



# Geologic Report

Drilling Time and Sample Log

Operator <b>American Warrior, Inc.</b>		KB Elevation 2224'
Lease <b>Felder</b>	No. <b>3-13</b>	DF 2216'
API # <b>15-135-25846-0000</b>		Casing Record Surface 8 5/8" @ 220'
Field <b>Bernice</b>		
Location <b>1685' FSL &amp; 1465' FEL</b>		Production 5 1/2" @ 4383'
Sec. <b>13</b>	Twp. <b>20s</b>	Rge. <b>21w</b>
County <b>Ness</b>		State <b>Kansas</b>
Formation		Log Tops
Sample Tops		Struct Comp

Anhydrite	1424' +800	FL
Base	1453' +771	-1
Heebner	3742' -1518	+5
Lansing	3795' -1571	+4
BKc	4133' -1909	+4
Pawnee	4264' -2040	+3
Fort Scott	4290' -2066	+3
Cherokee	4308' -2084	+4
Mississippian	4368' -2144	+2
Total Depth	4384' -2160	

Reference Well For Structural Comparison American Warrior, Inc. Felder #1-13  
1800' FSL & 560' FEL Sec. 13 T20s R21w Ness Co. Kansas

Drilling Contractor	Discovery Drilling Co. Inc.	Rig #3
Commenced	2-16-2015	Completed 2-22-2015
Samples Saved From	4000'	To RTD
Drilling Time Kept From	3700'	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 Felder #3-13 was found via 3-D seismic survey. The new well ran structurally as 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 1/2 inch production casing to further evaluate the Felder #3-13 well.

Respectfully Submitted,

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Hard Rock Consulting, Inc.

