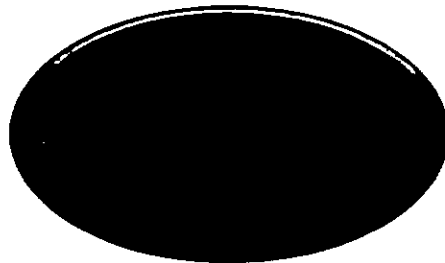


# **Geological Report**

American Warrior, Inc.  
**Witthuhn Unit #2-26**  
140' FSL & 335' FEL  
Sec. 26 T18s R22w  
Ness County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Witthuhn Unit #2-26  
140' FSL & 335' FEL  
Sec. 26 T18s R22w  
Ness County, Kansas  
API # 15-135-25086-0000

Drilling Contractor: Petromark Drilling, LLc. Rig #1

Geologist: Jason Alm

Spud Date: February 7, 2010

Completion Date: February 13, 2010

Elevation: 2142' Ground Level  
2148' Kelly Bushing

Directions: Bazine KS, 1 mi. West on Hwy 96, North and West  
into location.

Casing: 1421' 8 5/8" surface casing  
4222' 5 1/2" production casing

Samples: 10' wet and dry, 3500' to RTD

Drilling Time: 3500' to RTD

Electric Logs: None

Drillstem Tests: One, Trilobite Testing, Inc. "Andy Carreira"

Problems: Rig was 31 ft long at TD

Remarks: Mistake to board was made while drilling out from  
under surface. All formation tops and tests are  
depth corrected.

## Formation Tops

| Formation     | American Warrior, Inc.<br>Witthuhn Unit #2-26<br>Sec. 26 T18s R22w<br>140' FSL & 335' FEL |
|---------------|-------------------------------------------------------------------------------------------|
| Anhydrite     | 1404', +744                                                                               |
| Base          | 1447', +701                                                                               |
| Heebner       | 3607', -1459                                                                              |
| Lansing       | 3653', -1505                                                                              |
| BKc           | 3969', -1821                                                                              |
| Pawnee        | 4062', -1914                                                                              |
| Fort Scott    | 4133', -1985                                                                              |
| Cherokee      | 4151', -2003                                                                              |
| Mississippian | 4213', -2065                                                                              |
| RTD           | 4223', -2075                                                                              |

## Sample Zone Descriptions

**Mississippian Osage (4220', -2068):**      **Covered in DST #1**  
 Dolo – Δ – Fine to medium sucrosic crystalline with poor to fair inter-crystalline and vuggy porosity, very heavy chert, triptolitic, weathered with good vuggy porosity, light to fair oil stain and saturation, show of free oil, fair odor, good yellow cut fluorescents, 45 units hotwire.

**Drill Stem Tests**  
 Trilobite Testing, Inc.  
 "Andy Carreira"

**DST #1**

**Mississippian Osage**

Interval (4178' - 4223') Anchor Length 45'

|     |                        |           |
|-----|------------------------|-----------|
| IHP | - 2156 #               |           |
| IFP | - 5" - B.O.B. 30 sec.  | 419-574 # |
| ISI | - 30" - Built to 1 in. | 1336 #    |
| FFP | - 5" - B.O.B. On Open  | 651-780 # |
| FSI | - 30" - W.S.B.         | 1336 #    |
| FHP | - 2084 #               |           |
| BHT | - 122°F                |           |

|           |            |                  |
|-----------|------------|------------------|
| Recovery: | 80' GIP    |                  |
|           | 1595' GCO  | 41° API          |
|           | 120' HOCGM | 20% Oil, 20% Gas |

**Structural Comparison**

| <b>Formation</b> | <b>American Warrior, Inc.<br/>Witthuhn Unit #2-26<br/>Sec. 26 T18s R22w<br/>140' FSL &amp; 335' FEL</b> | <b>American Warrior, Inc.<br/>Witthuhn Heirs #2-35<br/>Sec. 35 T18s R22w<br/>335' FNL &amp; 335' FEL</b> | <b>American Warrior, Inc.<br/>Witthuhn Unit #1-26<br/>Sec. 26 T18s R22w<br/>2200' FSL &amp; 40' FEL</b> |
|------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Anhydrite        | <b>1404', +744</b>                                                                                      | 1407', +742                                                                                              | (+2) 1409', +743                                                                                        |
| Base             | <b>1447', +701</b>                                                                                      | NA                                                                                                       | NA (+1)                                                                                                 |
| Heebner          | <b>3607', -1459</b>                                                                                     | 3606', -1457                                                                                             | (-2) 3602', -1450                                                                                       |
| Lansing          | <b>3653', -1505</b>                                                                                     | 3652', -1503                                                                                             | (-2) 3648', -1496                                                                                       |
| BKc              | <b>3969', -1821</b>                                                                                     | 3972', -1823                                                                                             | (+2) 3965', -1813                                                                                       |
| Pawnee           | <b>4062', -1914</b>                                                                                     | 4063', -1914                                                                                             | FL 4054', -1902                                                                                         |
| Fort Scott       | <b>4133', -1985</b>                                                                                     | 4140', -1991                                                                                             | (+6) 4129', -1977                                                                                       |
| Cherokee         | <b>4151', -2003</b>                                                                                     | 4160', -2011                                                                                             | (+8) 4151', -1999                                                                                       |
| Mississippian    | <b>4213', -2065</b>                                                                                     | 4240', -2091                                                                                             | (+26) 4220', -2068                                                                                      |

## **Summary**

The location for the Witthuhn Unit #2-26 was found via 3-D seismic survey. The new well ran structurally higher than expected via the survey. One drill stem test was conducted which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 ½ inch production casing to further evaluate the Witthuhn Unit #2-26 well.

## **Recommended Perforations**

|                             |                        |               |
|-----------------------------|------------------------|---------------|
| <b>Mississippian Osage:</b> | <b>(4213' – 4222')</b> | <b>DST #1</b> |
|-----------------------------|------------------------|---------------|

Respectfully Submitted,

Jason Alm  
Hard Rock Consulting, Inc.