



Geologic Report

Drilling Time and Sample Log

Operator American Warrior, Inc.		KB Elevation 2253'
Lease Kathryn	No. 2-1	DF 2245'
API # 15-135-25846-0000		Casing Record Surface 8 5/8" @ 220'
Field Unknown		Production 5 1/2" @ 4390'
Location 1800' FSL & 1850' FEL		Electrical Surveys None
Sec. 1	Twp. 20s	Rge. 21w
County Ness	State Kansas	

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite		1457' +796	+2
Base		1486' +767	-3
Heebner		3764' -1511	-1
Lansing		3815' -1562	-4
BKc		4146' -1893	
Pawnee		4273' -2020	-2
Fort Scott		4295' -2042	FL
Cherokee		4311' -2058	+1
Mississippian		4370' -2117	+5
Total Depth		4391' -2138	

Reference Well For Structural Comparison American Warrior, Inc. Kathryn #1-1
2250' FSL & 1600' FEL Sec. 1 T20s R21w Ness Co. Kansas

Drilling Contractor	Discovery Drilling Co. Inc.	Rig #3
Commenced	2-5-2015	Completed 2-12-2015
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 Kathryn #2-1 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 1/2 inch production casing to further evaluate the Kathryn #2-1 well.

Respectfully Submitted,

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Hard Rock Consulting, Inc.

