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U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

February 14, 1977

New Mexico Oil Conservation Commission  
P. O. Box 3  
Santa Fe, New Mexico 87501

Att: Mr. Richard L. Stamets

Re: Thornton Hopper  
Application for SWD  
Black River (Delaware)  
Eddy County, N. Mex.

Dear Sir:

Enclosed is a letter from Mr. Jack C. Givens, President of Vann Tool Co., Artesia, New Mexico, to me in explanation of the log run on Bradley Federal #6, Eddy County, New Mexico on 2-5-77.

Continental Oil Co. is operating the Ford-Geraldine Field (Delaware) Unit as a water flood project. The unit is in Texas, four miles south of the state line, and approximately sixteen miles southeast of the Black River (Delaware) Field. It has been in full operation for three or four years. The pay is Delaware sand at an approximate depth of 2500'. The field contains some 300 wells and has been only partially completed. They are in the process of extending the flood to other portions at this date. They are using a constant pressure of 1,000 psi. on the system at the surface. They have had no cement bond failures with loss of fluid above the top of the Delaware sand. They have had one or two instances when remedial work was done, but only to contain injection fluid to a specific zone of the pay section.

It will require 350 to 400 psi. to inject water into Bradley Federal #6. From experience, I believe the pressure will rise to between 500 and 600 psi. after injecting for a while.

Based on the bond log and the water flood pressures, I would like to request that a maximum pressure of 800 psi. be allowed for this well. I believe this pressure to be reasonable and essential for a good disposal system.

Should you think it necessary for me to deepen the well by fifty or sixty feet for your approval of the pressure request; I will do so as soon as I receive your reply.

Yours truly,

Thornton Hopper

cc: USGC and NMCC offices, Artesia,, New Mexico