

LITHOLOGIC LOG

Project: Mt. PrincetonHole 640-40Elevation: 8,290Date Drilled: 10/22-10/23/79Location: SENW7, T51N, R8EMethod: mudGamma: 125 cps.

Depth (m)

Description

0- 6	Quartz-monzonitic/granitic debris with quartz, plagioclase, biotite, some k-spar and dark lithic fragments (probably metamorphic rock). Size distribution is 85% granule, 10% sand, 5% fines. Grains are sub-rounded. Unit is a slightly sandy alluvial gravel.
6-12	Composition unchanged, size distribution is 60% sand, 30% fines, 10% granules. Unit is a gravelly, clayey sand.
12-21	Composition unchanged. Size distribution is granules 60%, sand 30%, fines 10%. Unit is a sandy gravel.
21-42	Composition unchanged. Size distribution is 80% sand, 10% granules, 10% fines. Unit is gravelly sand.
42-90	Composition unchanged. Unit is alluvial sand, with minor fines @63-65m.

Comments: Hole 40 was drilled on the middle of an alluvial fan. Some hard drilling was encountered in the upper gravel, but after 21m the section is mostly sandy alluvium and drilled easily.

LITHOLOGIC LOG

Project: Mt. PrincetonHole 640-39Elevation: 8,150Date Drilled: 10/10/79Location: NWSW28, T15S, R78WMethod: mudGamma: 140 cps.

Depth (m)	Description
0-21	Quartz-monzonitic/granitic debris, with quartz, plagioclase, biotite, k-spar and some limonite. Size distribution is 75% granules, 15% fines and 10% sand. Cuttings are angular to subangular. Rhyolite fragments are present (≈5%) @20m. Unit is a variably sandy boulder till.
21-33	Composition unchanged. Size distribution is 50% medium to coarse sand, 30% granules, 20% fines. Unit is bouldery outwash sand.
33-90	Composition unchanged. Size distribution is 50% fines, sand 40-50%, granules 0-10%. Unit is clayey alluvial sand.
	<p>Comments: Hole 39 was drilled adjacent to a probable lateral moraine on the old Chalk Creek flood plain. After penetrating boulder till @21m, the remaining section encountered was outwash and alluvium.</p>