F. W. MORGAN
GEOLOGIST

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Oct. 4, 1977

Watson Petroleum, Inc.
403 Hillcrest
Wichita, Kansas

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

Gentlemen:

Enclosed is my geological log on the Warren. On the log are sample and log tops, drilling time, lithology, core interval and description, drill stem test information, zones of porosity, and shows of oil.

On this prospective well there were originally four zones in which we felt we might expect shows of oil and production. These were the Stalnaker, Layton, Cattleman, and Mississippiah.

We got the Stalnaker Sand about 2 or 3 feet lower than the nearst well. There were shows of oil and gas which were evaluated by drill stem test and log. The results indicate that with some stimulation a small well can be obtained.

The Layton ran about the same and was cored. Results of analysis and log indicate an excellent well and reserves with a thick (for Layton) pay section.

Of the four the Cattleman alone did not indicate commercial production to any extent. It was thin and exhibited only a fair show with dull fluorescense. It probably will not produce.

The Mississippian ran quite high and showed good porosity and oil shows. The drill stem test indicates low permeability, but with proper stimulation it should produce or if deepned may produce naturally. This has been the major reservoir in the pool.

Casing was run and cemented to test all these zones.

Sincerely,

F. W. Morgan