F. W. MORGAN
GEOLOGIST

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Dec. 23, 1977

Watson Petroleum, Inc.
403 Hillcrest
Wichita, Kansas

Re: No. 2 Warren
Sec. 1-35S-1E
Sumner County, Kansas

Gentlemen:

Enclosed is my geological report on your No. 2 Warren well. Included on the log are drilling time, sample descriptions, drill stem test and core information, sample and electric log tops and data, and porous zones and shows of oil and gas.

The first zone evaluated is the Stalnaker which was successfully drill stem tested. The electric log confirms the appearance of the samples and test. Porosities range from 17% to 20% and water saturations from 37% to 47% from 2,360 to 2,370 which is indicative of oil production. Below 2,370 the production would probably be water with some oil. There is probably gas in the top of this zone.

The other zone evaluated is the Layton Sand. Visual inspection of the core from 2,843 to 2,853 showed it to be a fine, laminated, shaley, micaceous sand with some levels where a little porosity and oil shows were found but with barren places lacking in porosity or oil shows. Porosity ranged from 14% to 17% at 2,841 to 2,845 with water saturation of 55%. This is barely prospective, but below this depth water saturations run from 85% to 90% with porosities from 14% to 20%. I do not consider the Layton Sand to be prospective in this well due to appearance of the core, samples, or log.

Accordingly, casing was run to produce the Stalnaker.

Sincerely,

F. W. Morgan