

# **Geological Report**

American Warrior, Inc.

**Irsik Equities #1-35**

988' FSL & 1402' FEL

Sec. 35, T24s, R30w

Gray County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Irsik Equities #1-35  
988' FSL & 1402' FEL  
Sec. 35, T24s, R30w  
Gray County, Kansas  
API # 15-069-20471-00-00

Drilling Contractor: Duke Drilling Co. Rig #1

Geologist: Kevin Timson

Spud Date: April 5, 2014

Completion Date: April 14, 2014

Elevation 2842' G.L.  
2854' K.B.

Directions: From Garden City, KS. Go south-east on Hwy 50 to Pole Line Rd. Go East To 6 Rd. Go South 1.5 miles and West into.

Casing: 1691' 8 5/8" #24 Surface Casing  
5091' 5 1/2" #15.5 Production Casing

Samples: 4050' to RTD 10' Wet & Dry

Drilling Time: 4000' to RTD

Electric Logs: Pioneer Energy Services "D. Schmidt"  
Full-Sweep

Drillstem Tests: One-Trilobite Testing "Shane McBride"

Problems: Tight short trip before DST #1

## Formation Tops

Irsik Equities #1-35

Sec. 35, T24s, R30w

988' FSL & 1402' FEL

<b>Anhydrite</b>	<b>1940' +914</b>
<b>Base</b>	<b>2005' +849</b>
<b>Heebner</b>	<b>4097' -1243</b>
<b>Lansing</b>	<b>4145' -1291</b>
<b>Stark</b>	<b>4477' -1623</b>
<b>Bkc</b>	<b>4614' -1760</b>
<b>Marmaton</b>	<b>4637' -1783</b>
<b>Pawnee</b>	<b>4711' -1857</b>
<b>Fort Scott</b>	<b>4735' -1881</b>
<b>Cherokee</b>	<b>4749' -1895</b>
<b>Morrow</b>	<b>4882' -2028</b>
<b>Miss</b>	<b>4893' -2039</b>
<b>RTD</b>	<b>5100' -2246</b>
<b>LTD</b>	<b>5101' -2247</b>

## Sample Zone Descriptions

**Morrow** (4882', -2028): Covered in DST #1

Sandstone. Grey/Glauconitic. Medium to coarse grain. Well rounded. Well sorted. Fair stain. Fair saturation. Show of free oil when broken. Fair odor. 120 Unit gas kick.

**Drill Stem Tests**  
 Trilobite Testing  
 “Shane McBride”

**DST #1**

**Morrow**

Interval (4856’ – 4893’) Anchor Length 37’

IHP	- 2424 #	
IFP	- 30” – BOB in 1 min	90-178 #
ISI	- 45” – Bled off 20 min, BOB 10 min	1273 #
FFP	- 45” – BOB immediately	192-347 #
FSIP	- 60” – Bled off throughout shut in	1232 #
FHP	- 2392 #	
BHT	- 126° F	

Recovery: 1240’ CGO (75% Oil)  
 124’ GMCO (40 % Oil)  
 31’ CGO (80 % Oil)  
 GTS in 7 minutes on first shut in

**Structural Comparison**

	American Warrior, Inc. Irsik Equities #1-35 Sec. 35, T24s, R30w 988’ FSL & 1402’ FEL		American Warrior, Inc. Kramer #2-31 Sec. 31, T24s, R29w 1016’ FSL & 1229’ FWL		American Warrior, Inc. Kramer #3-31 Sec 31, T24s, R29w 1982’ FSL & 2199’ FEL
<b>Formation</b>					
Heebner	4097’ -1243	+33	4111’ -1276	+47	4125’ -1290
Lansing	4145’ -1291	NA	NA	NA	NA
Stark	4477’ -1623	+37	4495’ -1660	+39	4497’ -1662
BKC	4614’ -1760	NA	NA	NA	NA
Marmaton	4637’ -1783	NA	NA	NA	NA
Pawnee	4711’ -1857	+17	4709’ -1874	+30	4722’ -1887
Fort Scott	4735’ -1881	+17	4733’ -1898	+31	4747’ -1912
Cherokee	4749’ -1895	+17	4747’ -1912	+30	4760’ -1925
Morrow	4882’ -2028	+14	4877’ -2042	+20	4883’ -2048
Miss	4893’ -2039	+7	4881’ -2046	+23	4897’ -2062

## **Summary**

The location for the Irsik Equities #1-25 well was found via 3-D seismic survey. The new well ran structurally as expected. One drill stem test was conducted, which did recover commercial quantities of oil from the Morrow Sandstone formation. After all the gathered data had been examined, the decision was made to run 5 ½" production casing to further evaluate the Irsik Equities #1-35 well.

## **Perforations**

### **Primary:**

**St. Louis (4937' – 4941')**

### **Secondary:**

**Morrow (4889' – 4891')**

**If these perms do not give up fluid we will have to shoot the upper morrow.**

### **Before abandonment:**

**Cherokee (4754' – 4757')**

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.

