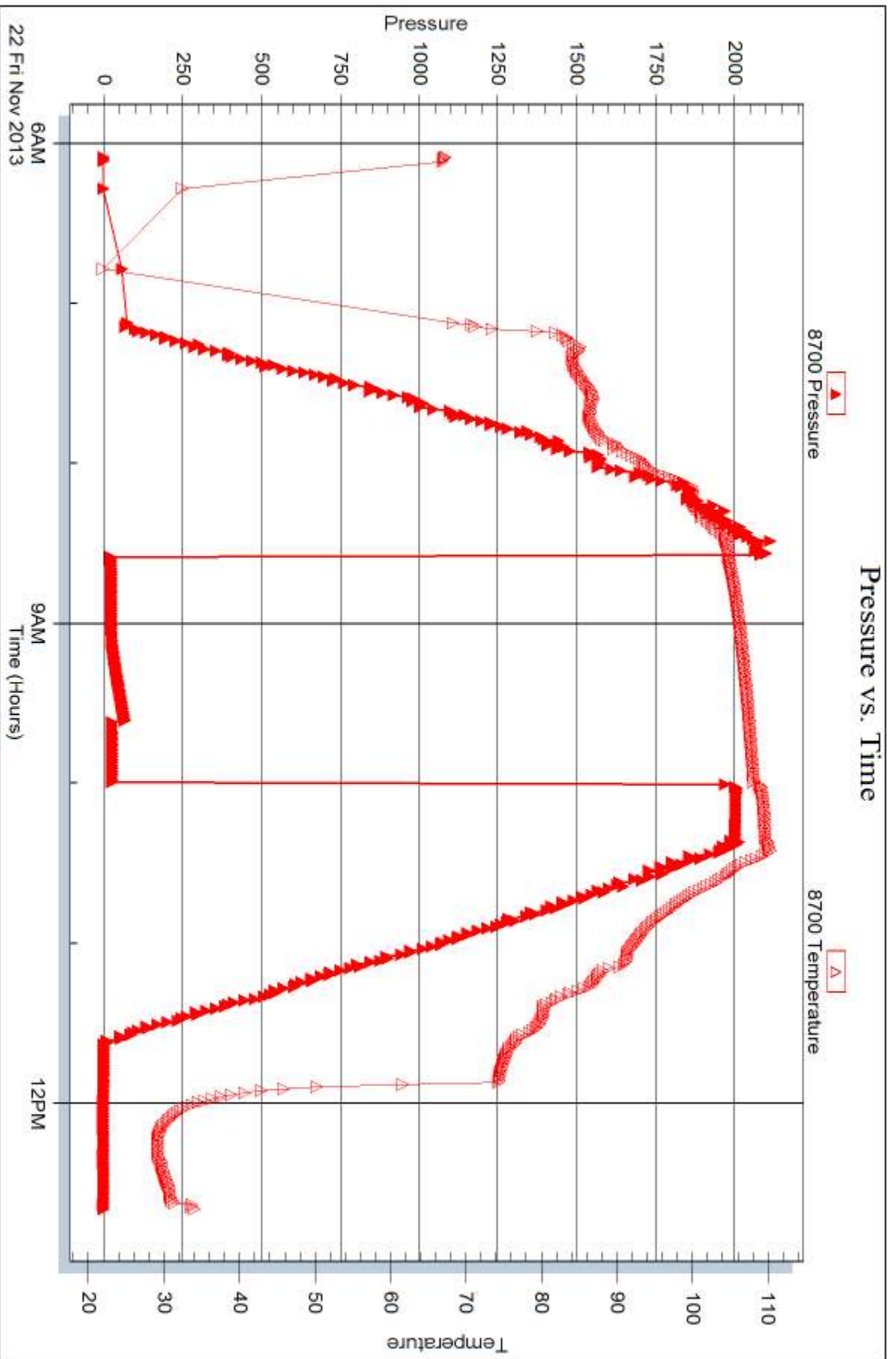


Serial #: 8700

Outside American Warrior Inc

LJ Unit#1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54375

Printed: 2013.11.26 @ 10:42:21



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Jason Alm

### **LJ Unit#1**

### **21-18s-22w Ness,KS**

Start Date: 2013.11.23 @ 17:52:00

End Date: 2013.11.24 @ 02:24:00

Job Ticket #: 55792                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.26 @ 10:41:42



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**21-18s-22w Ness,KS**

**LJ Unit#1**

Job Ticket: 55792

**DST#: 2**

Test Start: 2013.11.23 @ 17:52:00

## GENERAL INFORMATION:

Formation: **Miss-Warsaw**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:05:30

Time Test Ended: 02:24:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

**Interval: 4217.00 ft (KB) To 4304.00 ft (KB) (TVD)**

Reference Elevations: 2182.00 ft (KB)

Total Depth: 4304.00 ft (KB) (TVD)

2174.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8289 Outside**

Press@RunDepth: 45.22 psig @ 4218.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.23

End Date:

2013.11.24

Last Calib.: 2013.11.24

Start Time: 17:52:02

End Time:

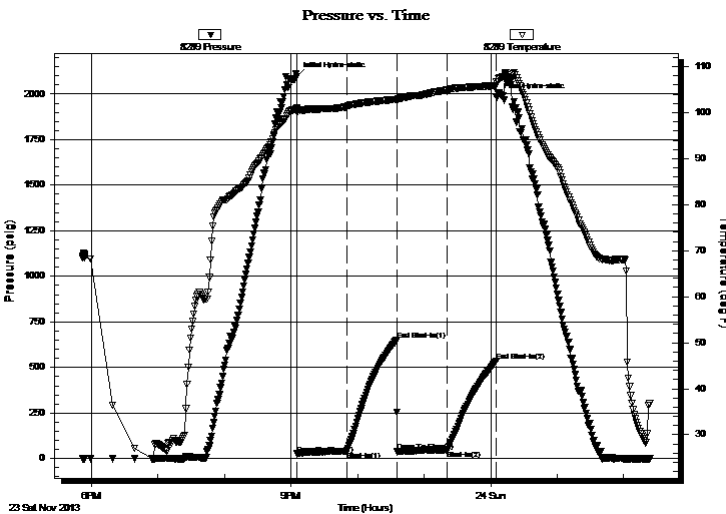
02:24:00

Time On Btm: 2013.11.23 @ 21:05:15

Time Off Btm: 2013.11.24 @ 00:05:15

TEST COMMENT: 45-IFP- Surface Blow Building to 4 1/2"  
 45-ISIP- No Blow  
 45-FFP- Surface Blow Building to 1 1/2"  
 45-FSIP- No Blow

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2097.85         | 100.98       | Initial Hydro-static |
| 1           | 26.03           | 100.13       | Open To Flow (1)     |
| 45          | 39.79           | 101.33       | Shut-In(1)           |
| 90          | 650.72          | 102.89       | End Shut-In(1)       |
| 91          | 41.45           | 102.69       | Open To Flow (2)     |
| 136         | 45.22           | 104.94       | Shut-In(2)           |
| 180         | 534.71          | 105.84       | End Shut-In(2)       |
| 180         | 1981.54         | 106.65       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 60.00       | SOCM 1%o 99%m | 0.57         |
|             |               |              |
|             |               |              |
|             |               |              |
|             |               |              |

\* 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: Jason Alm

**21-18s-22w Ness, KS**  
**LJ Unit#1**  
Job Ticket: 55792      **DST#: 2**  
Test Start: 2013.11.23 @ 17:52:00

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4180.00 ft | Diameter: 3.80 inches | Volume: 58.63 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.75 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | <u>Total Volume: 58.78 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 21.00 ft           |                       |                                | String Weight: Initial 61000.00 lb |
| Depth to Top Packer:      | 4217.00 ft         |                       |                                | Final 61000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 87.00 ft           |                       |                                |                                    |
| Tool Length:              | 115.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

**Tool Description**

**Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

|                 |       |      |         |         |                                    |
|-----------------|-------|------|---------|---------|------------------------------------|
| Change Over Sub | 1.00  |      |         | 4190.00 |                                    |
| Shut In Tool    | 5.00  |      |         | 4195.00 |                                    |
| Hydraulic tool  | 5.00  |      |         | 4200.00 |                                    |
| Jars            | 5.00  |      |         | 4205.00 |                                    |
| Safety Joint    | 2.00  |      |         | 4207.00 |                                    |
| Packer          | 5.00  |      |         | 4212.00 | 28.00      Bottom Of Top Packer    |
| Packer          | 5.00  |      |         | 4217.00 |                                    |
| Stubb           | 1.00  |      |         | 4218.00 |                                    |
| Recorder        | 0.00  | 8789 | Inside  | 4218.00 |                                    |
| Recorder        | 0.00  | 8289 | Outside | 4218.00 |                                    |
| Perforations    | 18.00 |      |         | 4236.00 |                                    |
| Change Over Sub | 1.00  |      |         | 4237.00 |                                    |
| Blank Spacing   | 63.00 |      |         | 4300.00 |                                    |
| Change Over Sub | 1.00  |      |         | 4301.00 |                                    |
| Bullnose        | 3.00  |      |         | 4304.00 | 87.00      Bottom Packers & Anchor |

**Total Tool Length: 115.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**21-18s-22w Ness,KS**  
**LJ Unit#1**  
Job Ticket: 55792      **DST#: 2**  
Test Start: 2013.11.23 @ 17:52:00

## 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: 61.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 9.56 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 8000.00 ppm            |                            |                 |         |
| Filter Cake: 1.00 inches         |                            |                 |         |

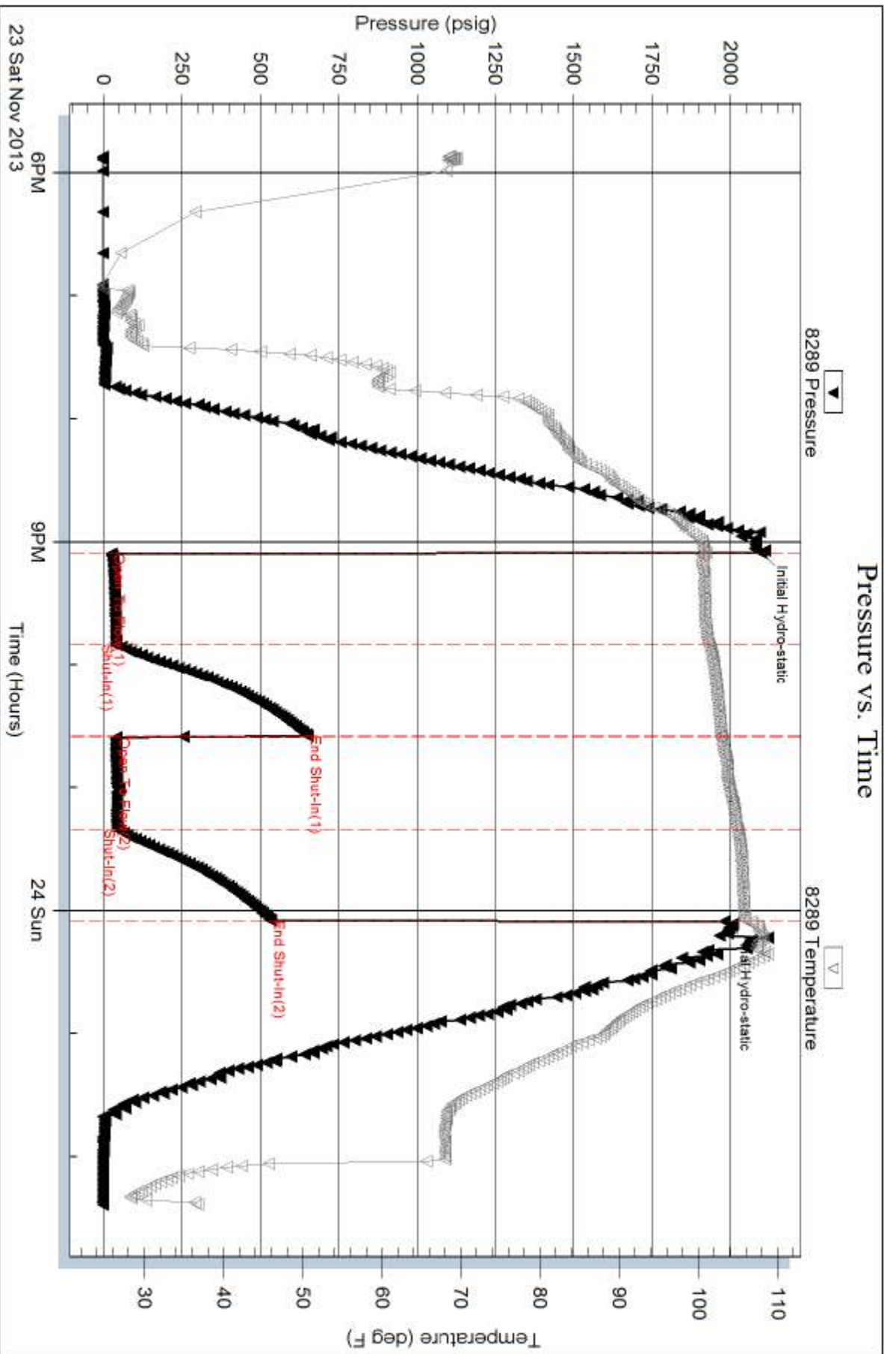
## Recovery Information

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 60.00        | SOCM 1%o 99%m | 0.568         |

Total Length: 60.00 ft      Total Volume: 0.568 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





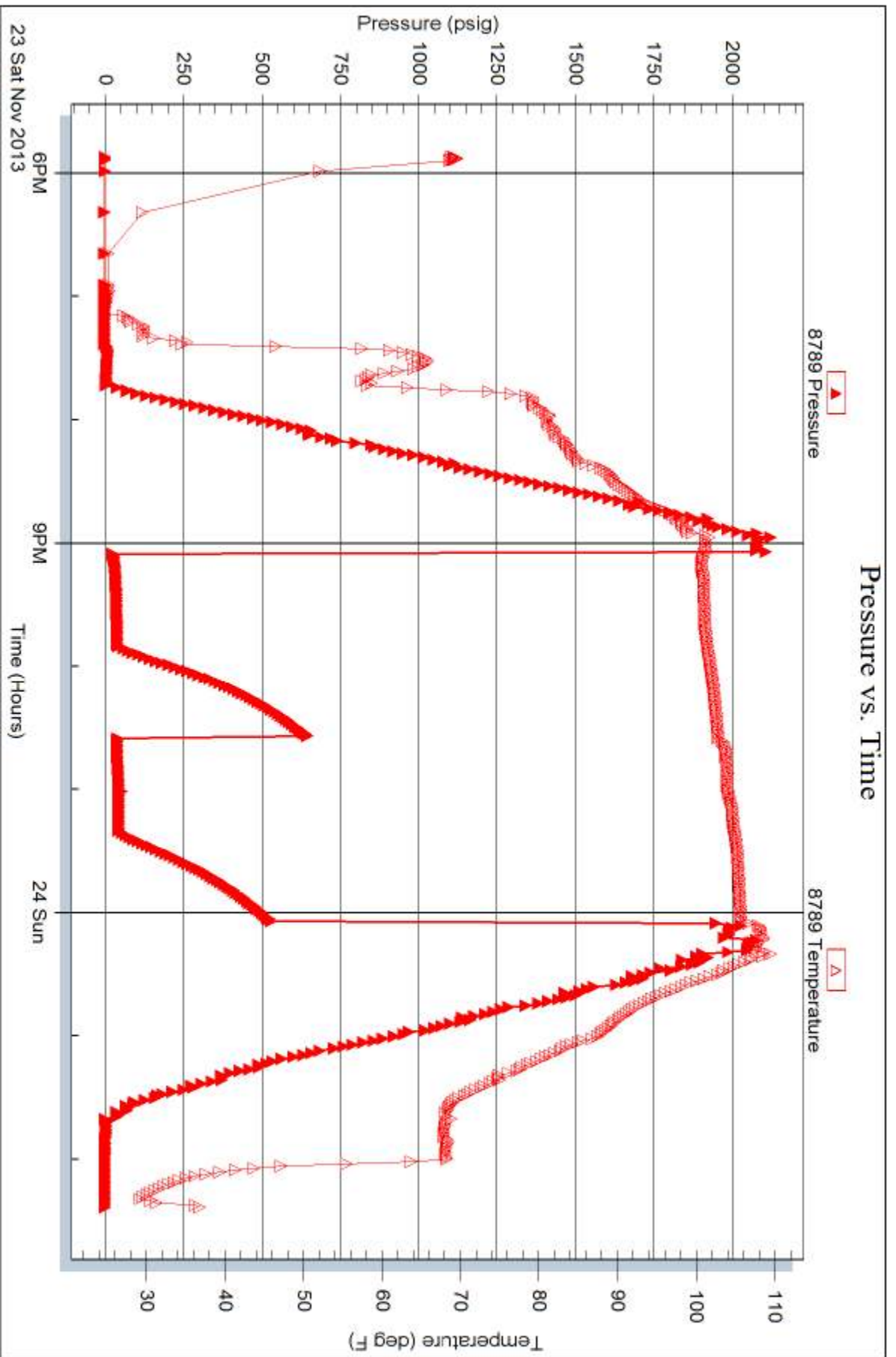
Serial #: 8789

Inside

American Warrior Inc

LJ Unit#1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55792

Printed: 2013.11.26 @ 10:41:44



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54375

Well Name & No. L.J. UNIT #1 Test No. 1 Date 11-22-13  
 Company AMERICAN WARRIOR INC Elevation 2182 KB 2174 GL  
 Address 3118 Cummings Rd, PO Box 399 Garden City, Ks 67846  
 Co. Rep / Geo. JASON ALM Rig DISCOVERY RIG 3  
 Location: Sec. 21 Twp. 18<sup>s</sup> Rge. 22<sup>w</sup> Co. NOSS State Ks

Interval Tested 4218-4285 Zone Tested MISS  
 Anchor Length 67 Drill Pipe Run 4282 Mud Wt. 9.1  
 Top Packer Depth 4213 Drill Collars Run 30 Vis 56  
 Bottom Packer Depth 4218 Wt. Pipe Run - WL 7.2  
 Total Depth 4285 Chlorides 4200 ppm System LCM TR  
 Blow Description IFP-WEAK Blow thru-out 1/2" Blow  
ISIP- NO Blow  
FFP- NO Blow

| Rec      | Feet of     | %gas     | %oil | %water    | %mud |
|----------|-------------|----------|------|-----------|------|
| <u>5</u> | <u>50CM</u> | <u>1</u> |      | <u>99</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 5 BHT 108 Gravity - API RW - @ - °F Chlorides - ppm

|                                     |  |  |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>2070</u> | <input checked="" type="checkbox"/> Test <u>1250</u>                   | T-On Location <u>0240</u>                    |
| (B) First Initial Flow <u>23</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>                    | T-Started <u>0605</u>                        |
| (C) First Final Flow <u>25</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75</u>             | T-Open <u>0835</u>                           |
| (D) Initial Shut-In <u>66</u>       | <input type="checkbox"/> Circ Sub                                      | T-Pulled <u>1000</u>                         |
| (E) Second Initial Flow <u>25</u>   | <input type="checkbox"/> Hourly Standby                                | T-Out <u>1241</u>                            |
| (F) Second Final Flow <u>26</u>     | <input checked="" type="checkbox"/> Mileage <u>115RT</u> <u>178.25</u> | Comments                                     |
| (G) Final Shut-In                   | <input type="checkbox"/> Sampler                                       |  |
| (H) Final Hydrostatic <u>2004</u>   | <input type="checkbox"/> Straddle                                      | <input type="checkbox"/> Ruined Shale Packer |
| Initial Open <u>30</u>              | <input type="checkbox"/> Shale Packer                                  | <input type="checkbox"/> Ruined Packer       |
| Initial Shut-In <u>30</u>           | <input type="checkbox"/> Extra Packer                                  | <input type="checkbox"/> Extra Copies        |
| Final Flow <u>25</u>                | <input type="checkbox"/> Extra Recorder                                | Sub Total <u>0</u>                           |
| Final Shut-In <u>pulled to 30</u>   | <input type="checkbox"/> Day Standby                                   | Total <u>1753.25</u>                         |
|                                     | <input type="checkbox"/> Accessibility                                 | MP/DST Disc't                                |
|                                     | Sub Total <u>1753.25</u>   |  |

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER *Thank you*

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. 55792

Well Name & No. LJ Unit #1 Test No. 2 Date 11-23-13  
 Company American Warrior Inc Elevation 2182 KB 2174 GL  
 Address 3118 Cummings Rd. Box 399 Garden City KS 67846  
 Co. Rep / Geo. Jason Alm Rig Discovery #3  
 Location: Sec. 21 Twp. 18<sup>s</sup> Rge. 22<sup>w</sup> Co. Ness State KS

Interval Tested 4217-4304 Zone Tested Miss - Warsaw  
 Anchor Length 87 Drill Pipe Run 4180 Mud Wt. 9.2  
 Top Packer Depth 4212 Drill Collars Run 30 Vis 61  
 Bottom Packer Depth 4217 Wt. Pipe Run 0 WL 9.6  
 Total Depth 4304 Chlorides 8000 ppm System LCM 1

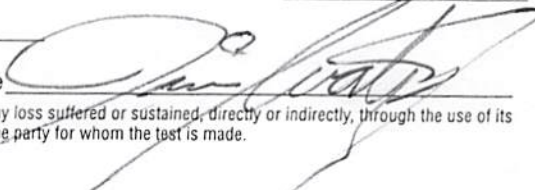
Blow Description IFP - Surface Blow Building to 4 1/2 in.  
ISIP - No Blow  
FFP - Surface Blow Building to 1 1/2 in.  
FSIP - No Blow

| Rec       | Feet of     | %gas     | %oil | %water    | %mud |
|-----------|-------------|----------|------|-----------|------|
| <u>60</u> | <u>50cm</u> | <u>1</u> |      | <u>99</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 60 BHT 106 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2097  Test 1250 T-On Location 17:49  
 (B) First Initial Flow 26  Jars 250 T-Started 17:52  
 (C) First Final Flow 39  Safety Joint 75 T-Open 21:06  
 (D) Initial Shut-In 650  Circ Sub \_\_\_\_\_ T-Pulled 00:06  
 (E) Second Initial Flow 41  Hourly Standby \_\_\_\_\_ T-Out 02:24  
 (F) Second Final Flow 45  Mileage X 2 356.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 534  Sampler \_\_\_\_\_ loaded tools 16:30 11/24  
 (H) Final Hydrostatic 1981  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 45  Day Standby \_\_\_\_\_ Total 1931.50  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1931.50

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.