

F. W. MORGAN
GEOLOGIST

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March 19, 1994

WICHITA OFFICE 685-6361
COYVILLE OFFICE 692-5473

Razook Oil Company
R. R. # 1
Augusta, Kansas, 67010

Re: No. 4 Born "A"
Sec. 34-34S-5E
COWLEY COUNTY, KANSAS

Gentlemen:

Enclosed is my geological log on this well. The well ran flat with No. 3 Born "A" on all subsurface markers down to and including the top of the Cleveland Sand Zone which we found at a depth of 2624'.

However, there was no porosity or show of oil in the zone, a situation which we found only in No. 2 A. The top part of the main sand body was also very poor with only dull fluorescence and no odor. From about 2644' to 2655' the porosity and oil and gas shows were comparable with those seen in your other Born "A" wells. This is the zone I recommend that you perforate.

The top of the Marmaton was more than 40 feet lower than the nearest well completed in the Mississippian, so we did not drill to it. Total depth was 2704', and casing was run to 2701'.

Sand intervals for water disposal or supply are: Stalnaker - 2030 to 2095 and Layton - 2357 to 2412'.

Sincerely,


F. W. Morgan

