

# **Geological Report**

American Warrior, Inc.

**Irsik Equities #2-35**

2550' FNL & 1700' FEL

Sec. 35, T24s, R30w

Gray County, Kansas



**American Warrior, Inc.**

## General Data

Well Data: American Warrior, Inc.  
Irsik Equities #2-35  
2550' FNL & 1700' FEL  
Sec. 35, T24s, R30w  
Gray County, Kansas  
API # 15-069-20476-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: June 19, 2014

Completion Date: June 29, 2014

Elevation 2843' 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: 1698' 8 5/8" #24 Surface Casing  
5091' 5 1/2" #15.5 Production Casing

Samples: 4600' to RTD 10' Wet & Dry

Drilling Time: 4000' to RTD

Electric Logs: Pioneer Energy Services "J. Long"  
Stack-Micro

Drillstem Tests: Two-Trilobite Testing "Justin Harris"

Problems: None

## Formation Tops

Irsik Equities #2-35

Sec. 35, T24s, R30w

2550' FNL & 1700' FEL

Anhydrite	1945' +909
Base	2011' +843
Heebner	4099' -1245
Lansing	4147' -1293
Stark	4478' -1624
Bkc	4614' -1760
Marmaton	4639' -1785
Pawnee	4711' -1857
Fort Scott	4734' -1880
Cherokee	4745' -1891
Morrow	4878' -2024
Miss	4886' -2032
RTD	5100' -2246
LTD	5101' -2247

## Sample Zone Descriptions

**Morrow** (4878', -2024): Covered in DST #2

Sandstone. Grey/Glauconitic. Medium to coarse grain. Well rounded. Well sorted. Fair stain. Fair saturation. Show of free oil when broken. Fair odor. 40 Unit gas kick.

**Drill Stem Tests**  
Trilobite Testing  
"J. Long"

**DST #1**

**Pawnee-Cherokee**

Interval (4702' – 4760') Anchor Length 58'

IHP	- 2415 #	
IFP	- 30" – WSB built to 1.5"	17-42 #
ISI	- 30" – No return	1299 #
FFP	- 10" – No blow	46-80 #
FSIP	- Pull Tool	NA
FHP	- 2310 #	
BHT	- 120° F	
Recovery:	65' Mud	

**DST #2**

**Morrow**

Interval (4816' – 4894') Anchor Length 78'

IHP	- 2442 #	
IFP	- 30" – BOB in 4 min	45-94 #
ISI	- 45" – No return	584 #
FFP	- 45" – BOB in 1 min	97-127 #
FSIP	- 60" – No return	723 #
FHP	- 2250 #	
BHT	- 122° F	

## Structural Comparison

Formation	American Warrior, Inc. Irsik Equities #2-35 Sec. 35, T24s, R30w 2550' FNL & 1700' FEL	American Warrior, Inc. Irsik-Equities #1-35 Sec. 35, T24s, R30w 988' FSL & 1402' FEL	American Warrior, Inc. Kramer #3-31 Sec 31, T24s, R29w 1982' FSL & 2199' FEL
Heebner	4099' -1245	-2	4097' -1243
Lansing	4147' -1293	-2	4145' -1291
Stark	4478' -1624	-1	4477' -1623
BKC	4614' -1760	FL	4614' -1760
Marmaton	4639' -1785	-2	4637' -1783
Pawnee	4711' -1857	FL	4711' -1857
Fort Scott	4734' -1880	+1	4735' -1881
Cherokee	4745' -1891	+4	4749' -1895
Morrow	4878' -2024	+4	4882' -2028
Miss	4886' -2032	+7	4893' -2039
			+45
			NA
			+38
			NA
			NA
			+30
			+32
			+34
			+24
			+30

### Summary

The location for the Irsik Equities #2-25 well was found via 3-D seismic survey. The new well ran structurally as expected. Two drill stem tests were conducted, one of which showed promise in the Morrow Sandstone. After all the gathered data had been examined, the decision was made to run 5 ½" casing to further evaluate the Irsik-Equities #2-35 well.

### Perforations

**Primary:** St. Louis (5016' – 5024')

**Secondary:** Morrow (4881' – 4884') **FRAC**

**Before abandonment:** Pawnee (4712' – 4716')

Respectfully Submitted,

Kevin Timson  
American Warrior, Inc.

