

OFFICE MEMORANDUM

TO : Dean D. Meyer, Group Leader, H-1
THRU : William R. Kennedy, Group Leader, H-6
FROM : William D. Purtymun, H-6
SUBJECT: MATERIALS DISPOSAL AREA "G", PIT NO. 6
SYMBOL : H-6

DATE: October 23 1969

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An inspection was made of the new disposal pit, Area "G", Pit No. 6 on September 24 and October 9, 1969. The disposal pit is about the same dimensions as previous pits dug in the area, 100 feet wide, 600 feet long, and about 25 feet deep. The long dimension is about east-west with access ramps to the east and west.

The soil cover averages about one foot thick around the edges of the pit; however, in some places the soil has been stripped to the top of the tuff. The pit is completed within a single ash flow which is tentatively correlated with Unit 2b at the Meson Facility and at Mortandad Canyon. The tuff is moderately welded, light gray in color. It is fairly competent though several blocks have fallen from the north and south walls due to intersecting of joints within the wall.

The majority of the joints range from vertical to about 60 degrees from horizontal. The joint frequency averages about one joint per six foot along the pit wall. Orientation of 190 joints showed three major joint sets. Twenty-four percent of the joints were orientated from N. 20° W. to N. 50° W.; 17 percent were orientated from N. 50° E. to N. 70° E.; 15 percent were orientated from N. 10° W. to W. 10° E.; the remaining 44 percent of the joints were of random orientation. Beneath the soil zone joints in the tuff are filled with dark brown clay derived from weathering of the tuff. The joints in the tuff range from closed to open as much as one inch and are filled or plated with light gray clay or precipitate which in places contains some organic material from roots. Orientation of the joints and joint openings are about the same as in the tuff exposed in other pits in the area and should pose no problems in disposal of wastes.

The pit is suitable for the disposal of solid or package wastes as it meets the guidelines for pit construction as



TO: Hon. W. Heyen

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DATE: October 20, 1960

summarized in a letter to G. H. Russo, RUC-3, dated June 30, 1960 from F. C. Koopman, U. S. Geological Survey. For future reference we have on file a series of photographs showing the walls of the pit.

If we can be of further assistance, please contact us.

~~William D. Burdette~~

WDF:DJG