

10-32s-15w  
E2 SESE

**Steven P. Murphy, PG**  
**American Warrior, Inc.**  
**P.O. Box 399**  
**Garden City, KS 67846**

**GEOLOGICAL REPORT**

15-007-22983-00-00

**AMERICAN WARRIOR, INC.**

**Alexander #1-10**  
**580 FSL - 330 FEL**  
**Section 10-T32S-R15W**  
**Barber County, Kansas**  
E2 SE SE

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**OCT 19 2006**  
**KCC WICHITA**

OPERATOR: AMERICAN WARRIOR, INC.

WELL: ALEXANDER #1-10

API NUMBER: 15-007-22983-00-00

LOCATION: 580' FSL & 330' FEL  
10-T32S-R15W  
BARBER COUNTY, KANSAS

WELLSITE: PASTURE

COMMENCED: March 2, 2006

COMPLETED: March 11, 2006

ELEVATIONS: 1950' G.L. 1963' K.B.

TOTAL DEPTH: 5275' (DRILLER)

CASING: SURFACE: 8 5/8" @ 312'  
PRODUCTION: 4 1/2" @ 5225' W/200 SX

SAMPLES: 10' FROM 4000 TO TD

DRILL STEM TESTS: Two (2) BY TRILOBITE TESTING, INC.

LOGS None

DRILLING CONTRACTOR: DUKE DRILLING (RIG 7)

REMARKS: GEOLOGICAL SUPERVISION FROM  
4100' TO T.D.

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FORMATION TOPS	LOG	SAMPLE	Nearest Comparison Well
Heebner		4080 (-2117)	
Douglas Sand		4153 (-2190)	
Stalnaker Sand		4238 (-2275)	
Lansing		4252 (-2289)	
BKC		4673 (-2710)	
Mississippian		4842 (-2879)	
Chouteau		4954 (-2991)	
Kinderhook Shale		4974 (-3011)	
Viola		5020 (-3057)	
Arbuckle		5161 (-3198 )	

#### DEVIATION SURVEYS

Depth	Deviation (in degrees)
1330	3/4
2199	1 1/4
2632	1 1/4
3191	1 1/4
3716	1 1/4
4402	1 1/4
4853	1 1/4
5023	2 3/4
5275	3

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## **SAMPLE DESCRIPTIONS**

### **Drillers Measurements**

**4843-4853: Mississippian** Chet white to green, fair tripolitic porosity, fair show of free oil, fair stain and saturation, fair odor. This interval was evaluated by DST #1.

**DST #1 4824 to 4853**

30 - 45 - 45 - 60

Blow built to 8 inches on first open, built to bottom of bucket in 11 minutes on 2<sup>nd</sup> open.

Recovery : 15 feet drilling mud

IFP's : 14 - 19 psi

FFP's: 11 - 24 psi

IBHP: 286 psi

FBHP: 372 psi

IHP: 2368 psi

FHP: 2324 psi

BHT : 124 F.

**5020-5024: Viola** Dolomite, clear, tan, medium crystalline, rhombic, with good intercrystalline porosity, good show of free oil, good stain, and saturation, strong odor. This interval was evaluated by DST #2.

**DST #2 4987 to 5023**

15 - 30 - 15 - 30

Strong Blow, Bottom of bucket in 30 sec.

Recovery : 400 feet Gas in pipe

2900 feet Gas cut muddy water. 10% gas, 50% water, 40% mud.

RW.20 @ 52 F Chlorides 50,000 ppm recovery, 6000 ppm system

IFP's : 789 - 1120 psi

FFP's: 1211 - 1498 psi

IBHP: 1704 psi

FBHP: 1705 psi

IHP: 2444 psi

FHP: 2387 psi

BHT : 138 F.

**5161: Arbuckle** Dolomite, white to cream, fine to medium crystalline, mostly dense, cherty in part, no show.

## **SUMMARY AND RECOMMENDATIONS**

Structurally, the Alexander #1-10 ran low. Commercial shows were not encountered on DST. It was decided that 4-½ inch casing be set in order to dispose of produced saltwater in the Arbuckle.

Respectfully submitted,

Steven P. Murphy, P.G.  
Kansas Licensed Geologist (#228)

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