

15-065-23126

Ø7-08s-21w

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CONSERVATION DIVISION
WICHITA, KS

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American Warrior, Inc.
P.O. Box 399
Garden City, KS 67846

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GEOLOGICAL REPORT

AMERICAN WARRIOR, INC.

Kenyon-Hardman #3
1000 FSL - 3100 FWL
Section 7-T8S-R21W
Graham County, Kansas

15-065-23126

NW SW SE

OPERATOR:	AMERICAN WARRIOR, INC.
WELL:	KENYON-HARDMAN #3
API NUMBER:	15-065-23126-00-00
LOCATION:	1000' FSL & 3100' FWL 7-T8S-R21W GRAHAM COUNTY, KS
WELLSITE:	GRASS
COMMENCED:	JANUARY 7, 2006
COMPLETED:	JANUARY 16, 2006
ELEVATIONS:	2024 G.L. 2029' K.B.
TOTAL DEPTH:	3620' (DRILLER) 3622' (LOG)
CASING:	CONDUCTOR: 13 3/8" @ 50' SURFACE: 8 5/8" @ 207' PRODUCTION: 5 1/2" 15.5# @ 3606' w/150 SX EA-2
SAMPLES:	10' FROM 2950' TO T.D.
DRILL STEM TESTS:	ONE (1) BY TRILOBITE TESTING, INC.
LOGS	COMPENSATED NEUTRON DENSITY, SONIC, MICROLOG & DUAL INDUCTION BY LOG-TECH
DRILLING CONTRACTOR:	BERENTZ RIG #6
REMARKS:	GEOLOGICAL SUPERVISION FROM 3100' TO T.D.

FORMATION TOPS	LOG	SAMPLE
Anhydrite	1549 (+480)	1540 (+489)
B. Anhydrite	1571 (+458)	1572 (+457)
Topeka	2991 (-962)	2989 (-960)
Heebner	3203 (-1174)	3201 (-1172)
Toronto	3223 (-1194)	3221 (-1192)
Lansing	3238 (-1209)	3239 (-1210)
BKC	3440 (-1411)	3438 (-1409)
Arbuckle	3555 (-1526)	3553 (-1524)

SAMPLE DESCRIPTIONS/SHOWS

Log Measurements

LANSING-KANSAS CITY

3238-3244 ("A" Zone): Limestone, white-cream, fine crystalline, slightly oolitic, mostly dense, scattered fair vugular porosity, very slight show of free oil, slight odor (**Perforate 3238-3241 before abandonment**).

3272-3278 ("C" Zone): Limestone, off white, fine crystalline, oolitic/oolicastic, fair vugular porosity, slight show of free oil/stain, fair odor (Covered in DST #1). **Perforate 3272-3275.**

3290-3000 ("D" Zone): Limestone, cream, fine crystalline, oolitic, fair intercrystalline & vugular porosity, good show of free oil/stain, strong odor. **Perforate 3290-3296.**

DST #1: 3253-3300 (45-30-45-60). IF: Weak blow, building to bottom of bucket in 42 minutes; FF: Good blow, building to bottom of bucket in 38 minutes.

Recovered: 180' Gas in pipe, 75' frothy mud cut oil (20% gas 60% oil, 20% mud), 30' frothy water and mud cut oil (20% gas, 45% oil, 15% water, 20% mud).

IHP: 1576

IFP: 16-38

ISIP: 809

FFP: 36-55

FSIP: 832

FHP: 1496

BHT: 101° F

Oil Gravity – 33° API Corrected

Chlorides (water) – 18,600 ppm

Chlorides (system) – 1,500 ppm

3400-3410 ("J" Zone): Limestone, white to cream, fine crystalline, intercrystalline porosity, fair show of free oil/stain, slight odor. **Perforate 3401-3405.**

3416-3426 ("K" Zone): Limestone, white to cream, fine crystalline, intercrystalline porosity, fair show of free oil/stain, slight odor. **Perforate 3418-3422.**

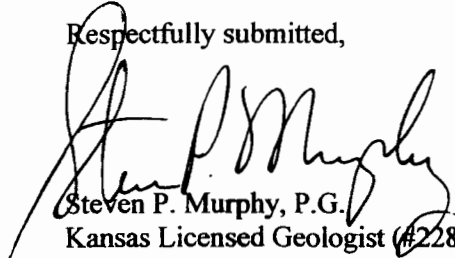
ARBUCKLE

3555-3675: Dolomite, tan, medium crystalline, fair intercrystalline porosity, slight show of free oil, slight odor, mostly barren with some gilsonite/dead oil (Log shows this zone to be wet, not worthy of further testing).

SUMMARY AND RECOMMENDATIONS

Structurally, compared to the Kenyon-Hardman #1, the Kenyon-Hardman #3 ran slightly high in the Kansas City, but 14' low at the Arbuckle.. Based on the positive structural position, results of DST #1, and log/sample analysis, 5 ½ inch casing was run to further test zones in the Kansas City.

Respectfully submitted,



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