

GEOLOGIC LOG
CAPE ROSIER MINE
D. D. Hole 15

Collar: N 4960, E 4940
Elevation: 1

Course: N 54 W Mag.
Average Angle: 82
Depth: 328

<u>FROM</u>	<u>TO</u>	
0'-0"	12'-0"	Sheared agglomerate - gray, medium grain. Some fragments up to 1 cm; mostly 2 mm. Angle of core break 40° at 4 feet; 20° at 8 feet.
12	20	Silicified agglomerate? Light grey, fine grain, streaked (or flow-lines?); at 17 a 3° seam bearing pyrite.
20	64	Diorite - green-gray, with chill borders both ends; feldspar laths 3-4 mm long near center.
64	69	Silicified agglomerate (or contact-baked?) Brecciated, fine-grain; resembling bleached-brecciated rhyolite of earlier logs.
69	114	Sheared agglomerate 69-75. Gray and dark-green streaked, with fragments 2-10mm. Angle about 10°. 75-114 Massive sheared agglomerate. Some fragments up to 1 cm., but mostly 2 mm grain. Angles about 30°.
114	157	Sheared agglomerate, locally chlorite schist. 114-130 Light gray with dark streaks (chloritic); angle 35° with fragments 2 mm to 3 cm; and with few percent euhedral pyrite in crystals 2-10 mm. 130-131.3 More chloritic and talcy, with sphalerite, pyrite, chalcopyrite in streaks at 20°; few percent metal; some sphalerite with talc rims. 131.3-132.6 For 1.3 feet core consists of one hemi-cylinder of good ore fine grained, streaky chalcopyrite, sphalerite and minor galena; and one hemi-cylinder of chloritic and silicified, fine, grey agglomerate. Hole seems to have followed ore lens wall. SAMPLE 14: 131'-3" to 132'-7": 12.3% Zn 9.3% Cu 9.1% Pb Also Ag 8.3 oz/Ton.

Cape Rosier Mine, D. D. Hole 15 (Cont'd)

<u>From</u>	<u>To</u>	
	132.6-134.7	Chiefly light grey-green talc and creamy carbonate with minor sp.
	134.7-141	Green-black chlorite and creamy carbonate plus talc with disseminated talc-rimmed sphalerite and chalcopyrite. Not ore. Angles 20° and 40°.
	141-156	Grey-light green, silicified (hard to the knife), even-grained. Occasional green-black chlorite patches and streaks with 1-5mm spots of sphalerite; also some pyrite and minor chalcopyrite.
	156-157	Green-black chlorite with disseminated talc-rimmed sphalerite and chalcopyrite.
157	172	Silicified agglomerate; grey crypto crystalline, very siliceous with scattered pyrite, chalcopyrite and minor sphalerite.
172	198	Mineralized chlorite-talc and carbonate; probably low grade ore.
	172-178	Black chlorite-talc with abundant fine chalcopyrite and minor sphalerite, some pyrite. Angle schistosity 20° followed by the chalcopyrite.
	SAMPLE 26: 172-5 to 178:	0.0% Zn 0.5% Cu 0.0% Pb)
	178-183	Black chlorite-talc schist at 20°; much fine chalcopyrite and some fine sphalerite; also much fine crystal pyrite; all streaking with schistosity.
	SAMPLE 27: 178 to 183:	0.0%, Zn 0.5% Cu 0.0% Pb
	183-185	Same gangue; but considerable pyrite and coarser chalcopyrite in streaks 2-4 mm thick; both sphalerite spots and chalcopyrite are talc-rimmed; 35° angles.
	SAMPLE 28: 183 to 188:	0.0% Zn 2.9% Cu 0.0% Pb
	185-188	Same gangue but more 2-3mm sphalerite spots with talc rims; also very fine chalcopyrite and sphalerite.
	188-190'-2"	Same gangue; blebs of chalcopyrite 2-5 mm; fine chalcopyrite and sphalerite angles 30°; some carbonate; minor pyrite.
	SAMPLE 29: 188 to 190'-2";	0% Zn 1.1% Cu 0% Pb.
	190'-2"-191'-6"	Same gangue; barren except for few chalcopyrite blebs.
	191'-6"-193'-8"	Chiefly coarse crystalline carbonate plus chlorite; specks sphalerite.

Cape Rosier Mine, D. D. Hole 15 (Cont'd)

<u>From</u>	<u>To</u>	
		193'-8"-195'8" Black chlorite-talc and some carbonate, with sphalerite patches; one 6" length of about 20% Zn.
		SAMPLE 30: 193-8 to 195-8: 14.0% Zn 2.2% Cu 0.0% Pb.
		195'-8"-198 Some black chlorite plus carbonate; few sphalerite spots.
198	200-5	Chloritized and silicified agglomerate; some fragments 2-12 mm; not much evidence shearing here. 198-199 few sphalerite spots. 199-200.5 Patches sphalerite and chalcopyrite (Est; 4-1-0)
200-5	328	Agglomerate-mostly massive; fragments 3 mm-2 cm. 203-204 (Est. 2-3% Zn) 205-206 Fragments up to 4"; some down to 241; fragments of many varieties as to color and grain, occasional specks of chalcopyrite, pyrite and sphalerite; agglomerate is not sheared here; single lengths of core 1 to 10 feet. 241-255 Agglomerate gray-green, somewhat chloritic streaked at 60°. 277 & 290 Large (1ft.) light-colored fragments containing specks sphalerite. 288.5 White carbonate, and a 1 cm patch of sphalerite. 290-328 Coarse agglomerate 1"-3" fragments, many kinds. Some agglomerate gray-green with 2-5 mm fragments. At 321 some silicification and traces fine sphalerite, chalcopyrite and possibly pyrrhotite. Hole ends in massive agglomerate.
		Collar Angle 82°
		Survey 300' 82°