



# United States Department of the Interior

GEOLOGICAL SURVEY  
12201 SUNRISE VALLEY DRIVE  
RESTON, VIRGINIA 22092  
Mail Stop #432

May 15, 1974

Ms. Margaret Ann Rogers  
Group HA, Mail Stop 522  
Los Alamos Scientific Laboratory  
Los Alamos, New Mexico 87544

Dear Ms. Rogers:

Attached, per your request, are several offprints of key papers on the  $C^{14}$  dating of ground waters. Key papers on the use of stable isotopes to define regional hydrodynamics are cited in the bibliography of my GSA paper which you already have. The effects of dispersion on dating ground waters is succinctly summarized by A. Nir in Jour. Geophys. Res., v. 69, no. 12 (June 1964), p. 2589-2595; this is a must paper.

Good luck with your isotopic study of the Pajarito Plateau and environs.

Very truly yours,

*Isaac J. Winograd*

Isaac J. Winograd  
Hydrologist

Encl.



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General