LITHOLOGIC LOG

Project: Deeth

Hole: 1030-1

Elevation: 5550 ft (1692m)

Date Drilled: November 21, 1979

Location: SW/NE 8, T38N, R59E

Method: Air-foam

Geologist: Tower/Shenker

Gamma: 120 cps

Depth (m)	Description
0-25m	Interval is dominated by a greenish light brown, strongly decomposed tuff. This tuffaceous material is manifest in two ways; as silty clay, and as fragments (sand and granule size) which are extremely incompetent. Other lithic fragments, predominantly volcanoclastic, are abundant at the surface and decrease in percentage rapidly with depth. Quartz represents about 10% of this interval. Unit is unconsolidated volcanoclastic sediments.
25-45mTD	Brown to gray-brown alluvium. Dominated by coarse sand and granules. Gravel varies from 5-25% of total coarse fraction. Fragments are mostly angular to sub-angular and are predominantly of mixed volcanic composition.

Comments: The original nature of the greenish light brown tuff is difficult to determine, i.e. whether or not the unit was lithified. The presence of euhedral quartz and mafic mineral grains in the clayey matrix may be an indication of formation temperatures sufficient for at least partial welding. Ground water was encountered in the lower alluvial unit, however, it is not known whether there is an artesian head. Duplicate samples for conductivity (k) value determinations were collected at 20 ft (6.1m), 50 ft (15.2m), and 70 ft (21.3m) and 140 ft (42.7m).