

F. W. MORGAN

Geologist

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Basin Petroleum Corporation
545 Lst. National Bldg.
Oklahoma City, Okla.

Re: Your No. ~~35~~-8 Caster
Sec. 35-33S-2E
Sumner County, Kansas

Gentlemen:

Enclosed is my geological log on the Caster well. On the log are plotted drilling time, cores, lithology, formation tops, and porosity and oil shows.

From a comparison of drilling time, samples, and electric log this well appears to be more like No. 7 Caster than any other well in the field. There was a correction of 2 feet up the hole from drillers' measurements to log, and this makes this well some 3 or 4 feet higher than No. 7. Core analysis on No. 7 and log interpretation gives about 14% porosity in each. Water percentage in No. 7 from the core averages 41%, and it is a producer. Water percentage on the No. 8 log is 63%. This is probably due to the high shale content of the sand which may be discounted in the core.

It is my opinion that from the top of the porous sand at about 2694 to about 2702 there is productive sand. The base of this interval in No. 7 shows almost 0 permeability in the core, and appears identical on the log to No. 8. So I am of the opinion that the water line on your log may be due, partly at least, to connate water trapped by low permeability, and that you will get production above.

The "B" sand found at 2761 on my log had a slight show of oil, but is most probably water productive.

If you need further information please do not hesitate to call.

Sincerely,



F. W. Morgan