THOMAS M. McCAUL
PETROLEUM GEOLOGIST
BITTING BUILDING
WICHITA 2, KANSAS

October 16, 1951

Re: Alpine Oil & Royalty Co.,Inc.
No. 1 Stueder SE SE SE
Section 36, T 17, R 12 W
Barton County, Kansas

Return To
ALPINE OIL & ROYALTY CO., Inc.
BITTING BLDG.
WICHITA, KANSAS

Alpine Oil & Royalty Co.,Inc.
1100 Bitting Building
Wichita, Kansas

Gentlemen:

Following is a report on your No.1 Stueder, a wildcat test located in Section 36, Township 17, Range 12 West, Barton County, Kansas.

Elevation (RB)	1827	
Heebner	2939	-1112
Brown Lime	3047	-1220
Lansing	3063	-1236
Conglomerate	3320	-1493
Arbuckle	3373	-1544
Total Depth	3381	-1554

The above formation tops have been picked from the samples and time log. There were several zones of porosity in the Lansing - Kansas City section. They are as follows:

3067 to 3071 - Tan finely crystalline fossiliferous limestone. Poor pin-point porosity, no odor, slight stain, trace of free oil in wet samples.

3076 to 3079 - Tan finely crystalline limestone, poor porosity, fair spotted stain, no odor, trace of free oil in wet samples.

3087 to 3094 - Buff oölitic limestone. Poor to fair porosity, fair spotted stain, no odor, trace of free oil in the wet sample.

A drill stem test was taken from 3066 to 3100 feet, the tool was left open one (1) hour, it had a weak blow for twenty-three (23) minutes and then quit. It recovered eighteen (18) feet drilling mud with a bottom hole pressure of zero.

3108 to 3112 - Tan finely crystalline limestone, poor pin-point porosity, poor spotted stain, faint odor, trace of free oil in wet sample.

3126 to 3135 - White to tan finely crystalline fossiliferous limestone, poor broken porosity, no odor, very slight spotted stain.

3149 to 3157 - Buff oölitic and oölicastic limestone. Fair porosity, no odor, no stain. It is the writer's opinion that this zone is carrying water.

3164 to 3170 - Buff oölitic limestone, poor porosity, no odor, no stain.

3195 to 3203 - Buff medium crystalline, oölitic limestone, poor to fair porosity. No odor, no stain.

3225 to 3238 - Buff oölitic and oölicastic finely crystalline limestone. Poor to fair porosity. No odor, no stain.

3250 to 3263 - White to tan finely crystalline and oölitic limestone. Poor to fair vugular porosity. A good stain, no odor, with lots of free oil in the wet sample.

A drill stem test was taken from 3239 to 3264 feet, the tool was open one (1) hour and had a fair blow throughout the test and recovered 125 feet of oil cut mud. Bottom hole pressure 710 pounds.

3289 to 3294 - Buff oölitic finely crystalline limestone. Poor porosity, no odor, no stain.

The Conglomerate was reached at 3320 feet and consisted of various colored shales and cherts. This section had no shows of oil.

The Arbuckle was reached at 3371 feet and consisted of a white dense finely crystalline dolomite. There was none to very poor porosity with no odors and no stains.

Structurally this well on the Lansing is three (3) feet higher than the dry hole one-half mile to the southeast which had good shows of oil in the Kansas City.

With these facts in mind casing was recommended to be set at 3379 feet.

A condensed copy of the time log is attached to this report.

Yours very truly,

Lawrence F. Gray

Lawrence F. Gray - Geologist

LFG:cjw