

15-009-24909

30-20S-12W

KG5

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

GEOLOGICAL REPORT

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AMERICAN WARRIOR, INC.

Welch #4-30
400' FWL – 400' FNL
Section 30-T20S-R12W
Barton County, Kansas

OPERATOR: AMERICAN WARRIOR, INC.

WELL: WELCH #4-30

API NUMBER: 15-009-24909-00-00

LOCATION: 400' NL - 400' FWL
30-T20S-R12W
BARTON COUNTY, KS

WELLSITE: WHEAT

COMMENCED: MARCH 17, 2006

COMPLETED: MARCH 23, 2006

ELEVATIONS: 1847' G.L. 1855' K.B.

TOTAL DEPTH: 3598' (DRILLER) 3600' (LOG)

CASING: SURFACE: 8 5/8" @ 311'
PRODUCTION: 5 1/2" @ 3596' W/150 SX
EA-2

SAMPLES: 10' FROM 2750' TO T.D.

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

LOGS COMPENSATED NEUTRON DENSITY,
SONIC, MICROLOG & DUAL
INDUCTION BY LOG-TECH

DRILLING CONTRACTOR: DUKE RIG #8

REMARKS: GEOLOGICAL SUPERVISION FROM
2900' TO T.D.

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FORMATION TOPS	LOG	SAMPLE
Anhydrite	669 (+1186)	Not called
B. Anhydrite	693 (+1162)	Not called
Heebner	3077 (-1222)	3076 (-1221)
Brown Lime(latan)	3200 (-1349)	3202 (-1347)
Lansing	3214 (-1363)	3216 (-1361)
BKC	3431 (-1576)	3432 (-1577)
Reworked Arbuckle	3482 (-1627)	Not Called
Arbuckle	3514 (1641)	3497 (-1628)

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SAMPLE DESCRIPTIONS/SHOWS (Log Measurements)

LANSING-KANSAS CITY

3235-3249: (B Zone) Limestone; white, fine crystalline, oolitic, fair vugular porosity, slight show of free oil/stain, slight odor. **Included in DST #1, perforate 3235-3239. (51 units hotwire)**

3258-3273: (D Zone) Limestone; cream-tan, fine crystalline, oolitic, dense, trace of vugular porosity, very slight show of free oil/stain, fair odor. **Included in DST #1, log shows this zone to be tight, not worthy of further testing.**

3275-3280: (E Zone): Limestone; white-gray, fine crystalline, oolitic & oolitic, slightly fossiliferous, poor-fair vugular porosity, fair show of free oil, good stain, strong odor. **Included in DST #1, log shows this zone to be tight, not worthy of further testing.**

3286-3300: (F Zone) Limestone; tan, fine-medium crystalline, fossiliferous, fair-good intercrystalline porosity, fair show of free oil/stain, strong odor. **Included in DST #1, log shows this zone to be tight, not worthy of further testing.**

3302-3338: (G Zone) Limestone; white-clear-tan, medium crystalline, oolitic in part, excellent intercrystalline & vugular porosity, good show of free oil, saturated stain, strong odor. **Included in DST #1, perforate 3302-3311. (69 units hotwire)**

DST #1: 3235-3315 (30-45-45-60)

Recovered: 435' gas in pipe,
85' gas & oil cut mud (24% gas, 16% oil, 60% mud)
60' gas & oil cut watery mud (20% gas, 13% oil, 22% water, 45% mud)

IHP: 1566
IFP: 54-55
ISIP: 920
FFP: 50-75
FSIP: 919
FHP: 1535

BHT: 98°F

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3346-3361: (H Zone) Limestone; cream-lt brown, fine crystalline, very fossiliferous, poor-fair intercrystalline porosity, slight show of free oil, saturated stain, strong odor. **Included in DST #2, log shows this zone to be tight, not worthy of further testing. (75 units hotwire)**

3364-3376: (I Zone) Limestone; white, fine crystalline, good vugular porosity, fair show of free oil, good stain, strong odor. Included in DST #2, log shows this zone to be tight, not worthy of further testing. (45 units hotwire)

3378-3396: (J Zone) Limestone; white-cream, fine crystalline, fossiliferous, good vugular porosity, good show of free oil, fair stain, strong odor (gassy on break). Included in DST #2, perforate 3478-3485. (Hotwire 118 units)

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DST #2: 3340-3395 (30-45-45-60)

Recovered: 950' gas in pipe,
63 gas & oil cut mud (18% gas, 26% oil, 56% mud)

IHP: 1628
IFP: 17-26
ISIP: 627 (building)
FFP: 25-38
FSIP: 777 (building)
FHP: 1574

BHT: 96°F

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3400-3418: (K Zone) Limestone; white-tan, fine crystalline, oolitic in part, fossiliferous in part, mostly dense, very slight show of free oil/stain in rare vugular porosity. Included in DST #2, log shows this zone to be tight, not worthy of further testing. (100 units hotwire)

3423-3428: (L Zone) Limestone; cream-tan, mostly dense, some fair intercrystalline & vugular porosity, slight show of free oil/stain, no odor. Log shows this zone to be tight, not worthy of further testing. (24 units hotwire)

REWORKED ARBUCKLE

3482-3496: Dolomitic limestone; white-tan, fine-medium crystalline, poor-fair intercrystalline porosity, slight show of free oil/stain. Chert; white-cream, fresh, sharp, vitreous, poor vugular porosity, some with fair staining, mostly barren. Log shows this zone to be non-productive, not worthy of further testing. (157 units hotwire)

ARBUCKLE

3498-3512: Dolomite, cream-light brown, fine-medium crystalline, rhombic & sucrosic, good intercrystalline porosity, much dense, fair-good show of free oil/stain, strong odor (much white chert). Log shows this interval to be potentially productive, perforate 3498-3505. (100 units hotwire).

Below 3512, show decreased, with about 50% of samples barren with some gilsonite, log calculates wet.

SUMMARY AND RECOMMENDATIONS

Sample and log analysis and the results of drillstem testing indicate that the Lansing-Kansas City B, G & J Zones, as well as the Arbuckle, should be productive. 5-1/2" casing was set at 3596' to further test these zones.

Perforate the Arbuckle @ 3498-3505.
Perforate the J Zone @ 3478-3485.
Perforate the G Zone @ 3302-3311.
Perforate the B Zone @ 3235-3239.

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Respectfully submitted,

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