

15-077-21504

1-31S-8W

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GEOLOGICAL REPORT

AMERICAN WARRIOR, INC.

Marvel #1
1590' FNL & 1030' FEL
Section 1-T31S-R8W
Harper County, Kansas

NW SE NE

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OPERATOR: AMERICAN WARRIOR, INC.

WELL: Marvel #1

API NUMBER: 15-077-21505

LOCATION: 1590' FNL & 1030' FEL, 1-T31S-R8W,
HARPER CO

WELLSITE: WHEAT

COMMENCED: April 22, 2005

COMPLETED: April 30, 2005

ELEVATIONS: 1625' G.L. 1632' K.B.

TOTAL DEPTH: 4850' (DRILLER) 4853' (LOG)

CASING: SURFACE: 8 5/8" @ 250' W/215 SX
PRODUCTION: 5 1/2" @ 4852' W/175 SX

SAMPLES: 20' FROM 1500' TO 3300'
10' FROM 3300' TO T.D.

DRILL STEM TESTS: TWO (2) BY TRILOBITE TESTING

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

DRILLING CONTRACTOR: DUKE DRILLING (RIG 2)

REMARKS: GEOLOGICAL SUPERVISION FROM
1500' TO T.D.

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FORMATION TOPS	LOG	SAMPLE	Nearest Comparison Well Pickrell Wolf #1-D C SW NW NE, 1-T31S-R8W
Indian Cave	2348 (-716)	2346 (-714)	2342 (-710)
Howard	2806 (-1174)	2805 (-1173)	2800 (-1168)
Topeka	2933 (-1299)	2934 (-1300)	2923 (-1289)
Heebner	3384 (-1750)	3380 (-1746)	3370 (-1736)
Lansing	3620 (-1986)	3618 (-1984)	3613 (-1979)
Kansas City	3864 (-2230)	3863 (-2229)	3862 (-2228)
Stark	4020 (-2386)	4018 (-2384)	4011 (-2377)
BKC	4115 (-2481)	4113 (-2479)	4091 (-2457)
Cherokee	4262 (-2628)	Not called	4260 (-2626)
Mississippian	4368 (-2734)	4368 (-2734)	4390 (-2756)
Kinderhook	4639 (-3005)	4633 (-2999)	4635 (-3001)
Viola	4750 (-3116)	4745 (-3111)	4744 (-3110)
Simpson Sand	4771 (-3137)	4769 (-3135)	4767 (-3133)
Total Depth	4853 (-3219)	4850 (-3216)	4786 (-3152)

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SAMPLE DESCRIPTIONS

Log Measurements

INDIAN CAVE

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2348-2374: Sandstone, white to gray, fine to medium grained, well-sorted, slightly glauconitic, fair to good intergranular porosity. No shows of oil or gas were observed in wet samples, no visible staining was observed in dry samples. 8 to 12 unit gas kick.

DST #1: 2333-2360 (30-30-30-30). IF: Weak blow building to 9"; ISI: bled off, no blowback; FF: Weak blow building to 8"; FSI: bled off, no blowback.

Recovered 200' muddy water (73% water, 27% mud). Chlorides: Recovered water- 135,000 ppm; System - 78,000 ppm.

IHP: 1151
IFP: 19-71
ISIP: 901
FFP: 75-118
FSIP: 884
FHP: 1144
BHT: 89

MISSISSIPPIAN

4368-4377: Chert, white bone, weathered, good porosity, light brown stain, no show of free oil; with some light brown dolomite & chert with brown even stain, faint odor, yellow fluorescence. 200+ unit gas kick.

DST #2: 4369-4377 (30-45-45-60). IF: Strong blow, bottom of bucket in 20 seconds, gas to surface in 9.5 minutes; ISI: bled off, very weak surface blow, slowly died; FF: Strong blow, bottom of bucket immediately, GTS immediately; FSI: Bled off, very weak surface blow, slowly died.

Flow Period	Elapsed Time (min)	Choke	Gas Flow Rate
1	1	0.25	46.64
1	5	0.25	70.44
1	10	0.25	103.75
1	15	0.50	333.24
1	20	0.50	313.00
2	5	0.50	296.14
2	10	0.50	339.98
2	15	0.50	360.22
2	20	0.50	370.34
2	25	0.50	373.71
2	30	0.50	380.46
2	35	0.50	387.20
2	40	0.50	390.57
2	45	0.50	393.95

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Recovered: 70 feet of slightly gas cut watery mud (2 % gas, 33% water, 65% mud) - (40,000 ppm chlorides – 5,000 ppm system).

IHP: 2155
IFP: 25-90
ISIP: 1478
FFP: 82-110
FSIP: 1455
FHP: 2114
BHT: 108

4377-4411: Chert, white to light brown, tripolitic, good pinpoint-vugular porosity, slight show of free oil & gas and good odor in wet samples, fair to good staining in dry samples. 200+ unit gas kick.

4411-4448: Chert, fresh, vitreous, abundant shale, no visible show of free oil or staining. 200+ unit gas kick.

4448-4480: Chert, mostly fresh, with some gilsonite staining, abundant shale. 200+ unit gas kick.

4480-4520: Limestone, white, sucrosic, slightly chalky, with fair to good pinpoint porosity, no show of free oil/gas or staining observed. 200+ unit gas kick.

VIOLA

4750-4762: Dolomite, light brown, sucrosic, good intercrystalline porosity, slight show of free oil on break, faint odor, cherty in part, mostly tight, increase in chert with depth.

SIMPSON

4771-4882: Sandstone, clear, well-sorted, friable, excellent porosity, almost entirely individual well-rounded quartz sand grains, no visible show of free oil or stain.

SUMMARY AND RECOMMENDATIONS

Structurally, the Marvel #1 ran low to the nearest producing well (Pickrell's Wolf D#1 in most of the Pennsylvanian horizons. However, considerable thinning occurred in the lower Pennsylvanian, such that at the Cherokee, the well was only 2 feet low to the Pickrell well. Thinning continued through the Cherokee, and the top of the Mississippian unconformity was then 22 feet high to Pickrell's well. Drill stem testing of the Mississippi Osage chert indicated good oil and gas potential, with a net pay of about 30 feet. Based on the results of the drill stem test and log analysis, associated water production can be expected over the life of the well.

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Although the Mississippian was encountered high to nearby production, the Viola and Simpson ended up being 6 feet and 4 feet lower than the Pickrell Wolf D#1. The nearest Simpson Sand production is from American Energies' Fox #1A, a little over 1 mile to the northeast. The Simpson in the Marvel #1 was 7 feet lower than the American Energies Simpson producer. Log calculations indicate that the Simpson is wet in the Marvel #1.

Based on the results of DST #2 and log analysis, it was recommended and agreed that 5 ½ inch casing be set one foot off bottom in order to produce the Mississippian. It is recommended that the Mississippian be perforated from 4368-4375. After treatment with acid, the well should be fracture stimulated. If initial water production warrants it, the Simpson Sand should be perforated from 4790-4820 as a dual completion for water disposal.

Respectfully submitted,

Steven P. Murphy, P.G.