



# Geologic Report

Drilling Time and Sample Log

|  |                     |                                      |
|--|---------------------|--------------------------------------|
| Operator <b>American Warrior, Inc.</b>   |                     | Elevation<br>KB 2232'                |
| Lease <b>Rein</b>                        | No. <b>5-23</b>     | DF<br>GL 2224'                       |
| API # <b>15-135-25872-0000</b>           |                     | Casing Record<br>Surface             |
| Field <b>Schaben Northwest</b>           |                     | 8 5/8" @ 230'<br>Production          |
| Location <b>530' FNL &amp; 2300' FEL</b> |                     | 5 1/2" @ 4367'<br>Electrical Surveys |
| Sec. <b>23</b>                           | Twp. <b>19s</b>     | Rgc. <b>22w</b>                      |
| County <b>Ness</b>                       | State <b>Kansas</b> |                                      |
| Pioneer<br>CNL/CDL, DIL                  |                     |                                      |

| Formation     | Log Tops    | Sample Tops | Struct Comp |
|---------------|-------------|-------------|-------------|
| Anhydrite     | 1475' +757  | 1479' +753  | +5          |
| Base          | 1512' +720  | 1513' +719  | FL          |
| Heebner       | 3699' -1467 | 3703' -1471 | +5          |
| Lansing       | 3744' -1512 | 3749' -1517 | +6          |
| BKC           | 4085' -1853 | 4088' -1856 |             |
| Pawnee        | 4170' -1938 | 4174' -1942 | +1          |
| Fort Scott    | 4248' -2016 | 4252' -2020 | +2          |
| Cherokee      | 4268' -2036 | 4272' -2040 | FL          |
| Mississippian | 4340' -2108 | 4344' -2112 | +28         |
| Osage         | 4350' -2118 | 4354' -2122 |             |
| Total Depth   | 4368' -2136 | 4372' -2140 |             |

Reference Well For Structural Comparison **Thunderbird Drilling, Inc. Sekavec #1**  
C NW NE Sec. 23 T19s R22w Ness Co. Kansas

|                             |                             |                     |
|-----------------------------|-----------------------------|---------------------|
| Drilling Contractor         | Discovery Drilling Co. Inc. | Rig #3              |
| Commenced                   | 6-17-2015                   | Completed 6-24-2015 |
| Samples Saved From          | 4000'                       | To RTD              |
| Drilling Time Kept From     | 3600'                       | To RTD              |
| Samples Examined From       | 4000'                       | To RTD              |
| Geological Supervision From | 4000'                       | To RTD              |

Displacement 3600' Mud Type Chemical

## Summary and Recommendations

The location for the Rein #5-23 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 recovered commercial amounts of oil from the Cherokee Sand and the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Rein #5-23 well.

Respectfully Submitted,  
  
Jason T Alm  
Hard Rock Consulting, Inc.

