GEOLOGIC LOG
CAPE ROSIER MINE
D. D. Hole 19

Collar: N 4855, E 4860
Elevation: 8

Course: N 54 W Mag.
Average Angle: 66
Depth: 289 Feet

From	To	
0'-0"	8'-8"	Overburden; boulders, including granite and basalt.
8-8	23	Diorite; upper border eroded, to judge from grain; lower border chilled.
23	93-9	Agglomerate. 23-35 Chiefly light greenish grey; vitreous, very hard; evidence of large bleached fragments. 35-93-9 Matrix increasingly abundant and green, streaked, with numerous white rectangular metacrysts; angles about 50°; this is sheared agglomerate. Fragments chiefly white, angular, 2 mm to 2 cm. Angles: at 70', 35°; at 80', 80°.
93-9	98-9	Diorite; very fine grained throughout.
98-9	102	Agglomerate; blue-green, not distinctly streaked; thin carbonate veinlets; sharp contact with chilled diorite below, at 38°.
102	133	Diorite, chilled borders; central portion 2mm grain.
133	138	Agglomerate; hard, grey at contact; sheared 65°.
138	238-6	Altered sheared agglomerate; talc, chlorite, carbonate and mineral. 138-139 chlorite; green black 139-140 highly chloritic agglomerate 140-141 ore: massive sphalerite with minor chlorite gangue. Angles 35-40°; minor chalcopyrite. SAMPLE 34: 140 to 141: 19.8% Zn 0.9% Cu 0.4% Pb. 141-143 highly chloritic agglomerate; angles 45°.

From	To	
		143-144-8 Chiefly white carbonate, minor talc.
		144-8-145-8 Ore; massive, spongy and disseminated sphalerite; some carbonate, traces chalcopyrite.
		SAMPLE 38: 144-8 to 145-8 12.3% Zn 1.4% Cu 1.7% Pb.
		145-8-195 Pale green talc and white carbonate. The carbonate appears to be later than the brecciated, veined, partly replaced talc. Minor chlorite locally. Angles about 40°. Sporadic fine-grained sphalerite and traces of chalcopyrite in the talc, but not in the carbonate. Few concentrations of sphalerite; as, for example, 154-4 to 155. Est. Zn 10-15%. Sporadic sphalerite throughout; but not ore.
		195-202 Very dark green schistose chlorite with talc and minor carbonate patches. Few talc-rimmed sphalerite spots.
		202-208 Pale green talc, and carbonate.
		208-216 Green talc (and chlorite?); irregular break.
		216-238-6 Pale green talc and white carbonate. As above the angular talc appears as a breccia healed or being replaced by carbonate matrix. Fine grained sphalerite in streaks conformable at 40°-5 °, sporadic throughout. Particular concentrations of sphalerite and traces chalcopyrite.
		SAMPLE 39: 223 to 224 11.1% Zn 1.1% Cu 0.0% Pb.
		SAMPLE 40: 228 to 22905 6.7% Zn 0.7% Cu 0.8% Pb.
238-6	239-4	Identification uncertain; grey, fine-grained, hard; may be silicified agglomerate; or a diorite tip.
239-4	241-4	White coarse quartz and calcite. Vein at about 20°.
241-4	258-6	Altered sheared agglomerate, mineralized. Dark green green, pale green and white, mottled and streaked (at about 40°) - talc-chlorite-carbonate; with sporadic fine-grained disseminated sphalerite, in some cases sufficiently concentrated to make ore.

Cape Rosier Mine, D. D. Hole 19 (Cont'd)

From	To	
		SAMPLE 41: 242-2 to 246 5.2% Zn 0.1% Cu 0.3% Pb. SAMPLE 43: 254-6 to 258-6 18.9% Zn 7.7% Cu 0.5% Pb.
258-6	270	Agglomerate, greenish grey, very hard, compact, but sheared, fragments chiefly white angular, up to 2 cm. No trace of sulfides.
270	289	Agglomerate, coarse, massive; fragments up to 2 or 3"; various colors and textures.

Collar Angle 66°
Survey 200' 68°

END OF HOLE