

OFFICE MEMORANDUM

TO : File

DATE: June 6, 1978

FROM : Margaret Anne Rogers, H-12 *MAR*

SUBJECT : ACTIVITIES MAY 1978

SYMBOL : H12-78-153

MAIL STOP: 490

1381 Report

Forty-three percent of my time this month was spent in talking with various people on various subjects. Down 5% from last month. Six percent was spent in proofing reports. Eight percent was spent working on the microprobe. Twenty percent (up 6%) was spent on the map per se. Nine percent was spent on the joint study.

Work During May 1978 toward objectives (4) description of the geologic, biologic, and hydrologic pathways by which releases might occur.

Stratigraphy on the Pajarito Plateau was discussed with Roy A. Bailey of the Field Geochemistry and Petrology Division of the U.S.G.S. His work in the Jemez Mountains includes the plateau. Some of the work done by him and his co-workers has been published; much of it is left to be published in the indefinite future. A415 program needs will not allow LASL to wait for its publication. Although contact with the U.S.G.S. is being maintained, information from the U.S.G.S. is minimal.

Mapping of the LASL environs continued. The most recent geologic map (1970), which includes the Pajarito Plateau is that of the Jemez Mountains by R. L. Smith, R. A. Bailey, and C. S. Ross of the U.S.G.S. Scale of their map is one inch equals two miles with a topographic contour interval of 100 feet. Scale of the LASL map will be one inch equals 400 feet with a contour interval of 10 feet.

Writing the report on the joint study in the LASL environs was begun. The joint study was undertaken to see if it was possible to distinguish between tectonic fractures and cooling fractures in the Bandelier Tuff, the rock unit in which all LASL waste disposal sites are located. Cooling fractures will have less vertical extent than tectonic fractures. The determination that most observed fractures are the result of ash flow cooling and not the result of tectonic adjustment related to the Pajarito Fault Zone would increase our confidence in the limited migration (if any) of radionuclides from the LASL waste disposal areas.



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Work During May 1978 toward objective (5) testing, followed by implementation, of various methods for environmental surveillance at the burial sites.

"Geologic Description of Cores from Holes P-3 MH-1 Through P-3 MH-5, Area G, Technical Area 54" was proofed.

MAR:tj

cc: Dan Wilson
Merlin Wheeler
Willy Abeelee
Tony Gallegos