

F.W. MORGAN
GEOLOGIST

WICHITA OFFICE 685 - 6361

1721 PARKWOOD LANE WICHITA, KANSAS 67218

FREDONIA OFFICE 378 - 3056

April 23, 1977

Mr. Jimmy Razook
2101 E. 21st. St.
Wichita, Kansas

Re: Your No 9-A Razook
Sec. 10-27S-4E
Wichita, Kansas

Dear Sir:

Enclosed is my geological log on the 9-A well. On the log are drilling time, sample descriptions, formation tops, porous zones, and oil shows. Structurally this well ran flat with to 5 feet higher than the nearest well - 5-A. Below are listed formations and depths where commercial shows of oil were logged:

Haskell Lime depths 1618' to 1623'.

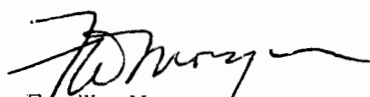
Lansing Lime 1728' to 1732'.

Kansas City Lime 2025' to 2030'.

Simpson Sand 2513' to 2518', total depth.

Casing was run and cemented at 2513 feet to test the Simpson Sand and enough cement was used to protect the other zones listed above.

Sincerely,


F. W. Morgan

April 18, 1977

DMN.B. Drilling Co.
701 First Nat'l. Bank Bldg.
Wichita, Kansas, 67202

Re: Razook 9 & 10 "A" wells
Sec. 10-27S-4E
Butler County, Kansas

Gentlemen:

Following are the geological instructions on the above two wells:

Samples: Catch 10 foot samples from a depth of 1,600 feet to the total depth. Sack these samples wet. Check each one for odor and write "odor" on drilling time if found.

Drilling Time: Transfer drilling time from geolograph to time sheets from a depth of 16600 feet to the total depth.

Call Depth: Call 685-6361 each morning if I am not at well. Also call me at 1,575 feet at the same number.

Stop Depth: Stop at 2,500 feet if I am not present at the well.

Drilling Mud: Mud should be carried at about 35 viscosity from 1,600 feet to 2,500 feet and 42 viscosity at 2,500 feet.

Sincerely,

F. W. Morgan