GEOLOGIC LOG
CAPE ROSIER MINE
D. D. Hole 3

Collar:	N 4270, E 4260	Course:	N 70 W Mag.
Elevation:	10'	Average Angle:	37°
		Depth:	350 Ft.

From	To	
0'-0"	23'-0"	Unconsolidated.
23	46.5	Rhyolite (?), light gray, with small white feldspars, which are not fresh, darker gray where less fractured. Fractured, silicified and bleached along fractures. (Probably diorite, S.B.L. 11-26-42).
46.5	76.5	Rhyolite agglomerate, silicified locally, fractured and sheared. In part the agglomerate fragments are an inch or so across.
76.5	111	Diorite, finer grained near 76.5, (pyrrhotite) veinlet near 76.5), coarses grained near center, then finer grained again near 111'. Massive, some irreg. veins of white carbonate in 80'-100'.
111	136	Rhyolite, light gray with small white feldspars that are not fresh. Sheared or flow structure, foliated to some extent.
136	215	Rhyolite agglomerated? sheared, residual fragments several m.m. across. Disseminated pyrite, sparse; considerable light gray - dark gray-green streaked to 161'.
		161-166 Dark gray-green chlorite schist with schistosity angle 55°-65° to axis of core.
		166-169 Heavy sulphides. The ore is in schisted rodk, containing much talc and some white carbonate. More talc and less dark green chlorite than in 161-166. "Ore" - sphalerite, chalcopyrite, pyrite, talc, white carbonate.
		(SAMPLE 19: Zn 4.4%, Cu 1.5%, Pb 0.9%)
		169-176 Like above but leaner. Oxidized to limonite and possibly some oxidized Zn mineral. Leached cavities, much broken core.
		176-177.2 Rhyolite agglomerate, little sheared, fragments in it.

From	To		
		177.2-181	Much broken talcy, and chloritic 179 Sphalerite, 1", good. 179.3 Chalcopyrite, over 6", irreg. veining.
		181-183	Diorite, very fine grained massive.
		183-191.3	Talc and chlorite schist, some white carbonate, very minor disseminated sphalerite. (At 190' sphalerite diss. and veining along angle of schistosity, 45° to axis of core.)
		191.3-194.3	Ore, sphalerite, galena, chalcopyrite, some pyrite fine grained massive, mixture, white carbonate and talc. The lower grade ore shows banding with schist (angle 45° to axis of core).
		(SAMPLE 8:	Zn 23.8%, Cu 2.0%, Pb 11.5%).
		194.3-196	Very dark gray-green chlorite schist, becoming lighter gray (talcy) from195-196 at the ore.
		196.9-201.7	Ore, 196.9-199.5 Zinc ore massive, very rich, in part richer in Zn than Sample 8. Sphalerite very dominant in chalcopyrite.
		(SAMPLE 9:	Zn 5.8%, Cu 8.2%, Pb 2.6%).
			199.5-201.7 Copper ore, chalcopyrite - pyrite in very dark gray-green chlorite schist; sphalerite is very minor. This copper ore is diss. or distributed through the very dark schist. Angle of schistosity (in ore) 70° to axis of core.
		202-203	Diorite, massive, fine grained.
		203-215	Very dark gray-green chlorite schist, with considerable disseminated pyrite, some chalcopyrite and local sphalerite. At 209 sphalerite crystals rimmed by talc (talc blades perpendicular to ZnS) Occasional rhy. aggl. residual fragments begin to appear near 215.
215	320	Rhyolite agglomerate, sheared and somewhat schistose near 215. In general, light gray with darker green wisps or streaks.	
		215-230	Original fragments numerous near 220'.

Cape Rosier Mine, D. D. Hole 3 (Cont'd)

From	To	
		Near 235 still sheared some, but fragments numerous and up to several inches and more in size. 6" of very dark gray-green chlorite schist at 279'. Sphalerite, minor chalcopyrite, heavily diss. over 3" to 285', in but slightly sheared rhyolite aggl.
320	348	Very dark gray-green chlorite schist, near 320 some bands containing lath shaped white feldspars, at 324-348 the uniform very dark gray-green chlorite schist without sulphide mineralization.

Angle of Hole:

At o': 35°
At 350': 40°