

GEOLOGIC LOG
CAPE ROSIER MINE
D. D. HOLE 1

Collar:	N 4930, E 4895	Course:	N 65° W Mag.
Elevation:	5'	Average Angle:	45°
		Depth:	400 Ft.

<u>From</u>	<u>To</u>	
0'-0"	30'-0"	Rhyolite agglomerate, fragments up to 1" or less, from 10' to 30' sheared.
30	71	Diorite, fine grained near 30', then coarser, then near 71' fine grained again.
71	81.4	Rhyolite agglomerate, sheared and schistose. Some streaked with dark gray-green fragmental appearing chloritic material.
81.4	92	As above, light gray talcose with many scattered small white feldspar crystals from 84 to the ore at 92.
92	95	Ore: Sphalerite reddish brown, chalcopryrite, galena, and pyrite, fine grained. Most of Zns irreg., but some seen following the well developed schistosity which has an angle 30° to 40° to axis of core. Ore in part hard and silicified. (Sample 1: Zn 7.5%, Cu 0.5%, Pb 0.91%)
95	98	Ore: (Sample 33: Zn 5.7%, Cu 0.5%, Pb 0.6%)
98	120	Talcose, well foliated, (like 84-92) with white feldspar crystals scattered through it. Light gray. Minor diss. pyrite to 120'.
120	131	Carbonates white, replacing chloritic sheared rhyolite agglomerate. (Sample 26: 128'-131' Zn 1.6%, Cu 0.1%, Pb 0.0%)
131	137	Ore: Sphalerite, chalcopryrite, and galena with some white carbonate, all fine grained. Minor pyrite. The ore minerals are in well schisted talcose material probably derived from rhy. Aggl. The angle of schistosity is about 40° to axis of core. (Sample 2: Zn 15.2%, Cu 1.6%, Pb 0.3%)

Cape Rosier Mine, D. D. Hole 1 (Cont'd)

<u>From</u>	<u>To</u>	
137'	140'	Dark green, chloritic, schistose rock with sphalerite stringers along the schistosity at 40° to 50° angle to axis of core.
140	188	Light green talcy mineral with carbonate and sphalerite as follows: white carbonate with generally minor sphalerite present at 140-155, but at places where the carbonate contains considerable dark green chlorite material, the sphalerite is much more abundant. (Sample 3: 154.5-158.5: Zn 4.8%, Cu 1.0%, Pb 0.1%) 158.5-164.8 Several % of sphalerite in dark green talcy schistose rock, with varying amount of white carbonate. 164.8-168.3 (Like just above) (Sample 17: Zn 9.3%, Cu 1.2%, Pb 0.6%) 168.3-171.8 (Like above) Sample 18: Zn 10.8%, Cu 0.9%, Pb 0.0%). 175 6" good ore. 183 4" good ore. 171.8-188 Rock like 158.5-164.8 172 -188 Rock is light green talc - white carbonate. In places one mineral predominates; elsewhere the other. The Zn is concentrated in the dark green chloritic material in 137-188. 81.4-188 Is regarded as sheared, schisted rhyolite agglomerate.
188	205	Gray green chlorite, carbonate veined rock. A sheared rhyolite aggl. at 205' angle of schistosity 60°.
205	216	Rhyolite agglomerate, sheared, schisted dark green chloritic, fragments 1/2" and less. 208' There is 6" ZnS several %. 211' There is 6" ZnS several %. The zinc sulphide at 211 is along the planes of schistosity, these make an angle of 65°-70° with axis of core.
216	338	Light gray green, schistose (angle 65° to axis core) with many residual fragments of rhyolite Agglomerate. Abundant lath shaped white feldspar xyls, developed as metacrysts. These are 1 mm in size. Fragments get coarser and crystals of feldspar less abundant near 240'. From 240' on coarse rhy. Agglomerate fragments 1" and over.

Cape Rosier Mine, D. D. Hole 1 (Cont'd)

<u>From</u>	<u>To</u>	
338	400	Rhyolite agglomerate, sheared to fragments 1/4" and less in size. Schistosity not pronounced. Angle of fracture about 70°-80°. This is parallel to the incipient schistosity.

Angle of Hole:
At 0': 45°