Geologic Report

Drilling Time and Sample Log

Hard Rock Consulting, Inc.

Operator	**American Warrior, Inc.**		Elevation KB 2173' DF GL 2165'
Lease	**Denise**	No. **2-33**	
API #	**15-135-25850-0000**		Casing Record Surface 8 5/8" @ 231' Production 5 1/2" @ 4221'
Field	**Thistle Grove Southwest**		
Location	**2230' FSL & 335' FWL**		Electrical Surveys Pioneer CNL/CDL, DIL
Sec. **33**	Twp. **17s**	Rge. **21w**	
County **Ness**	State **Kansas**		

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite	1444' +729	1447' +726	-5
Base	1476' +697	1477' +696	
Heebner	3614' -1441	3622' -1449	-2
Lansing	3658' -1488	3665' -1495	-2
BKC	3941' -1768	3948' -1775	FL
Pawnee	4048' -1967	4047' -1874	+2
Fort Scott	4118' -1945	4124' -1951	FL
Cherokee	4135' -1962	4141' -1968	-2
Mississippian	4209' -2036	4219' -2046	+4
Total Depth	4222' -2049	4228' -2055	

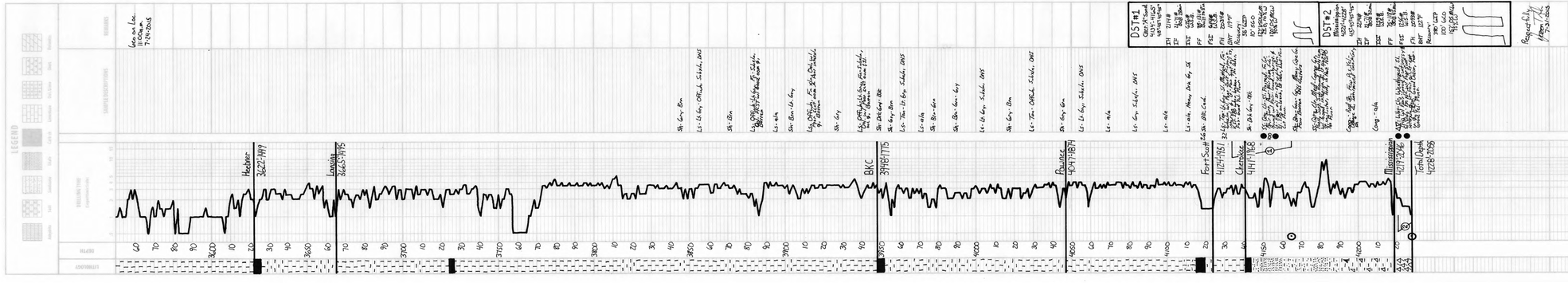
Reference Well For Structural Comparison **Mull Drilling Co. Casey #1**
C NW SW Sec. 33 T17S R21w Ness Co. Kansas

Drilling Contractor	**Discovery Drilling Co. Inc.**		Rig #3	
Commenced	7-20-2015	Completed		7-27-2015
Samples Saved From	3850'	To	RTD	
Drilling Time Kept From	3550'	To	RTD	
Samples Examined From	3850'	To	RTD	
Geological Supervision From	3850'	To	RTD	

Displacement **3400'** Mud Type **Chemical**

Summary and Recommendations

The location for the Denise #2-33 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two Drill Stem Tests were conducted one of 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 Denise #2-33 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.