

15-135-24067

ORIGINAL

SCOTT CORSAIR

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GEOLOGICAL REPORT

AMERICAN WARRIOR, INC.

WITTHUHN #3-35
160' SW OF C NW SW SW
Section 35-18S-21W
Ness County, Kansas

STATE OF KANSAS
COMMISSION

JUL 11 1996

COMMISSIONER
Ness County, Kansas

OPERATOR: AMERICAN WARRIOR, INC.
 WELL: WITTHUHN No. 3-35
 API NO.: 15-135-24067
 LOCATION: 160' SW OF C NW SW SW, SEC. 35-18S-21W
 WELLSITE: FARMGROUND
 COMMENCED: DECEMBER 9, 1998
 COMPLETED: DECEMBER 16, 1998
 ELEVATIONS: 2189' GL ; 2197' KB
 TOTAL DEPTH: 4500' (DRILLER); 4502 (LOGGER)
 CASING: SURFACE: 8 5/8 @ 209' W/145 SKS
 PRODUCTION: 5 1/2 @ 4496' W/125 SKS
 PORT COLLAR @ 1385
 SAMPLES: 10 FT. FROM 3600' TO T.D.
 LOGS: DUAL INDUCTION, DUAL COMPENSATED
 POROSITY, BOREHOLE COMPENSATED SONIC, BY
 LOG-TECH
 DRILLSTEM TESTS: ONE BY TRILOBITE TESTING
 CONTRACTOR: DISCOVERY DRILLING (RIG 1)

REMARKS: Geological supervision: 3600' - T.D.

FORMATION TOPS	ELECTRICAL LOG SUBSEA		SAMPLES SUBSEA	
Anhydrite	1394	+803	1401	+796
Heebner	3639	-1442	3642	-1445
Lansing	3683	-1486	3687	-1490
Base Kansas City	4000	-1803	4002	-1805
Marmaton	4018	-1821	4022	-1825
Pawnee	4088	-1891	4089	-1892
Ft. Scott	4152	-1955	4152	-1955
Cherokee Shale	4171	-1974	4169	-1972
Mississippian Osage	4242	-2045	4242	-2045
Mississippian Gilmore City	4342	-2145	4343	-2146
Viola	4436	-2239	4436	-2239
Total Depth	4502	-2305	4500	-2303

STATE OF KANSAS

JUN 10 1999

IHP 2255
 IFP 264-737
 ISIP 1433
 FFP 730-1051
 FSIP 1432
 FHP 2170

FORMATION	AMERICAN WARRIOR, INC. Witthuhn #3-35 160' SW, C NW SW SW 35-18S-21W	AMERICAN WARRIOR, INC. Witthuhn #2-35 210' SW, C W/2 NW SW 35-18S-21W	AMERICAN WARRIOR, INC. Witthuhn #1-35 100' N, C NW SW NW 35-18S-21W
Anhydrite	+803	+798	+802
Lansing	-1486	-1489	-1493
Cherokee	-1974	-1971	-1974
Mississippian Osage	-2045	-2040	-2044

SUMMARY AND RECOMMENDATIONS

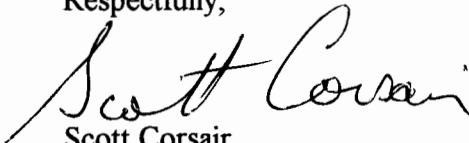
Structural position and Electrical log analysis indicate probable commercial production from the Mississippian Osage and Cherokee. Based upon available data 5 1/2" production casing was set.

Pipe was set 4 feet off bottom @ 4496'. The following zones are recommended for testing.

1. Mississippian Osage: 4246-4250
2. Cherokee Sand: 4212-4218
3. Cherokee Sand: 4192-4196
4. Cherokee Sand: 4182-4187
5. Ft. Scott: 4154-4160 (before abandonment)

Measurements were taken from rotary kelly bushing (8 feet above ground level). Logger's measurements are taken as correct.

Respectfully,


 Scott Corsair
 Petroleum Geologist

State of Texas

JUN 1

Oil and Gas Division
 REGISTRATION

SAMPLE ZONE DESCRIPTION

Logger's Measurements

LANSING-KANSAS CITY 3683 -1486

There were no shows of oil/gas observed in the porous zones during the drilling of the Lansing-Kansas City section.

Marmaton 4018 -1821

There were no shows of oil/gas observed during the drilling of the Pawnee section.

FT. SCOTT 4152 -1955

4152-4160, Limestone: gray to tan, slightly fossiliferous, poor porosity, very slight show of free oil, fair fluorescence and good cut, no odor.

CHEROKEE 4171 -1974

4182-4187, Sandstone: clear, poorly sorted, fine grained, friable clusters, very slight show of free oil, poor fluorescence, good cut when broke.

4192-4194, Sandstone: as above.

4210-4228, Sandstone: clear and frosted, fine grained, poorly sorted, few clusters with fair show of free oil, good fluorescence, excellent cut, increasing loose grains with depth.

MISSISSIPPIAN OSAGE 4242 -2045

Chert: white, weathered tripolitic, excellent vuggy porosity, good show of free oil, excellent fluorescence and excellent cut, good odor. Trace of Dolomite: brown, sucrosic, good show of free oil, good porosity.

VIOLA 4436 -2239

Dolomite: gray, crystalline, good intercrystalline porosity, no show of oil, slight cut fluorescence.

Drill Stem Test No. 1: 4432-4455 /20-30-20-30/ Weak blow building to a strong blow in 1 minute during the initial flow; Weak blow building to a strong blow in 1 minute, Recovered 2260 feet of total fluid, 240 feet of muddy salt water, 2020 feet of clean salt water.