

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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>Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No<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 |                  |                |              |                            |
|  |                  |                |              |                            |

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

|   |  |         |             |               |         |
|---|--|---------|-------------|---------------|---------|
| Date of first Production/Injection or Resumed Production/Injection: | 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 |

|   |   |                                    |
|---|---|------------------------------------|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<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> <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL:<br>Top Bottom |
|---|---|------------------------------------|

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record<br><i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |

|                |       |         |            |  |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: |  |
|----------------|-------|---------|------------|--|





CHARGE TO: American Warrior Inc  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 031230

PAGE 1 OF 2

|   |                                     |  |                                |                          |  |                       |                      |
|---|-------------------------------------|--|--------------------------------|--------------------------|--|-----------------------|----------------------|
| 1. SERVICE LOCATIONS<br><u>Ness City KS</u>   | WELL/PROJECT NO.<br><u># 7-28</u>   | LEASE<br><u>Lea "A"</u>                        | COUNTY/PARISH<br><u>Hearny</u> | STATE<br><u>KS</u>       | CITY<br><u>Lakin</u>                                       | DATE<br><u>2-6-18</u> | OWNER<br><u>Same</u> |
| 2. TICKET TYPE<br><input checked="" type="checkbox"/> SERVICE<br><input type="checkbox"/> SALES | CONTRACTOR<br><u>Duke Drilling</u>  |  | RIG NAME/NO.<br><u># 5</u>     | SHIPPED VIA<br><u>CT</u> | DELIVERED TO<br><u>Location</u>                            | ORDER NO.             |                      |
| 3. WELL TYPE<br><u>Oil</u>  | WELL CATEGORY<br><u>Development</u> | JOB PURPOSE<br><u>Cement 5 1/2" Longstring</u> |                                | WELL PERMIT NO.          | WELL LOCATION<br><u>Lakin - 7 1/2 S, 1/4 E, E 1/8 into</u> |                       |                      |
| 4. REFERRAL LOCATION  | INVOICE INSTRUCTIONS                |  |                                |                          |  |                       |                      |

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      |    | DESCRIPTION                   | QTY. |  | U/M      |  | UNIT PRICE | AMOUNT             |                    |
|-----------------|-------------------------------------|------------|------|----|-------------------------------|------|--|----------|--|------------|--------------------|--------------------|
|                 |                                     | LOC        | ACCT | DF |                               |      |  |          |  |            |                    |                    |
| 575             |                                     | 1          |      |    | MILEAGE                       |      |  |          |  | 120 mi     | 5 <sup>00</sup>    | 600 <sup>00</sup>  |
| 578             |                                     | 1          |      |    | Pump Change - Longstring      |      |  |          |  | 1 job      | 1300 <sup>00</sup> | 1300 <sup>00</sup> |
| 402             |                                     | 1          |      |    | Centralizer                   |      |  | 5 1/2 in |  | 10 ea      | 70 <sup>00</sup>   | 700 <sup>00</sup>  |
| 403             |                                     | 1          |      |    | Cement Basket                 |      |  | 5 1/2 in |  | 2 ea       | 275 <sup>00</sup>  | 550 <sup>00</sup>  |
| 406             |                                     | 1          |      |    | Latch Down Plug + Baffle      |      |  | 5 1/2 in |  | 1 ea       | 250 <sup>00</sup>  | 250 <sup>00</sup>  |
| 407             |                                     | 1          |      |    | Insert Flat Shoe w/ Auto Fill |      |  | 5 1/2 in |  | 1 ea       | 325 <sup>00</sup>  | 325 <sup>00</sup>  |

**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.

**X**

DATE SIGNED ~~2-6-18~~ 2-7-18 TIME SIGNED 0300  A.M.  P.M.

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

|  |  |           |          |               |                     |
|--|--|-----------|----------|---------------|---------------------|
| SURVEY   | AGREE  | UNDECIDED | DISAGREE | PAGE TOTAL #1 | 3725 <sup>00</sup>  |
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?                               |  |           |          | PAGE TOTAL #2 | 8064 <sup>10</sup>  |
| WE UNDERSTOOD AND MET YOUR NEEDS?  |  |           |          |               |                     |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY?                                 |  |           |          | <u>Hearny</u> | 11789 <sup>10</sup> |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? |  |           |          | TAX           | 589 <sup>49</sup>   |
| ARE YOU SATISFIED WITH OUR SERVICE?                                      | <input type="checkbox"/> YES <input type="checkbox"/> NO |           |          | TOTAL         | 12318 <sup>59</sup> |
| <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND                |  |           |          |               |                     |

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

SWIFT OPERATOR David Kuchin

APPROVAL Kenneth M. [Signature]

Thank You!





PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. # 31230

CUSTOMER American Warrior Inc. WELL Lee "A" #7-28 DATE 2-6-18 PAGE 2 OF 2

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      |    | TIME | DESCRIPTION     | QTY          |       | U/M          |            | UNIT PRICE       | AMOUNT             |                   |                    |
|-----------------|-------------------------------------|------------|------|----|------|-----------------|--------------|-------|--------------|------------|------------------|--------------------|-------------------|--------------------|
|                 |                                     | LOC        | ACCT | DF |      |                 | QTY          | U/M   | QTY          | U/M        |                  |                    |                   |                    |
| 325             |                                     | 1          |      |    |      | Standard Cement |              |       | 250          | skts       | 13 <sup>00</sup> | 3250 <sup>00</sup> |                   |                    |
| 279             |                                     | 1          |      |    |      | Bentonite Gel   | 2            | %     | 5            | skts       | 30 <sup>00</sup> | 150 <sup>00</sup>  |                   |                    |
| 283             |                                     | 1          |      |    |      | Sulf            | 10           | %     | 1350         | lbs        | 00 <sup>20</sup> | 270 <sup>00</sup>  |                   |                    |
| 292             |                                     | 1          |      |    |      | Halad 322       | 3/4          | %     | 200          | lbs        | 8 <sup>00</sup>  | 1600 <sup>00</sup> |                   |                    |
| 276             |                                     | 1          |      |    |      | Flocele         | 1/4          | lb    | 50           | lbs        | 2 <sup>50</sup>  | 125 <sup>00</sup>  |                   |                    |
| 290             |                                     | 1          |      |    |      | D-Air           |              |       | 3            | gal        | 42 <sup>00</sup> | 126 <sup>00</sup>  |                   |                    |
| 581             |                                     | 1          |      |    |      | Mud Flush       |              |       | 500          | gal        | 1 <sup>50</sup>  | 750 <sup>00</sup>  |                   |                    |
| 221             |                                     | 1          |      |    |      | Liquid BCL      |              |       | 2            | gal        | 25 <sup>00</sup> | 50 <sup>00</sup>   |                   |                    |
| 581             |                                     | 1          |      |    |      | SERVICE CHARGE  |              |       |              | CUBIC FEET | 250              | 1 <sup>75</sup>    | 437 <sup>50</sup> |                    |
| 583             |                                     | 1          |      |    |      | MILEAGE CHARGE  | TOTAL WEIGHT | 25600 | LOADED MILES | 120        | TON MILES        | 1536               | 00 <sup>85</sup>  | 1305 <sup>60</sup> |

CONTINUATION TOTAL 8064.10

JOB LOG

SWIFT Services, Inc.

DATE 2-6-18 PAGE NO. 1

CUSTOMER American Warrior WELL NO. #7-28 LEASE Lee "A" JOB TYPE 5 1/2" Longstring TICKET NO. #31230

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS  |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
|           |      |            |                    | T     | C | TUBING         | CASING |   |
|           | 1915 |            |                    |       |   |                |        | on location 5 1/2" 15.5"  |
|           |      |            |                    |       |   |                |        | RTD-5070' LTD-5068'<br>TP-5065' Set-5065'<br>SJ- #1 20.16<br>cont- #1 #2 #3 #4 #5 #7 #9 #11 #13 #15<br>Basket- #2 #16 |
|           | 2200 |            |                    |       |   |                |        | Start 5 1/2" 15.5" casing in well   |
| 2-7-18    | 0030 |            |                    |       |   |                |        | Drop ball Circulate   |
|           | 0120 | 6 1/2      | 12                 |       |   | ✓              | 400    | Pump 500 gal Mud Flush  |
|           |      | 6 1/2      | 20                 |       |   | ✓              | 400    | Pump 20 bbl HCL Flush   |
|           |      |            | 7 1/2-5            |       |   |                |        | Plug RH-MH (30-20)  |
|           | 0140 | 4 1/2      | 49 1/2             |       |   | ✓              |        | mix 200 sks standard @ 14.9 ppg   |
|           |      |            |                    |       |   |                |        | wash out Pump + lines<br>Release Latch Down Plug  |
|           | 0205 | 6 1/2      | ∅                  |       |   | ✓              | 100    | Start Displacement  |
|           |      | 6 1/2      | 80                 |       |   | ✓              | 400    | Lift Pressure   |
|           |      | 6 1/2      | <del>119</del> 119 |       |   | ✓              | 1100   | Max lift Pressure   |
|           | 0230 | 6 1/2      | 120                |       |   | ✓              | 2000   | Land Latch Down Plug  |
|           |      |            |                    |       |   |                |        | Release Pressure * Plug Hold *  |
|           |      |            |                    |       |   |                |        | wash up truck   |
|           | 0300 |            |                    |       |   |                |        | Job Complete  |
|           |      |            |                    |       |   |                |        | Thank You<br>Dawe Preston Kirby   |





PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. # 31198

CUSTOMER American Warrior  
WELL Lee "A" # 7-28  
DATE 1-29-18  
PAGE 2 OF 2

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      |    | TIME | DESCRIPTION    | QTY          |              | U/M       |     | UNIT PRICE | AMOUNT   |
|-----------------|-------------------------------------|------------|------|----|------|----------------|--------------|--------------|-----------|-----|------------|----------|
|                 |                                     | LOC        | ACCT | DF |      |                | QTY          | U/M          | QTY       | U/M |            |          |
| 330             |                                     | 1          |      |    |      | SMD Cement     |              |              | 700       | sks | 15.75      | 11025.00 |
| 276             |                                     | 1          |      |    |      | Floacle        | 1/4          | lb           | 175       | lbs | 2.25       | 393.75   |
| 290             |                                     | 1          |      |    |      | D-Air          |              |              | 7         | gal | 42.00      | 294.00   |
| 281             |                                     | 1          |      |    |      | Mud Flush      |              |              | 500       | gal | 1.25       | 625.00   |
| 228             |                                     | 1          |      |    |      | Liquid KCL     |              |              | 2         | gal | 25.00      | 50.00    |
| 581             |                                     | 1          |      |    |      | SERVICE CHARGE |              |              |           |     | 1.50       | 1050.00  |
| 583             |                                     |            |      |    |      | MILEAGE CHARGE | TOTAL WEIGHT | LOADED MILES | TON MILES |     | 00.75      | 3133.50  |
|                 |                                     |            |      |    |      |                | 69625        | 120          | 4178      |     |            |          |

CONTINUATION TOTAL 16571.25



JOB LOG

SWIFT Services, Inc.

DATE 1-29-18 PAGE NO. 1

CUSTOMER American Warriors WELL NO. # 7-28 LEASE Lee "A" JOB TYPE Surface Pipe TICKET NO. # 31198

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS                                    |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
|           |      |            |                    | T     | C | TUBING         | CASING |   |
|           | 0700 |            |                    |       |   |                |        | on location 8 5/8" 23"  |
|           |      |            |                    |       |   |                |        | RTD- 1845' TP- 1831'<br>SJ- 42.22 Basket - "16" 24<br>Turbos - "1" 15" 30 |
|           | 1000 |            |                    |       |   |                |        | Start 8 5/8" 23" casing in well   |
|           | 1310 |            |                    |       |   |                |        | Drop Ball circulate   |
|           | 1350 | 6 1/2      | 12                 |       | ✓ | 300            |        | Pump 500 gal Mud Flush  |
|           |      | 6 1/2      | 20                 |       | ✓ | 300            |        | Pump 20 bbl HCL Flush   |
|           | 1355 | 5          | 110                |       | ✓ | 200            |        | mix 200 sks SMD 1/4" Flo @ 11.2 pp9                                       |
|           |      | 5          | 115                |       | ✓ | 200            |        | mix 300 sks SMD 1/4" Flo @ 12.5 pp9                                       |
|           |      | 5          | 31                 |       | ✓ | 100            |        | mix 100 sks SMD 1/4" Flo @ 13.5 pp9                                       |
|           |      | 5          | 26                 |       | ✓ | 100            |        | mix 100 sks SMD 1/4" Flo @ 14.5 pp9                                       |
|           |      |            |                    |       |   |                |        | wash out Pump + lines<br>Release Top Plug                                 |
|           | 1505 | 6 1/2      | ∅                  |       | ✓ | 100            |        | Start Displacement  |
|           |      | 6          | 60                 |       | ✓ | 200            |        | lift Pressure   |
|           |      | 5 1/2      | 94                 |       | ✓ | 500            |        | circulate cement to surface *35 sks*                                      |
|           |      | 4 1/2      | 113                |       | ✓ | 600            |        | max lift Pressure   |
|           | 1530 | 3 1/2      | 114.5              |       | ✓ | 750            |        | Land top Plug   |
|           |      |            |                    |       |   |                |        | Release Pressure *Float Hold*   |
|           |      |            |                    |       |   |                |        | wash up Truck   |
|           | 1600 |            |                    |       |   |                |        | Job Complete  |
|           |      |            |                    |       |   |                |        | Thank You<br>Dave Preston Kirby Isaac                                     |



## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City KS 67846

ATTN: Luke Thompson

**Lee A #7-28**

**28-25s-36w Kearny, KS**

Start Date: 2018.02.04 @ 09:28:00

End Date: 2018.02.04 @ 16:52:50

Job Ticket #: 63552                      DST #: 1

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

Printed: 2018.02.06 @ 15:34:59



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**28-25s-36w Kearny, KS**

PO Box 399  
Garden City KS 67846

**Lee A #7-28**

Job Ticket: 63552

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2018.02.04 @ 09:28:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:32:50

Time Test Ended: 16:52:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 4770.00 ft (KB) To 4871.00 ft (KB) (TVD)**

Reference Elevations: 3061.00 ft (KB)

Total Depth: 4871.00 ft (KB) (TVD)

3050.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6772**

**Inside**

Press@RunDepth: 39.00 psig @ 4771.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.02.04

End Date:

2018.02.04

Last Calib.:

2018.02.04

Start Time: 09:28:01

End Time:

16:52:50

Time On Btm:

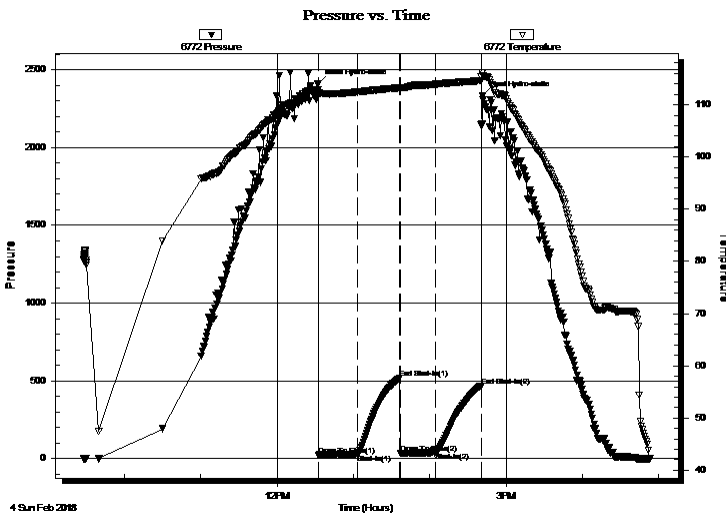
2018.02.04 @ 12:32:30

Time Off Btm:

2018.02.04 @ 14:41:20

**TEST COMMENT:** IF: Weak surface blow  
IS: No blow back  
FF: Weak surface blow, died 20 min.  
FS: No blow back

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2410.03         | 112.84       | Initial Hydro-static |
| 1           | 23.13           | 112.32       | Open To Flow (1)     |
| 31          | 29.47           | 112.46       | Shut-In(1)           |
| 64          | 519.53          | 113.25       | End Shut-In(1)       |
| 65          | 33.14           | 113.02       | Open To Flow (2)     |
| 93          | 39.00           | 113.92       | Shut-In(2)           |
| 128         | 464.47          | 114.60       | End Shut-In(2)       |
| 129         | 2330.44         | 116.07       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00       | 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.

**28-25s-36w Kearny, KS**

PO Box 399  
Garden City KS 67846

**Lee A #7-28**

Job Ticket: 63552

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2018.02.04 @ 09:28:00

## Tool Information

|                           |                    |                       |                         |                                    |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe:               | Length: 4518.00 ft | Diameter: 3.80 inches | Volume: 63.38 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: 229.00 ft  | Diameter: 2.25 inches | Volume: 1.13 bbl        | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | Total Volume: 64.51 bbl | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 5.00 ft            |                       |                         | String Weight: Initial 75000.00 lb |
| Depth to Top Packer:      | 4770.00 ft         |                       |                         | Final 75000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                         |                                    |
| Interval between Packers: | 101.00 ft          |                       |                         |                                    |
| Tool Length:              | 129.00 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        |            |          | 4743.00    |                                |
| Shut In Tool     | 5.00        |            |          | 4748.00    |                                |
| Hydraulic tool   | 5.00        |            |          | 4753.00    |                                |
| Jars             | 5.00        |            |          | 4758.00    |                                |
| Safety Joint     | 3.00        |            |          | 4761.00    |                                |
| Packer           | 5.00        |            |          | 4766.00    | 28.00 Bottom Of Top Packer     |
| Packer           | 4.00        |            |          | 4770.00    |                                |
| Stubb            | 1.00        |            |          | 4771.00    |                                |
| Recorder         | 0.00        | 6769       | Outside  | 4771.00    |                                |
| Recorder         | 0.00        | 6772       | Inside   | 4771.00    |                                |
| Perforations     | 30.00       |            |          | 4801.00    |                                |
| Change Over Sub  | 1.00        |            |          | 4802.00    |                                |
| Drill Pipe       | 63.00       |            |          | 4865.00    |                                |
| Change Over Sub  | 1.00        |            |          | 4866.00    |                                |
| Bullnose         | 5.00        |            |          | 4871.00    | 101.00 Bottom Packers & Anchor |

**Total Tool Length: 129.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**28-25s-36w Kearny, KS**

PO Box 399  
Garden City KS 67846

**Lee A #7-28**

Job Ticket: 63552

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2018.02.04 @ 09:28:00

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbbl |
|--------------|-------------|----------------|
| 15.00        | 100%M       | 0.074          |

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

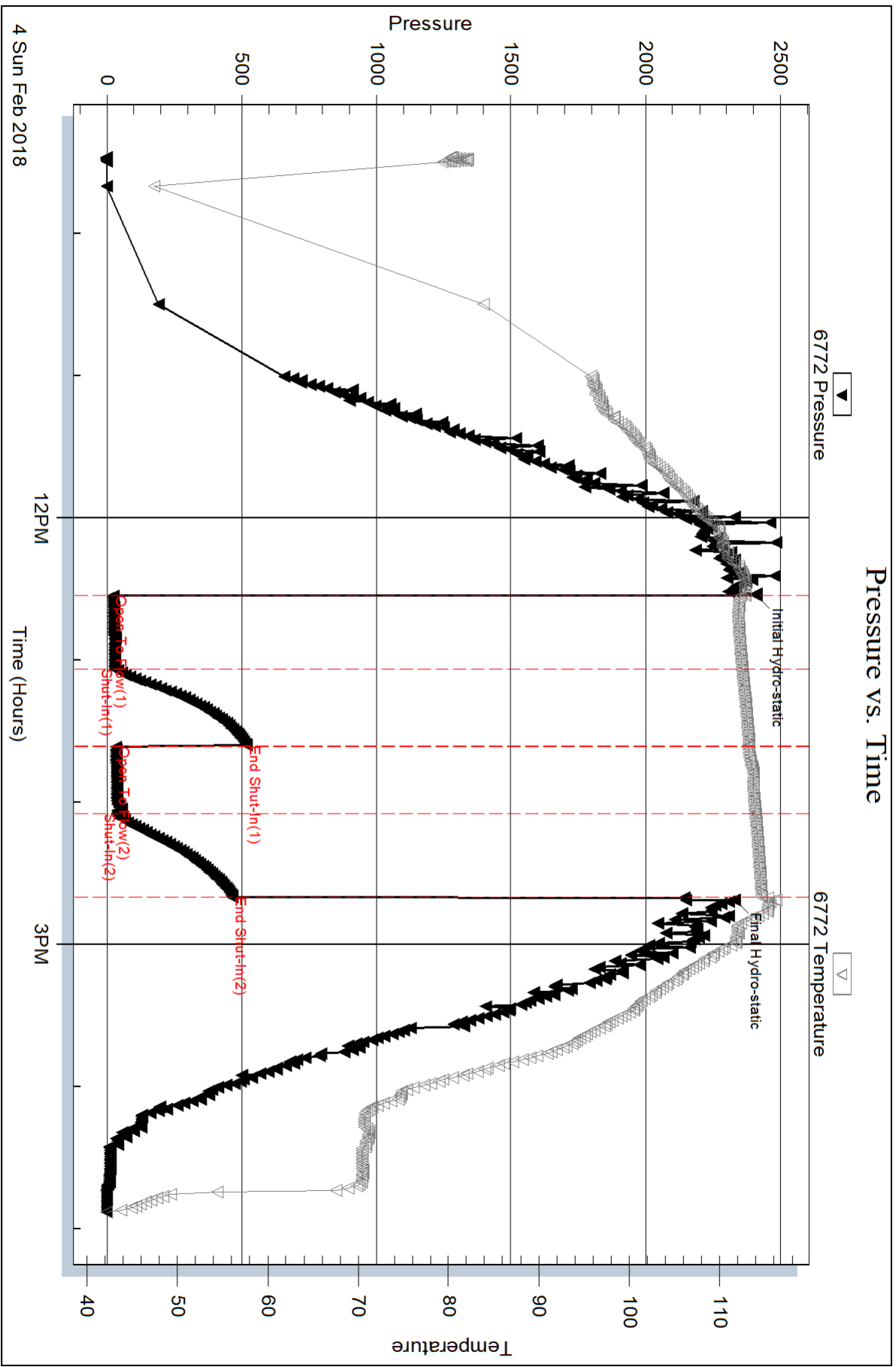
Num Gas Bombs: 0

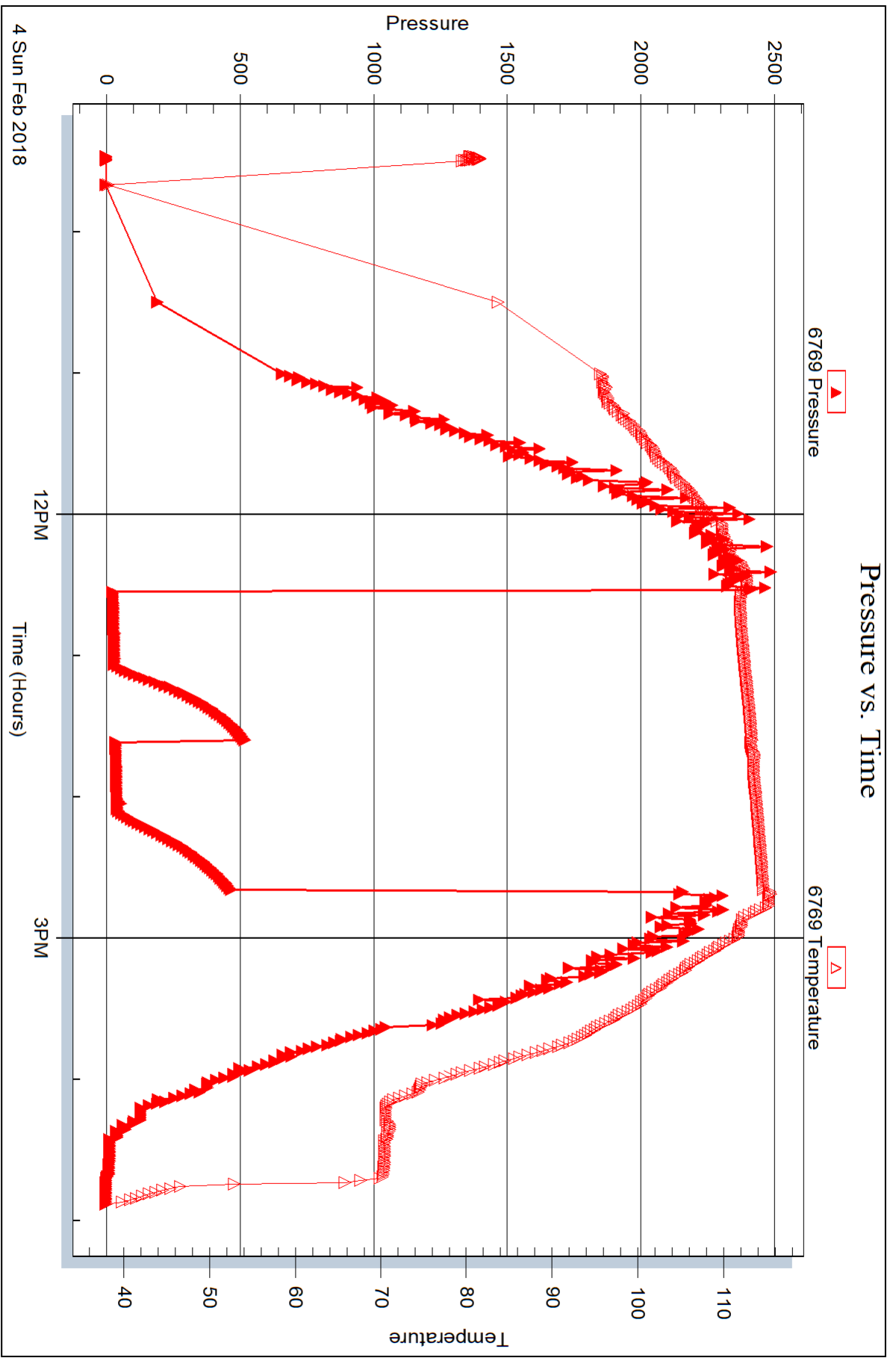
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

PO Box 399  
Garden City KS 67846

ATTN: Luke Thompson

**Lee A #7-28**

**28-25s-36w Kearny, KS**

Start Date: 2018.02.05 @ 12:05:42

End Date: 2018.02.05 @ 17:55:12

Job Ticket #: 64297                      DST #: 2

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

Printed: 2018.02.06 @ 15:30:36



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**28-25s-36w Kearny, KS**

PO Box 399  
Garden City KS 67846

**Lee A #7-28**

Job Ticket: 64297

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2018.02.05 @ 12:05:42

## GENERAL INFORMATION:

Formation: **St. Louis**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 14:38:12  
 Tester: Brandon Turley  
 Time Test Ended: 17:55:12  
 Unit No: 79  
 Interval: **4940.00 ft (KB) To 5020.00 ft (KB) (TVD)**  
 Reference Elevations: 3061.00 ft (KB)  
 Total Depth: 5020.00 ft (KB) (TVD)  
 3050.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 11.00 ft

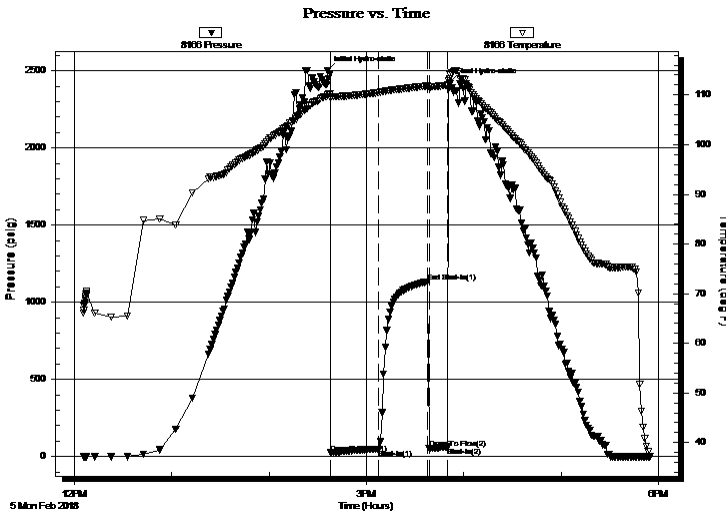
## Serial #: 8166

Outside

Press@RunDepth: 48.39 psig @ 4941.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.02.05 End Date: 2018.02.05 Last Calib.: 2018.02.05  
 Start Time: 12:05:47 End Time: 17:55:11 Time On Btm: 2018.02.05 @ 14:36:12  
 Time Off Btm: 2018.02.05 @ 15:51:12

TEST COMMENT: IF: 1/4" blow died in 14 min.  
 IS: No return.  
 FF: No blow.  
 FS: Pulled tool.

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2502.27         | 110.04       | Initial Hydro-static |
| 2           | 23.76           | 109.51       | Open To Flow (1)     |
| 32          | 48.39           | 110.48       | Shut-In(1)           |
| 62          | 1132.58         | 111.79       | End Shut-In(1)       |
| 63          | 52.23           | 111.57       | Open To Flow (2)     |
| 74          | 62.89           | 111.98       | Shut-In(2)           |
| 75          | 2423.15         | 113.20       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 40.00       | mud oil spot 100% m | 0.20         |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |

\* 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.

**28-25s-36w Kearny, KS**

PO Box 399  
Garden City KS 67846

**Lee A #7-28**

Job Ticket: 64297

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2018.02.05 @ 12:05:42

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4706.00 ft | Diameter: 3.80 inches | Volume: 66.01 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: 30000.00 lb  |
| Drill Collar:             | Length: 229.00 ft  | Diameter: 2.25 inches | Volume: 1.13 bbl               | Weight to Pull Loose: 110000.0 lb  |
|                           |                    |                       | <u>Total Volume: 67.14 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                       |                                | String Weight: Initial 82000.00 lb |
| Depth to Top Packer:      | 4940.00 ft         |                       |                                | Final 82000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 80.00 ft           |                       |                                |                                    |
| Tool Length:              | 107.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

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

|                 |       |      |         |         |                               |
|-----------------|-------|------|---------|---------|-------------------------------|
| Stubb           | 1.00  |      |         | 4914.00 |                               |
| Shut In Tool    | 5.00  |      |         | 4919.00 |                               |
| Hydraulic tool  | 5.00  |      |         | 4924.00 |                               |
| Jars            | 5.00  |      |         | 4929.00 |                               |
| Safety Joint    | 2.00  |      |         | 4931.00 |                               |
| Packer          | 5.00  |      |         | 4936.00 | 27.00 Bottom Of Top Packer    |
| Packer          | 4.00  |      |         | 4940.00 |                               |
| Stubb           | 1.00  |      |         | 4941.00 |                               |
| Recorder        | 0.00  | 6651 | Inside  | 4941.00 |                               |
| Recorder        | 0.00  | 8166 | Outside | 4941.00 |                               |
| Perforations    | 9.00  |      |         | 4950.00 |                               |
| Change Over Sub | 1.00  |      |         | 4951.00 |                               |
| Drill Pipe      | 63.00 |      |         | 5014.00 |                               |
| Change Over Sub | 1.00  |      |         | 5015.00 |                               |
| Bullnose        | 5.00  |      |         | 5020.00 | 80.00 Bottom Packers & Anchor |

**Total Tool Length: 107.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**28-25s-36w Kearny, KS**

PO Box 399  
Garden City KS 67846

**Lee A #7-28**

Job Ticket: 64297

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2018.02.05 @ 12:05:42

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 40.00        | mud oil spot 100%m | 0.197         |

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

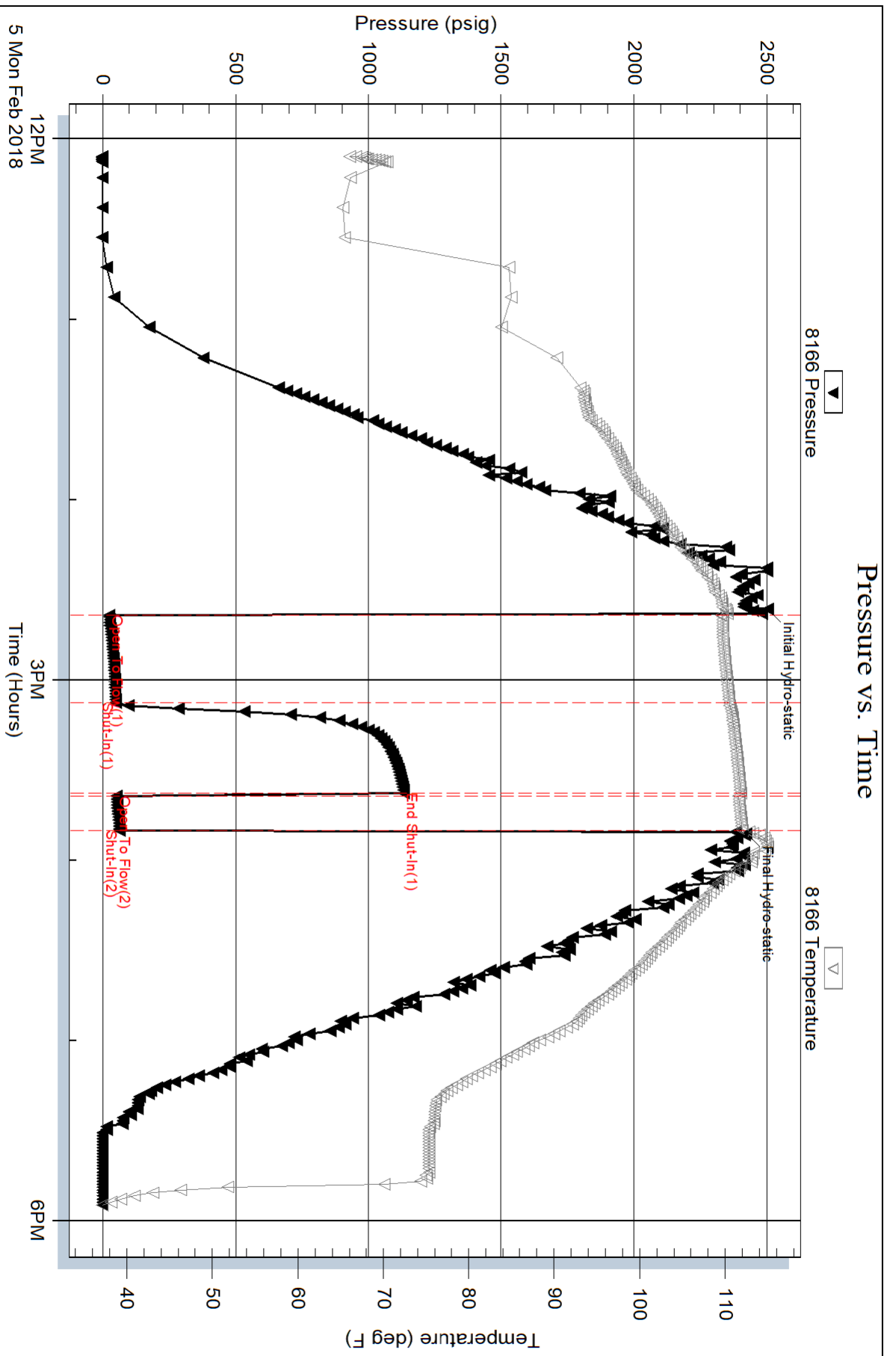
Num Gas Bombs: 0

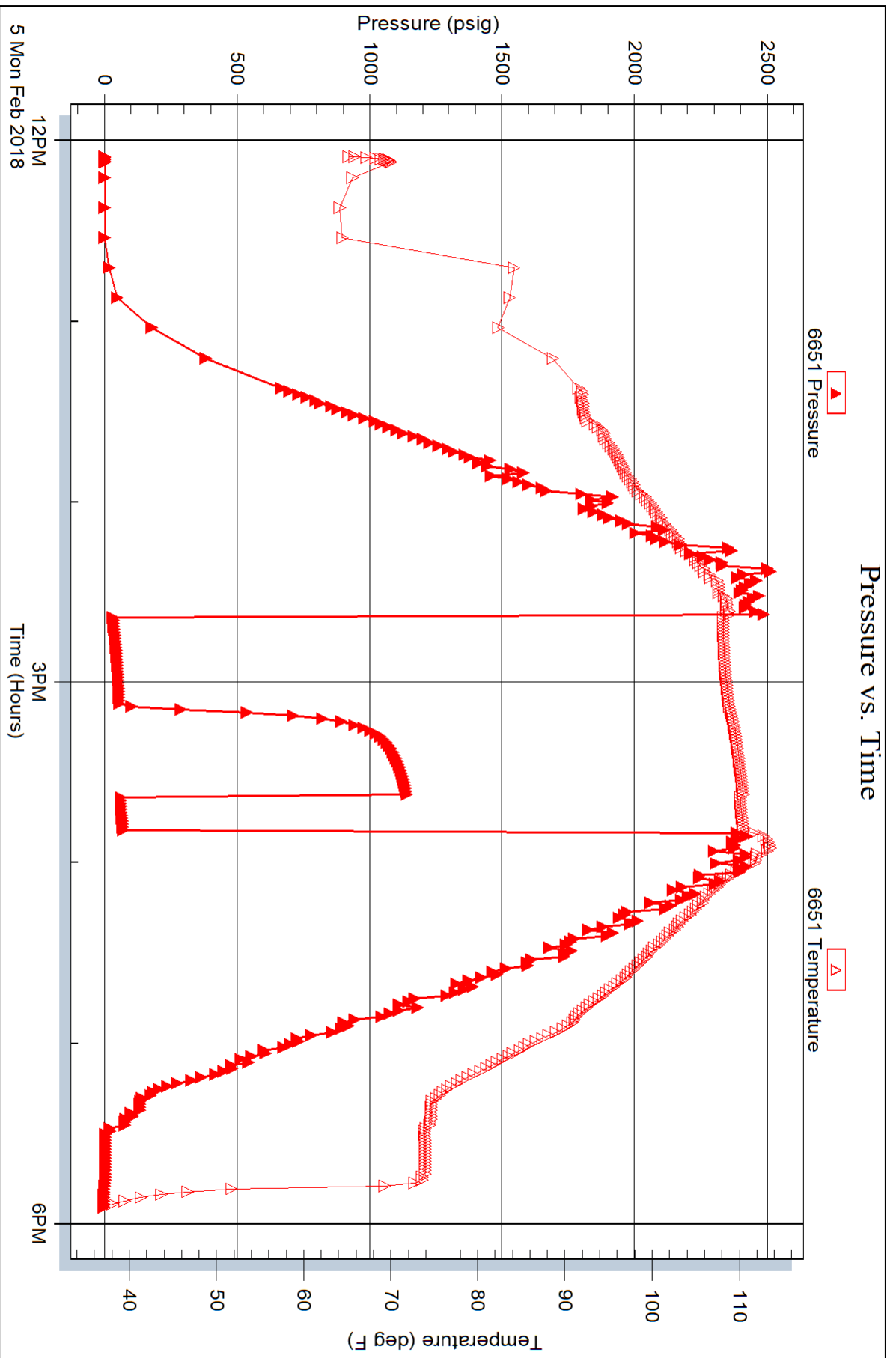
Serial #:

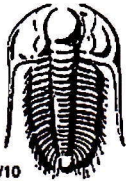
Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63552**

Well Name & No. Lee A 7-28 Test No. 1 Date 1-4-18  
 Company American Warrior, LLC Elevation 3061 KB 3050 GL  
 Address P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Luke Thompson 785-493-1254 Rig Duke S  
 Location: Sec. 28 Twp 25 Rge. 36 Co. Kearny State KS

Interval Tested 4770 - 4871 Zone Tested Marrow  
 Anchor Length 101 Drill Pipe Run 4518 Mud Wt. 9.4  
 Top Packer Depth 4765 Drill Collars Run 229 Vis 60  
 Bottom Packer Depth 4770 Wt. Pipe Run N.A. WL 6.4  
 Total Depth 4871 Chlorides 1000 ppm System LCM 3#

Blow Description IF: Weak surface blow  
IST: No blow back  
FF: Weak surface blow, dried 20 min.  
FSL: No blow back

| Rec       | Feet of    | %gas | %oil | %water | %mud       |
|-----------|------------|------|------|--------|------------|
| <u>15</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 15 BHT 114 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2410  Test CMV 1150 T-On Location 0815  
 (B) First Initial Flow 23  Jars 250 T-Started 0930  
 (C) First Final Flow 29  Safety Joint 75 T-Open 1235  
 (D) Initial Shut-In 520  Circ Sub \_\_\_\_\_ T-Pulled 1435  
 (E) Second Initial Flow 33  Hourly Standby \_\_\_\_\_ T-Out 1700  
 (F) Second Final Flow 39  Mileage x120 90 Comments #6772 (in)  
 (G) Final Shut-In 464  Sampler \_\_\_\_\_ #6769 (outside)  
 (H) Final Hydrostatic 2330  Straddle \_\_\_\_\_ Det on @ 0928

Initial Open ~~43~~ 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Packer \_\_\_\_\_  
 Final Shut-In 30  Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1565  
 Sub Total 1565 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Chris Higman

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. **64297**

Well Name & No. Lee A 7-28 Test No. 2 Date 2-5-18  
 Company American warrior Elevation 3061 KB 3050 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Lake Thompson Rig Pake 5  
 Location: Sec. 28 Twp. 25<sup>S</sup> Rge. 36<sup>W</sup> Co. Kerny State KS

Interval Tested 4940 5020 Zone Tested St. Louis  
 Anchor Length 80 Drill Pipe Run 4706 Mud Wt. 9.4  
 Top Packer Depth 4935 Drill Collars Run 229 Vis 55  
 Bottom Packer Depth 4940 Wt. Pipe Run — WL 6.4  
 Total Depth 5020 Chlorides 1200 ppm System LCM 4

Blow Description IF: 1/4 blow died in 14 min.  
F5: NO return.  
FF: NO blow.  
F5: Pulled tool,

| Rec       | Feet of              | %gas | %oil | %water     | %mud |
|-----------|----------------------|------|------|------------|------|
| <u>40</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       | Feet of              | %gas | %oil | %water     | %mud |

Rec Total 40 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2502  Test 1250  
 (B) First Initial Flow 23  Jars 250  
 (C) First Final Flow 48  Safety Joint 75  
 (D) Initial Shut-In 1132  Circ Sub NIL  
 (E) Second Initial Flow 52  Hourly Standby \_\_\_\_\_  
 (F) Second Final Flow 62  Mileage 130 90  
 (G) Final Shut-In —  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2423  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1665

T-On Location 11:00  
 T-Started 12:05  
 T-Open 14:37  
 T-Pulled 15:47  
 T-Out 17:58  
 Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1665  
 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.



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**28/25/36 Kearny, KS**

P.O. Box 399  
Garden City KS 67846

**Lee A 7-28**

ATTN: Luke Thompson

Job Ticket: 63552

**DST#: 1**

Test Start: 2018.02.04 @ 09:28:00

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 3061.00 ft (KB)

Time Tool Opened: 12:32:50

Time Test Ended: 16:52:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 4770.00 ft (KB) To 4871.00 ft (KB) (TVD)**

Reference Elevations: 3061.00 ft (KB)

Total Depth: 4871.00 ft (KB) (TVD)

3050.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6772 Inside**

Press@RunDepth: 39.00 psig @ 4771.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.02.04

End Date:

2018.02.04

Last Calib.: 1899.12.30

Start Time: 09:28:01

End Time:

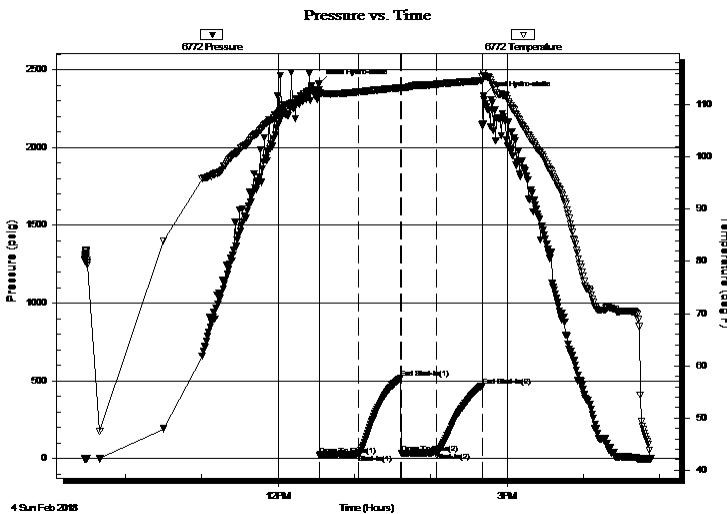
16:52:50

Time On Btm: 2018.02.04 @ 12:32:30

Time Off Btm: 2018.02.04 @ 14:41:20

**TEST COMMENT:** IF: Weak surface blow  
IS: No blow back  
FF: Weak surface blow, died 20 min.  
FS: No blow back

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2410.03         | 112.84       | Initial Hydro-static |
| 1           | 23.13           | 112.32       | Open To Flow (1)     |
| 31          | 29.47           | 112.46       | Shut-In(1)           |
| 64          | 519.53          | 113.25       | End Shut-In(1)       |
| 65          | 33.14           | 113.02       | Open To Flow (2)     |
| 93          | 39.00           | 113.92       | Shut-In(2)           |
| 128         | 464.47          | 114.60       | End Shut-In(2)       |
| 129         | 2330.44         | 116.07       | Final Hydro-static   |

## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00       | 100%M       | 0.07         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**28/25/36 Kearny, KS**

P.O. Box 399  
Garden City KS 67846

**Lee A 7-28**

Job Ticket: 63552

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2018.02.04 @ 09:28:00

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 15.00        | 100%M       | 0.074         |

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

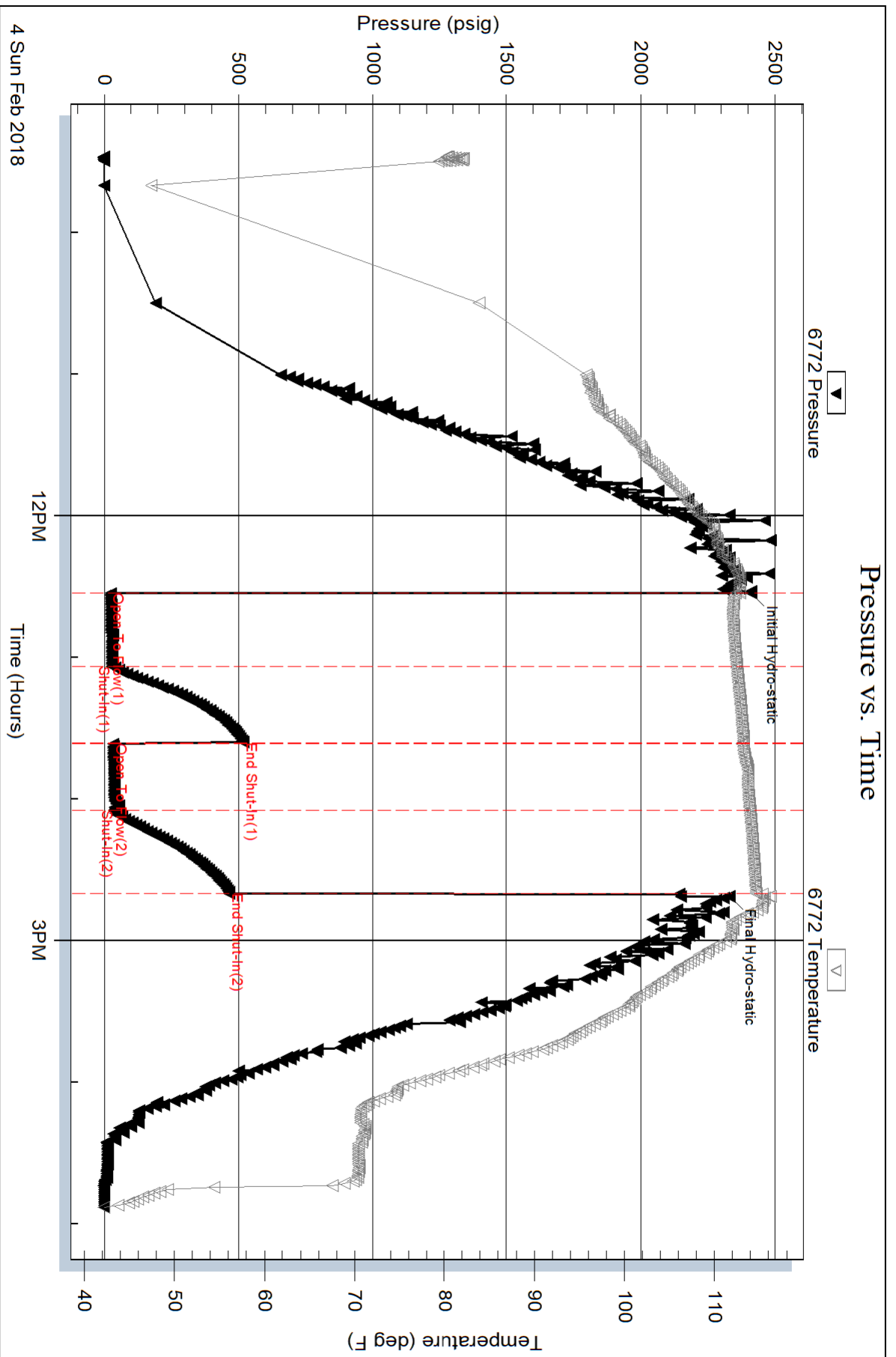
Serial #:

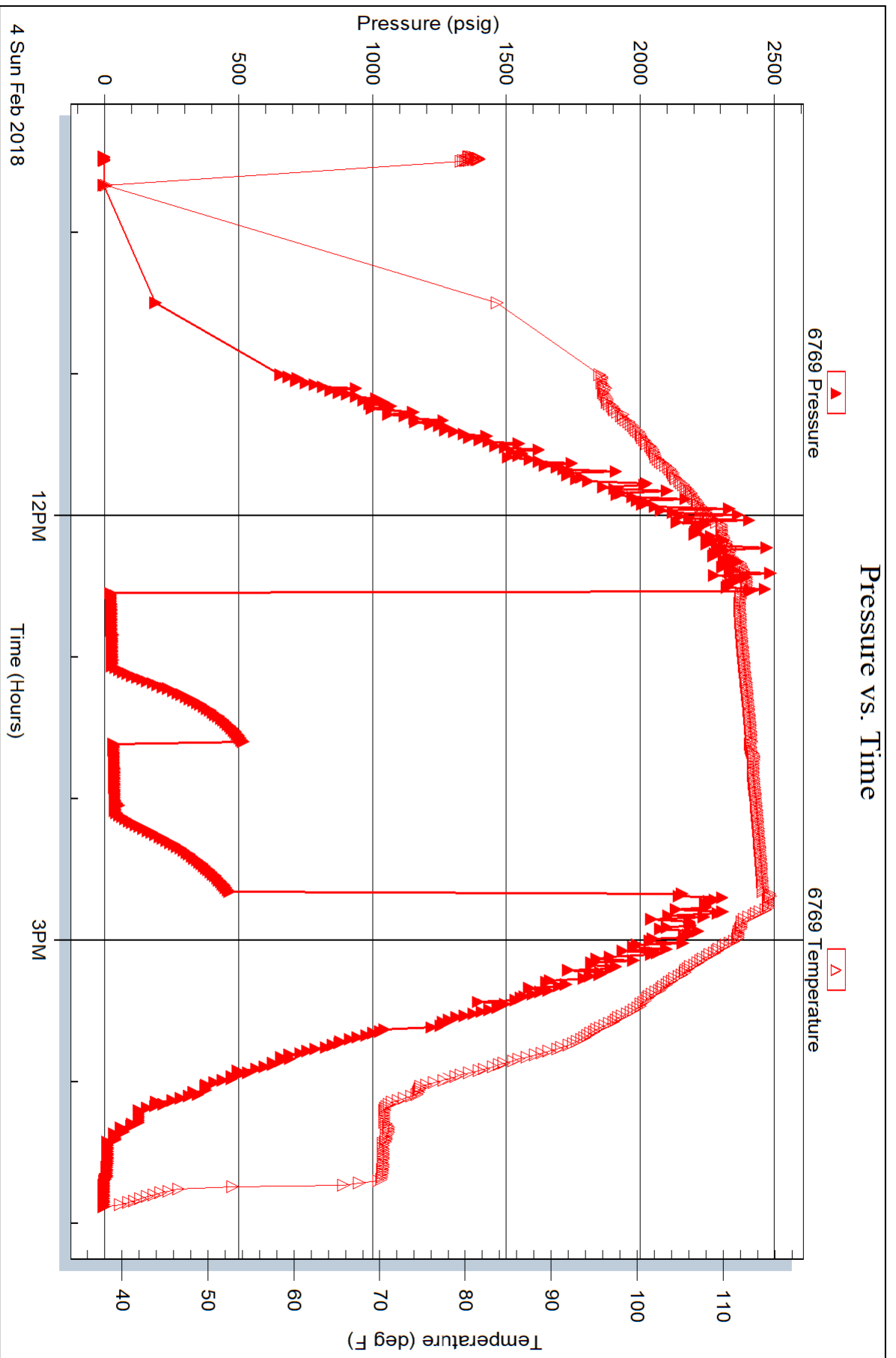
Laboratory Name:

Laboratory Location:

Recovery Comments:









**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior, Inc.

**28/25/36 Kearny, KS**

P.O. Box 399  
Garden City KS 67846

**Lee A 7-28**

Job Ticket: 64297

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2018.02.05 @ 12:05:42

## GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: 3061.00 ft (KB)

Time Tool Opened: 14:38:12

Time Test Ended: 17:55:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4940.00 ft (KB) To 5020.00 ft (KB) (TVD)**

Reference Elevations: 3061.00 ft (KB)

Total Depth: 5020.00 ft (KB) (TVD)

3050.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8166 Outside**

Press@RunDepth: 48.39 psig @ 4941.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.02.05

End Date:

2018.02.05

Last Calib.:

2018.02.05

Start Time:

12:05:47

End Time:

17:55:11

Time On Btm:

2018.02.05 @ 14:36:12

Time Off Btm:

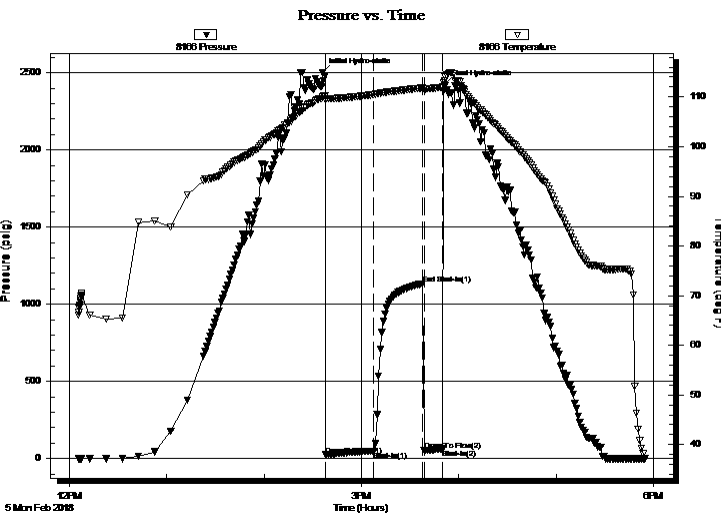
2018.02.05 @ 15:51:12

TEST COMMENT: IF: 1/4 blow died in 14 min.

IS: No return.

FF: No blow.

FS: Pulled tool.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2502.27         | 110.04       | Initial Hydro-static |
| 2           | 23.76           | 109.51       | Open To Flow (1)     |
| 32          | 48.39           | 110.48       | Shut-In(1)           |
| 62          | 1132.58         | 111.79       | End Shut-In(1)       |
| 63          | 52.23           | 111.57       | Open To Flow (2)     |
| 74          | 62.89           | 111.98       | Shut-In(2)           |
| 75          | 2423.15         | 113.20       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 40.00       | mud oil spot 100% m | 0.20         |
|             |                     |              |
|             |                     |              |
|             |                     |              |
|             |                     |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.

**28/25/36 Kearny, KS**

P.O. Box 399  
Garden City KS 67846

**Lee A 7-28**

Job Ticket: 64297

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2018.02.05 @ 12:05:42

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 40.00        | mud oil spot 100%m | 0.197         |

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

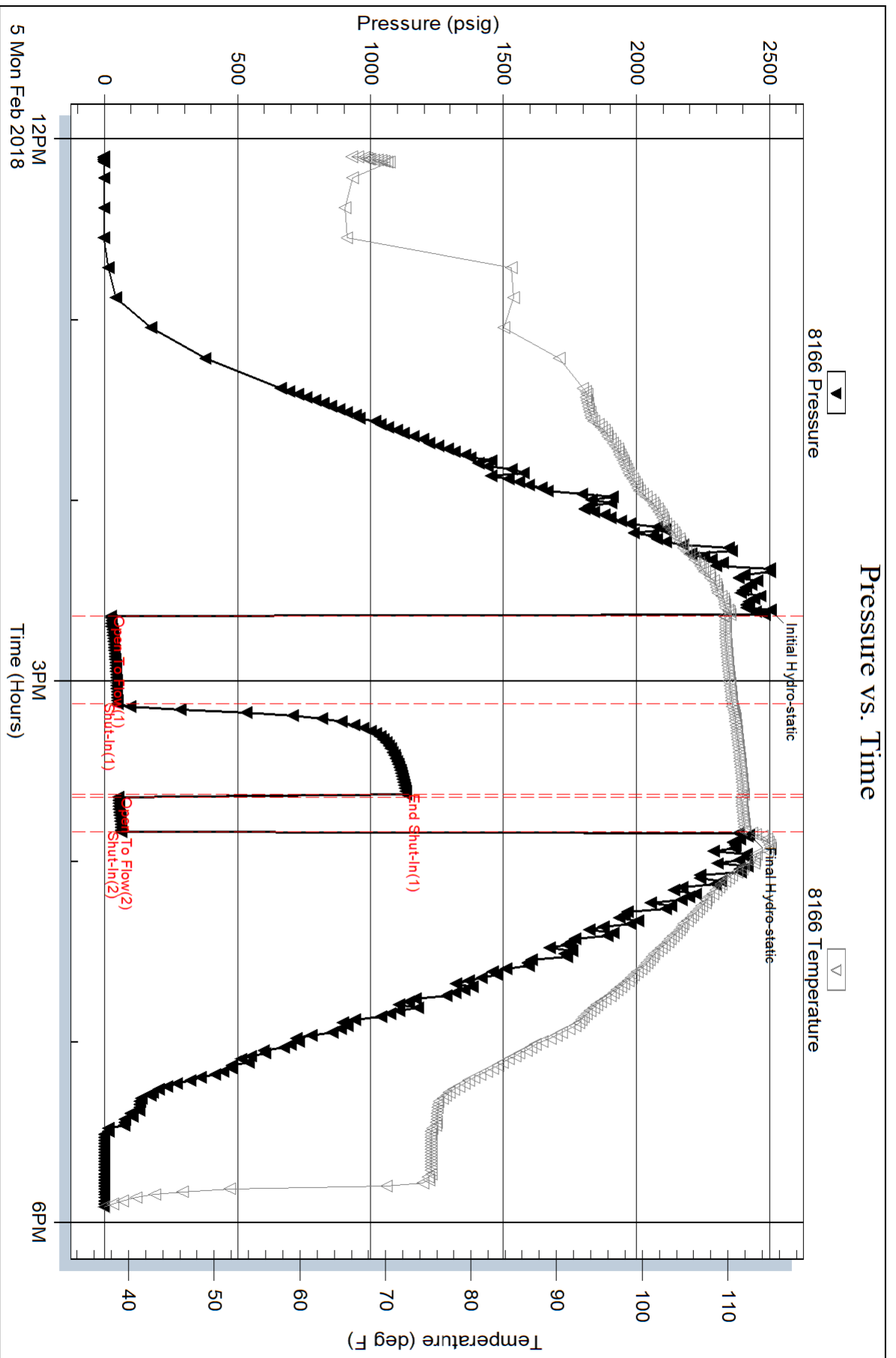
Num Gas Bombs: 0

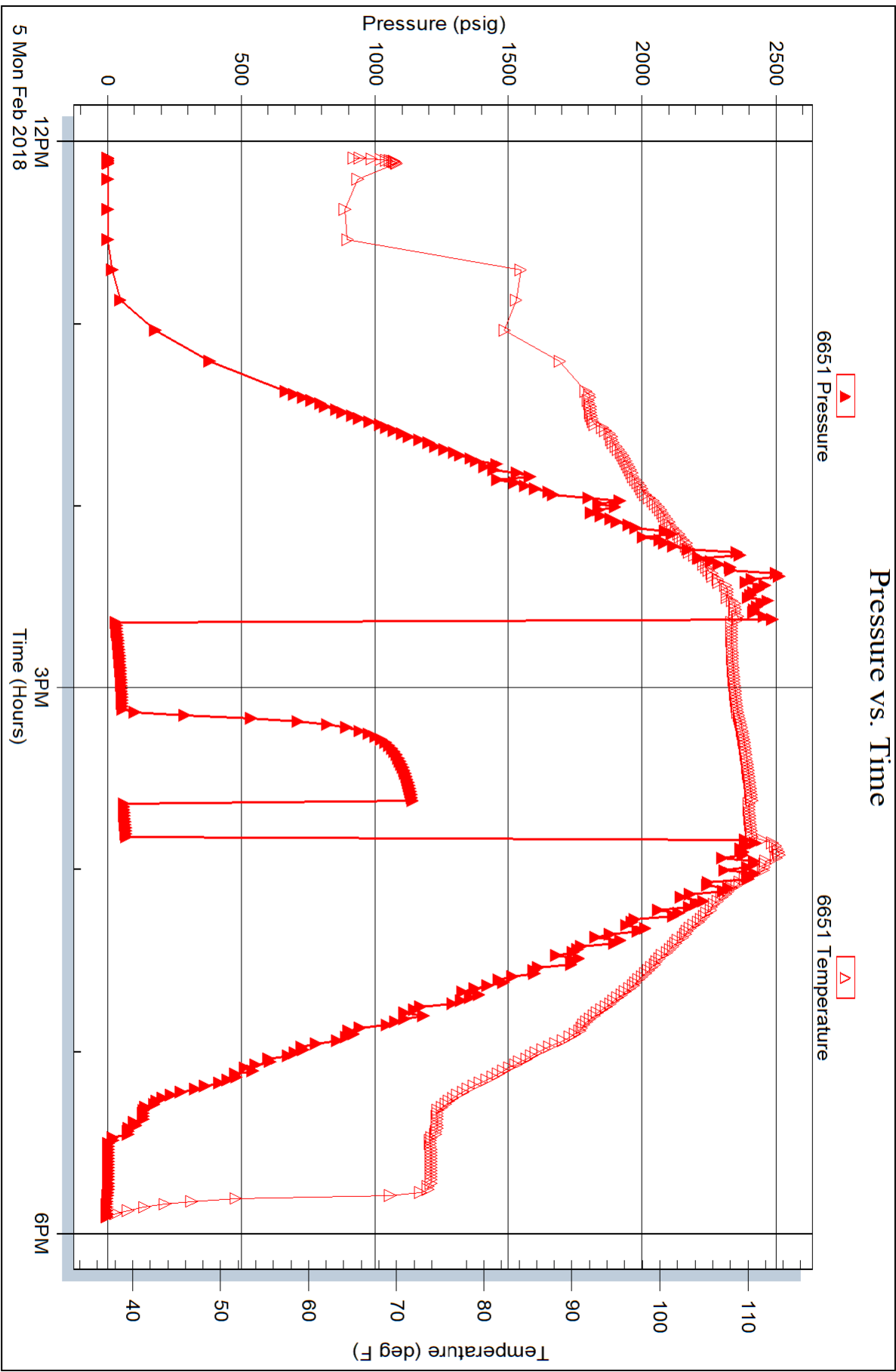
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





# **Geological Report**

American Warrior, Inc.

**Lee A #7-28**

2225' FSL & 1307' FWL

Sec 28, T25s, R36w

Kearny County, Kansas



**American Warrior, Inc.**



## General Data

Well Data: American Warrior, Inc.  
Lee A #7-28  
2225' FSL & 1307' FWL  
Sec. 28, T25s, R36w  
Kearny County, Kansas  
API # 15-093-21963-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: January 27, 2018

Completion Date: February 7, 2018

Elevation 3050' G.L.  
3061' K.B.

Directions: From center of Lakin, KS at the intersection of Hwy 50 & Hwy 25 – Now go 7.2 miles South on Hwy 25 to RD. R – Now go South 0.25 on Rd. R – East into by tank battery

Casing: 1831' 8 5/8" #23 Surface Casing  
5065' 5 1/2" 15.5# Production Casing

Samples: 3600' to RTD 10' Wet & Dry

Drilling Time: 3500' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"  
Stack Micro

Drillstem Tests: Two-Trilobite Testing "Chris Hagman & Brandon Turley"

Problems: Lost Circulation @ 1603'

## Formation Tops

Lee A #7-28

Sec. 28, T25s, R36w

2225' FSL & 1307' FWL

|                   |             |              |
|-------------------|-------------|--------------|
| <b>Heebner</b>    | <b>3686</b> | <b>-625</b>  |
| <b>Toronto</b>    | <b>3698</b> | <b>-637</b>  |
| <b>Lansing</b>    | <b>3730</b> | <b>-669</b>  |
| <b>Stark</b>      | <b>4078</b> | <b>-1017</b> |
| <b>Hush</b>       | <b>4144</b> | <b>-1083</b> |
| <b>BKC</b>        | <b>4255</b> | <b>-1194</b> |
| <b>Marmaton</b>   | <b>4275</b> | <b>-1214</b> |
| <b>Pawnee</b>     | <b>4369</b> | <b>-1308</b> |
| <b>Fort Scott</b> | <b>4399</b> | <b>-1338</b> |
| <b>Cherokee</b>   | <b>4410</b> | <b>-1349</b> |
| <b>Morrow</b>     | <b>4714</b> | <b>-1653</b> |
| <b>Morrow SD</b>  | <b>4822</b> | <b>-1761</b> |
| <b>St. Gen</b>    | <b>4848</b> | <b>-1787</b> |
| <b>RTD</b>        | <b>5070</b> | <b>-2009</b> |
| <b>LTD</b>        | <b>5068</b> | <b>-2007</b> |
|                   |             |              |

## Sample Zone Descriptions

**Morrow** (4823', -1762): Covered in DST #1

Sandstone, gray/green, fine grain, sub round, well sorted, fair to poor cementation, medium hard, glauconitic, scattered Limestone fossil fragments, fair inter crystalline porosity, fair to good odor, fair stain, good saturation, good show of free oil when broke, dull gold fluorescence, fair slow stream cut. Gas 45 units hotwire.

**St. Louis** (4966', -1905): Covered in DST #2

Limestone, cream, oolitic packstone, slightly chalky, poor to fair oolitic porosity, fair odor, fair stain, some black tarry stain, fair to poor saturation, fair show of free oil when broke, poor fluorescence, poor to fair slow stream cut. Gas 25 units hotwire.

## Drill Stem Tests

Trilobite Testing  
 “Chris Hagman”

### DST #1

#### Morrow

Interval 4770' – 4871' Anchor Length 101'

IHP - 2410 #

IFP - 30" – WSB

ISI - 30" – No Return

FFP - 30" – WSB dead in 20 min

FSIP - 30" – No Return

FHP - 2330 #

BHT - 116° F

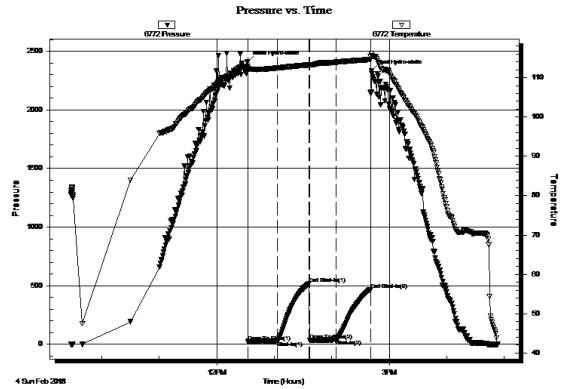
Recovery: 15' M

23-29#

520#

33-39#

464#



“Brandon Turley”

### DST #2

#### St Louis

Interval (4940' – 5020') Anchor Length 80'

IHP - 2502 #

IFP - 30" – ¼" blow dead in 14 min

ISI - 30" – No Return

FFP - 10" – No Blow

FSIP - Pulled Test

FHP - 2423 #

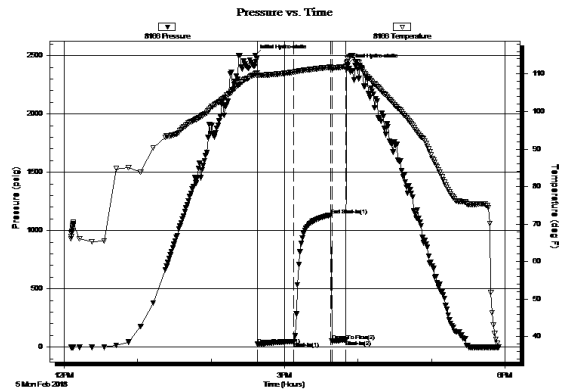
BHT - 113° F

Recovery: 40' OSM

24-48#

1133#

52-63#



## Structural Comparison

|                         | American Warrior, Inc.<br>Lee A #7-28<br>Sec. 28, T25s, R36w<br>2225' FSL & 1307' FWL |       |     | American Warrior, Inc.<br>Lee #4-28<br>Sec. 28, T25s, R36w<br>1900' FSL & 767' FWL |       |     | Merit Energy Corp<br>Lee #1-28<br>Sec. 28, T25s, R36w<br>330' FSL & 2970' FEL |       |
|-------------------------|---|-------|-----|--|-------|-----|---|-------|
| <b><u>Formation</u></b> |   |       |     |  |       |     |   |       |
| Heebner                 | 3686  | -625  | -11 | 3678   | -614  | -22 | 3662  | -603  |
| Lansing                 | 3730  | -669  | -11 | 3722   | -658  | -15 | 3713  | -654  |
| Stark                   | 4078  | -1017 | -11 | 4070   | -1006 | -12 | 4064  | -1005 |
| BKC                     | 4255  | -1194 | -13 | 4245   | -1181 | -11 | 4242  | -1183 |
| Marmaton                | 4275  | -1214 | -11 | 4267   | -1203 | -9  | 4264  | -1205 |
| Pawnee                  | 4369  | -1308 | -8  | 4364   | -1300 | -7  | 4360  | -1301 |
| Fort Scott              | 4399  | -1338 | -6  | 4396   | -1332 | -6  | 4391  | -1332 |
| Cherokee                | 4410  | -1349 | -6  | 4407   | -1343 | -6  | 4402  | -1343 |
| Morrow                  | 4714  | -1653 | -7  | 4710   | -1646 | -10 | 4702  | -1643 |
| Miss                    | 4848  | -1787 | -6  | 4845   | -1781 | 4   | 4850  | -1791 |

### Summary

The location for the Lee A #7-28 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests were conducted, neither of which recovered commercial quantities of oil. After all the gathered data had been examined, the decision was made to run 5 1/2" casing to further evaluate the Lee A #7-28 well.

### Perforations

**Primary:**                      **St. Louis C**                      **(4966' – 4972')**

**Secondary:**                      **St Louis A**                      **(4904' – 4910')**

**Before Abandonment:**                      **Morrow Sand**                      **(4820' – 4833')**

**(Morrow, shaley, shut in never broke over, lower pressure, will have to frac)**

Respectfully Submitted,

Lukas Thompson  
American Warrior, Inc.





# American Warrior, Inc.

Luke Thompson - Geologist  
 3118 Cummings Rd  
 Garden City, KS 67846  
 (785) 493-1254 cell  
 (620) 275-5067 office

|                   |                           |  |                                     |
|-------------------|---------------------------|--|-------------------------------------|
| WELL: Lee A #7-28 | API #: 15-093-21963-00-00 | LOCATION: Kearny County, KS<br>2225' FSL & 1307' FWL<br>28-25s-36w | Elevation<br>KB: 3061'<br>GL: 3050' |
|-------------------|---------------------------|--|-------------------------------------|

### Lithology Key

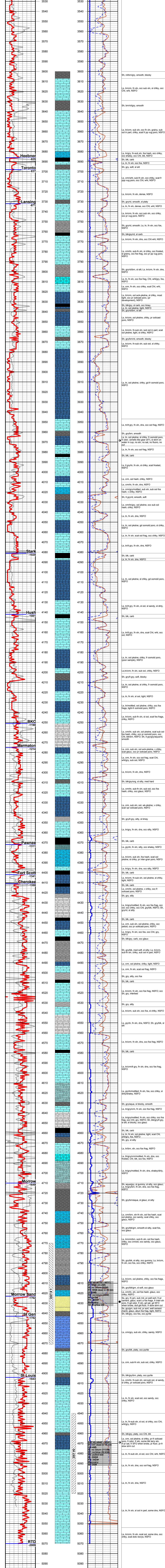
|  |                    |  |                  |
|--|--------------------|--|------------------|
|  | Limestone          |  | Black Shale      |
|  | Shaley Limestone   |  | Shale            |
|  | Sandy Limestone    |  | Silty Shale      |
|  | Fossil Limestone   |  | Siltstone        |
|  | Cherty Limestone   |  | Shaley Sandstone |
|  | Oolitic Limestone  |  | Sandstone        |
|  | Silty Limestone    |  | Chert            |
|  | Shale Interbed     |  | Dolomite         |
|  | Limestone Interbed |  | CFS              |

### Curve Data:

Geologist: Luke Thompson (American Warrior, Inc.)  
 Drilling Contractor: Duke Rig #5  
 Drilling time from: 3500' - TD  
 Gamma Ray  
 Geological Supervision from: 3600' - TD  
 Samples from: 3600' - RTD  
 Correlating Log: Lee #4-28 (28-25s-36w)  
 Surface Casing: 1831' 8 5/8" 23#  
 Production Casing: 5065' 5 1/2" 15.5#  
 RTD: 5070'  
 LTD: 5068'

| Formation  | Top  | Lea | Datum | Top  | Sample | Datum | Correlating Well | Structural Comparison | Status: |
|------------|------|-----|-------|------|--------|-------|------------------|-----------------------|---------|
| Heebner    | 3686 |     | -625  | 3686 |        | -625  | -11              |                       | Oil     |
| Toronto    | 3698 |     | -637  | 3698 |        | -637  | -11              |                       |         |
| Lansing    | 3730 |     | -669  | 3732 |        | -671  | -11              |                       |         |
| Stark      | 4078 |     | -1017 | 4081 |        | -1020 | -11              |                       |         |
| Hush       | 4144 |     | -1083 | 4140 |        | -1079 | -11              |                       |         |
| BKC        | 4255 |     | -1194 | 4251 |        | -1190 | -13              |                       |         |
| Marmaton   | 4275 |     | -1214 | 4275 |        | -1214 | -11              |                       |         |
| Pawnee     | 4369 |     | -1308 | 4372 |        | -1311 | -8               |                       |         |
| Fort Scott | 4399 |     | -1338 | 4402 |        | -1341 | -6               |                       |         |
| Cherokee   | 4410 |     | -1349 | 4411 |        | -1350 | -6               |                       |         |
| Morrow     | 4714 |     | -1653 | 4710 |        | -1649 | -7               |                       |         |
| Mrrw SD    | 4822 |     | -1761 | 4823 |        | -1762 | -1               |                       |         |
| St. Gen    | 4848 |     | -1787 | 4843 |        | -1782 | -6               |                       |         |
| TD         | 5068 |     | -2007 | 5070 |        | -2009 |                  |                       |         |

**Conclusion:** The location for the Lee A #7-28 was found via 3-D seismic survey. The well was low to the Lee #4-28 as expected. Two DSTs were conducted, neither of which recovered commercial quantities of oil. The decision was made to run 5 1/2" production casing to further evaluate the Lee A #7-28.



**DST #1 (4770' - 4871')**  
 IF: WSB (23-2#)  
 IS: 114' dead in 14 min (24-48#)  
 FS: no return (620#)  
 FE: WSB dead in 20 min (23-48#)  
 FF: no return (464#)  
 IH: 2410#  
 FH: 2830#  
 Recovery: 15' M w/low OS

**DST #2 (4940' - 5020')**  
 IF: WSB (23-2#)  
 IS: 114' dead in 14 min (24-48#)  
 FS: no return (1135#)  
 FE: no blow (62-63#)  
 FF: pulled test  
 IH: 2502#  
 FH: 2423#  
 Recovery: 40' OSM