

LITHOLOGIC LOG

Project: Deeth (1030)

Hole: 1030-3

Elevation: 5805 ft (1769m)

Date Drilled: November 21, 1979

Location: NW/SE 14, T38N, R58E

Method: Air-foam

Geologist: Tower/Shenker

Gamma: 120 cps

Depth (m)	Description
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0-12m	Alluvial granules, sand, and gravels, sub-angular, sub-rounded and rounded. Fragments are mostly lithic though quartz grains comprise about 50% of the upper 3m. Lithic fragments are a mixture of metamorphic rocks, mostly quartzite and argillite (?). A few volcanic fragments are found near the ground surface.
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12-30m	Interval contains a greenish brown silty clay varying from 25 to 80% by volume. This fine grained (presumably alluvial) material is found as a matrix for granules, sand, and small gravel of the same mixed metamorphic composition found in the 0-12m interval. Unit is reworked volcanoclastic/metamorphic sediments
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30-67m TD	Dominantly granules, sand, and gravel (generally in that order of abundance) of mixed metamorphic composition. A small amount (up to 20%) of greenish brown, silty clay is found in places.
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Comments: Sequence seems to be alluvial with variations in particle size distributions due to changes in the energy of the depositional environment. Duplicate samples for conductivity (k) value determinations were collected at 30 ft (9.1m), 70 ft (21.3m) 120 ft (36.6m) and 180 ft (54.9m).