

# CEMENTING LOG

Date **12/4/2014** District **Liberal # 21** Ticket No. **64515**  
 Company **American Warrior** Rig **Duke 9**  
 Lease **O'Brate Finney** Well No **2-36**  
 County **Finney** State **Ks**  
 Location \_\_\_\_\_  
 Field \_\_\_\_\_  
 Casing Data  Conductor  PTA  Squeeze  Misc.  
 Surface  Intermediate  Production  Liner  
 Size **8 5/8** Type \_\_\_\_\_ Weight **24#** Collar \_\_\_\_\_

### CEMENT DATA

Spacer Type \_\_\_\_\_ **Water**  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density **8.33** PPG  
 LEAD: Time \_\_\_\_\_ hrs. Type **Class A**  
**6% gel, 0.5 lbs/sk flo-seal, 3% calcium chloride** Excess **100%**  
 Amt. **700** Sks Yield **2** ft<sup>3</sup>/sk Density **12.46** PPG  
 TAIL: Time \_\_\_\_\_ hrs. Type **Class A Common**  
**3% calcium chloride, 0.25#/sk flo-seal** Excess **100%**  
 Amt. **200** Sks Yield **1.2** ft<sup>3</sup>/sk Density **15.6** PPG  
 WATER Lead **10.9** Gal/sk Tail **5.2** Gal/sk Total **187** BBLs

Casing Depths Top \_\_\_\_\_ Bottom **1696.92**

Pump Trucks Used: **531-541**  
 Bulk Equipment **955-692**  
**562-744**

Drill Pipe: BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Open Hole: BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Capacity Factors: BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Casing BBLs/LIN. FT **0.0636** LIN. FT/BBL \_\_\_\_\_  
 Open Holes BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL **13.6037**  
 Drill Pipe BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Annulus BBLs/LIN. FT \_\_\_\_\_ LIN. FT/BBL \_\_\_\_\_  
 Perforations From \_\_\_\_\_ ft to \_\_\_\_\_ ft Amt \_\_\_\_\_

Float Equipment: Manufacturer \_\_\_\_\_  
 Shoe: Type **REGULAR GUIDE SHOE** Depth \_\_\_\_\_  
 Float: Type **AFU FLOAT VALVE** Depth \_\_\_\_\_  
 Centralizers: Quantity **3** Plugs Top **1** Bottom \_\_\_\_\_  
 Stage Collars **Cement Basket**  
 Special Equipment \_\_\_\_\_  
 Disp: Fluid Type **FRESH WATER** Amt **105** bbls Weight **8.33** PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_

COMPANY REPRESENTATIVE \_\_\_\_\_ CEMENTER **Edgar A. Rodriguez**

| TIME    | PRESSURES PSI     |         | FLUID PUMPED DATA |                        |               | REMARKS  |
|---------|-------------------|---------|-------------------|------------------------|---------------|--|
|         | DRILL PIPE CASING | ANNULUS | TOTAL FLUID       | PUMPED PER TIME PERIOD | RATE BBLs/MIN |  |
| 4:00 pm |                   |         |                   |                        |               | Got to location & spotted trucks                       |
| 4:10    |                   |         |                   |                        |               | Rig up trucks. Rig up floor                            |
| 5:10    |                   |         |                   |                        |               | Casing on bottom. Will stab cmt head to circulate      |
| 6:00    |                   |         |                   |                        |               | Performed safety meeting                               |
| 6:13    | 1120              |         |                   |                        |               | Pressure tested lines 1000 psi                         |
| 6:19    | 220               |         | 5                 |                        | 1             | Pump 5 bbls of fresh water                             |
| 6:24    | 180               |         | 249               |                        | 6             | Pump 700 sks of lead cmt (249 bbls @12.5)              |
| 7:10    | 130               |         | 43                |                        | 4.5           | Pump 200 sks of tail cmt (43 bbls @15.6)               |
| 7:22    |                   |         |                   |                        |               | Shutdown / Drop top plug                               |
| 7:25    | 60                |         |                   |                        | 6             | Pump 105 bbls of displacement                          |
| 7:34    | 280               |         | 60                |                        | 6             | Cement back to surface. 45 bbls of cement back to pit  |
| 7:48    | 480               |         | 95                |                        | 3             | Slow rate to bump plug                                 |
| 7:51    | 530               |         | 105               |                        | 3             | Bumped plug. Landed at 530 psi and took up to 1260 psi |
| 7:54    |                   |         |                   |                        |               | Check floats. 1/4 of bbl back                          |
| 7:55    |                   |         |                   |                        |               | End job. Total of 45 bbls of cement back to pit.       |
| 8:00    |                   |         |                   |                        |               | Rig down trucks  |
| 9:00    |                   |         |                   |                        |               | Crew leave location                                    |
|         |                   |         |                   |                        |               |  |
|         |                   |         |                   |                        |               |  |
|         |                   |         |                   |                        |               |  |
|         |                   |         |                   |                        |               |  |
|         |                   |         |                   |                        |               |  |
|         |                   |         |                   |                        |               |  |
|         |                   |         |                   |                        |               |  |



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

TICKET 26918

PAGE 1 OF 2

SERVICE LOCATIONS  
 1. Hays, Ks  
 2. Ness City, Ks  
 3.  
 4.

WELL/PROJECT NO. #2-36  
 LEASE Obrate Finney  
 COUNTY/PARISH Finney  
 STATE Ks  
 CITY  
 DATE 12-11-14  
 OWNER same

TICKET TYPE  SERVICE  SALES  
 CONTRACTOR Duke Dig #9  
 RIG NAME/NO.  
 SHIPPED VIA CT  
 DELIVERED TO Location  
 ORDER NO.

WELL TYPE gas  
 WELL CATEGORY Development  
 JOB PURPOSE Longstring  
 WELL PERMIT NO.  
 WELL LOCATION

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 #111             | 90   | mi  |        |   | 6 <sup>00</sup>    | 540 <sup>00</sup>  |
| 578             |                                     | 1          |      |    | Pump Charge (Longstring) | 1    | ea  | 5000   | ' | 1500 <sup>00</sup> | 1500 <sup>00</sup> |
| 221             |                                     | 1          |      |    | KCL                      | 2    | gal |        |   | 25 <sup>00</sup>   | 50 <sup>00</sup>   |
| 281             |                                     | 1          |      |    | Mud Flush                | 500  | gal |        |   | 1 <sup>25</sup>    | 625 <sup>00</sup>  |
| 290             |                                     | 1          |      |    | D-Air                    | 2    | gal |        |   | 42 <sup>00</sup>   | 84 <sup>00</sup>   |
| 402             |                                     | 1          |      |    | Centralizers             | 8    | ea  | 5 1/2" |   | 70 <sup>00</sup>   | 560 <sup>00</sup>  |
| 403             |                                     | 1          |      |    | Baskets                  | 2    | ea  |        |   | 300 <sup>00</sup>  | 600 <sup>00</sup>  |
| 406             |                                     | 1          |      |    | L D Plug & Baffle        | 1    | ea  |        |   | 275 <sup>00</sup>  | 275 <sup>00</sup>  |
| 405             |                                     | 1          |      |    | Formation Packer Shoe    | 1    | ea  |        |   | 1650 <sup>00</sup> | 1650 <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 12-11-14 TIME SIGNED 2250  A.M.  P.M.

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

| SURVEY  | AGREE | UN-DECIDED | DIS-AGREE |                 |                      |
|---|-------|------------|-----------|-----------------|----------------------|
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  |       |            |           | PAGE TOTAL      | 5884 <sup>00</sup>   |
| WE UNDERSTOOD AND MET YOUR NEEDS?   |       |            |           | page 2          | 4935 <sup>00</sup>   |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY?  |       |            |           | subtotal        | 10819 <sup>00</sup>  |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?                        |       |            |           | Finney TAX 7.3% | 555 <sup>27</sup>    |
| ARE YOU SATISFIED WITH OUR SERVICE?<br><input type="checkbox"/> YES <input type="checkbox"/> NO |       |            |           | TOTAL           | 11,374 <sup>27</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 Mick Forke APPROVAL

Thank You!



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

TICKET CONTINUATION

TICKET No. 26918

CUSTOMER *American Warrior Inc* WELL # *Obwater 2-36 Finney* DATE *12-11-14* 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          |            |           |             |           |
| <i>325</i>      |                                     | <i>2</i>   |      |    |      | <i>Standard Cement</i> | <i>175</i>   | <i>sk</i> |            |              | <i>14</i>  | <i>50</i> | <i>2537</i> | <i>50</i> |
| <i>276</i>      |                                     | <i>2</i>   |      |    |      | <i>Floccle</i>         | <i>50</i>    | <i>#</i>  | <i>1/4</i> | <i>#/sk</i>  | <i>2</i>   | <i>50</i> | <i>125</i>  | <i>08</i> |
| <i>283</i>      |                                     | <i>2</i>   |      |    |      | <i>Salt</i>            | <i>900</i>   | <i>#</i>  |            |              | <i>20</i>  |           | <i>180</i>  | <i>00</i> |
| <i>284</i>      |                                     | <i>2</i>   |      |    |      | <i>Calseal</i>         | <i>8</i>     | <i>sk</i> |            |              | <i>35</i>  | <i>00</i> | <i>280</i>  | <i>00</i> |
| <i>292</i>      |                                     | <i>2</i>   |      |    |      | <i>Halad-322</i>       | <i>80</i>    | <i>#</i>  |            |              | <i>8</i>   | <i>00</i> | <i>640</i>  | <i>00</i> |
| <i>581</i>      |                                     | <i>2</i>   |      |    |      | SERVICE CHARGE         |              |           |            |              |            |           |             |           |
| <i>583</i>      |                                     | <i>2</i>   |      |    |      | MILEAGE CHARGE         |              |           |            |              |            |           |             |           |
|                 |                                     |            |      |    |      | TOTAL WEIGHT           | <i>18280</i> |           |            |              |            |           |             |           |
|                 |                                     |            |      |    |      | LOADED MILES           | <i>90</i>    |           |            |              |            |           |             |           |
|                 |                                     |            |      |    |      | CUBIC FEET             |              |           |            |              | <i>2</i>   | <i>00</i> | <i>350</i>  | <i>00</i> |
|                 |                                     |            |      |    |      | TON MILES              |              |           |            | <i>822.5</i> | <i>1</i>   | <i>00</i> | <i>822</i>  | <i>50</i> |

CONTINUATION TOTAL *4935<sup>00</sup>*

**JOB LOG**

**SWIFT Services, Inc.**

DATE 12-11-19 PAGE NO. 7

CUSTOMER: America Warrior Inc

WELL NO. # 2-36

LEASE: Obrate Finney

JOB TYPE: Longstring

TICKET NO. 26918

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS  |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
|           |      |            |                    | T     | C | TUBING         | CASING |   |
|           | 1930 |            |                    |       |   |                |        | 07 loc w/FE   |
|           |      |            |                    |       |   |                |        | RTD 5000'<br>5 1/2" X 15.5# X 3121' X 42'<br>Cent 1, 3, 5, 7, 9, 11, 13, 15<br>Bask 2, 16 |
|           | 1950 |            |                    |       |   |                |        | start FE  |
|           | 2125 |            |                    |       |   |                |        | Break Circ  |
|           | 2200 | 2          | 7/5                |       |   |                |        | Plug RH+AMH 30/20 sks EA-2  |
|           | 2210 | 5          | 0                  |       |   |                | 200    | Start 500 gal Mud flush   |
|           |      | 5          | 12/0               |       |   |                | 200    | Start 20 bbl KCH flush  |
|           |      | 5          | 20/0               |       |   |                | 200    | Start 125 sks EA-2  |
|           | 2220 |            | 30                 |       |   |                |        | End Cement<br>Wash P&L<br>Drop L.D. Plug  |
|           | 2230 | 6          | 0                  |       |   |                | 200    | Start Displacement  |
|           | 2239 | 5          | 52                 |       |   |                | 250    | Catch Cement  |
|           | 2249 |            | 73                 |       |   |                | 4400   | Land Plug<br>Release Pressure<br>Float Held   |
|           |      |            |                    |       |   |                |        | Thank you<br>Nick, David E., Austin, & Preston  |