

# **Geological Report**

American Warrior, Inc.

## **Rothe #3-30**

1150' FNL & 2000' FWL

Sec. 30, T19s, R24w

Ness County, Kansas



**American Warrior, Inc.**

### General Data

Well Data: American Warrior, Inc.  
Rothe #3-30  
1150' FNL & 2000' FWL  
Sec. 30, T19s, R24w  
Ness County, Kansas  
API # 15-135-25566-0000

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Kevin Timson

Spud Date: April 24, 2013

Completion Date: May 1, 2013

Elevation 2334' G.L.  
2345' K.B.

Directions: From Jetmore, KS at the intersection of Hwy 96 and Hwy 283. Go North on Hwy 238 15 miles to 60 Rd. Go West on 60 Rd. 7 miles to L Rd. Go North 2 miles on L Rd. and East/North East into.

Casing: #23 8 5/8" surface casing @ 224 with 150 sacks Class A, 3% c.c, 2% gel. #15.5 5 1/2" production casing @ 4456' with 125 sacks EA-2. Port Collar @ 1616'.

Samples: 3700' to RTD 10' Wet & Dry

Drilling Time: 3700' to RTD

Electric Logs: None

Drillstem Tests: Two, Trilobite Testing, Inc. "Ray Schwager"

Problems: None

## Formation Tops

	<p><b>American Warrior, Inc.</b>  <b>Rothe #3-30</b>  <b>Sec. 30, T19s, R24w</b>  <b>1150' FNL &amp; 2000' FWL</b></p>
<b>Formation</b>	
Heebner	3737' -1392
Lansing	3778' -1433
Stark	4026' -1681
BKC	4101' -1756
Marmaton	4105' -1760
Pawnee	4219' -1874
Fort Scott	4291' -1946
Cherokee	4316' -1971
Mississippian	4391' -2046
RTD	4500' -2155
LTD	4501' -2156

## Sample Zone Descriptions

**Mississippian Warsaw (4391' -2046)**      Covered in DST #2  
 Dolomite grey. Medium to sub crystalline. Poor vuggy and poor intercrystalline porosity. Poor stain and poor saturation in porosity. Poor show of free oil and fair show of free oil when broken. Fair to good odor. 24 Units hotwire.

**Fort Scott (4291' -1946)**      Covered in DST #1  
 Limestone tan/brown. Medium crystalline. Fair oomoldic and fair oolycastic porosity. Fair stain and fair saturation in porosity. Fair show of free oil when broken. Fair odor. 29 Units hotwire.

**Drill Stem Tests**  
Trilobite Testing Inc.  
"Ray Schwager"

**DST #1**

**Fort Scott Limestone**

Interval (4270' – 4320') Anchor Length 50'

IHP	- 2108 #	
IFP	- 45" – Weak ¼" blow built to 8"	19-61 #
ISI	- 45" – No Return	1170 #
FFP	- 45" – Weak blow built to strong blow	66-105 #
FSIP	- 45" – Surface return	1059 #
FHP	- 1995 #	
BHT	- 122 ° F	

Recovery: 375' GIP  
62' HOGCM (20% O, 25% G, 55% M)  
124' MGO (45% O, 20% G, 35% M)

**DST #2**

**Mississippian Warsaw**

Interval (4334' – 4425') Anchor Length 91'

IHP	- 2181 #	
IFP	- 30" – WSB	21-26#
ISI	- 30" – No Return	335#
FFP	- 10" – No blow	27-27#
FSIP	- Pull Tool	NA
FHP	- 2068 #	
BHT	- Not Recorded	

Recovery: 5' SOCM (2% O, 98% M)