

GEOLOGIC LOG
CAPE ROSIER MINE
D. D. Hole No. 8

Collar: N 4571, E 4740
Elevation: 10'

Course: N 35 E Mag.
Average Angle: 75°
Depth: 521 Ft.

<u>From</u>	<u>To</u>	
0'-0"	14.8'-0"	Rhyolite agglomerate, 14.8 dark rhyolite fragments that contain white feldspar crystals. Fragments up to several inches.
14.8	80	14.8-53 Small fragments (no black rhyolite with feldspar crystals) up to 28', then coarser 1" fragments to 53. 53-59 Light grey - very dark gray banded with white feldspar metacrysts in the dark bands. 59-80 Light gray, fragments up to several inches probably bleached black rhyolite fragments. White feldspar crystals in many fragments.
80	92.5	Diorite, fine gr. at 80, then medium g., then fine gr. again at 92.5.
92.5	120	Rhyolite Agglomerate, fragments up to several inches. 92.5-107 Like 59-80 107-120 R. A. with no black rhyolite fragments
120	126	Diorite, fine gr. near 120, then coarser toward center, then finer gr. again near 126.
126	192	Rhyolite Agglomerate, 126-143 Light gray, contains fragments 1" and over inch size, many fragments may be bleached black rhyolite - not certain. 143-174 Sheared, faint minor wisps darker, residual fragments mm. size and some over. Schistosity angle 40°-55° to axis of core. Minor pyrite diss. near 169. 174-192 Like above but with some black streaks with white feldspar metacrysts.
192	195	Diorite, fine gr., massive, but core broken.

Cape Rosier Mine, D. D. Hole 8 (Cont'd)

<u>From</u>	<u>To</u>	
195	195.5	Rhyolite agglomerate.
195.5	200.5	Ore. Fine gr., sphalerite, chalcopryrite, pyrite, probably galena. This ore is in a schistose rock. Diorite 6" to 1'. Occurs near the center of the ore, shows sharp contact with ore, but no sphalerite (ore chalcopryrite) in the diorite. The diorite is fairly massive. SAMPLE 27: Zn 15.0%, Cu 1.7%, Pb 0.1%.
200.5	205.5	Diorite, fine gr. at contact with ore. Ore contact sharp.
205.5	218.6	Rhyolite agglomerate, sheared chloritic.
218.6	262	Diorite, somewhat fractured and healed near 218.6, also fine gr. here, then coarse toward center, then fine gr. near 262. Minor $\frac{1}{2}$ " pyrite crystals near 218.6.
262	269	Rhyolite agglomerate.
269	279.5	Diorite, veined by pyrite, pyrite crystals enhedral in part. A few dark inclusions, and fractures healed dark.
279.5	302	Very dark gray-green chlorite schist in part possibly massive serpentine or green talc with sphalerite. 279.5-280.5 Diss. sphalerite with talc rims. Several percent sphalerite. 280.5-282.7 Ore SAMPLE 39: Zn 6.1%, Cu 0.9%, Pb 3.5%. 282.7-288 Contains disseminated sphalerite with talc rims, at 284.5-286 contains several percent Zn. 288-292.4 Contains a thick white carbonate vein. SAMPLE 28: Zn 5.4%, Cu 0.7%, Pb 2.5%. 292.4-293.3 Dissem. sphalerite minor. 293.3-294.6 Est. 5% Zn. 294.6-297.5 Diss. sphalerite very minor. 297.5-298.8 Est. 8% Zn. 298.8-302 Diss. sphalerite very minor.
302	308	Rhyolite Agglomerate gray sheared, crushed silicified, fragments 1 mm. size. Contact with the dark green schist at 302 is very sharp and 90° to core axis.

Cape Rosier Mine, D. D. Hole 8 (Cont'd)

<u>From</u>	<u>To</u>	
308	315	Very dark gray-green chlorite schist (may be in part massive serpentine or talc) with dissem. sphalerite with talc rims. Zn several percent at 308.-308.6.
315	336	Rhyolite Agglomerate, sheared. 315-336 Dissem. pyrite (considerable)
336	344	Very dark grey-green chlorite schist. Diss. pyrite crystals, larger spots of pyrite rimmed by talc. A few spots of chalcopyrite. Schist angle 45°-55° to axis of core.
344	352.6	Rhyolite Agglomerate sheared, with wisps of dark gray in light gray background. Diss. pyrite.
352.6	355.6	Rock-like above. Pyrite diss. thickly, chalcopyrite heavy. Massive over one inch, and elsewhere smaller masses. SAMPLE 29: Zn 0.5%, Cu 1.8%, Pb 0.0%.
355.6	521	Rhyolite Agglomerate gray sheared crushed, mm. fragments at beginning and on to 392. This is the rhyolite agglomerate with various kinds of rhyolite fragments. 392-521 Residual fragments become larger, to $\frac{1}{4}$ " 392-415, then larger beyond at 435 to 465 to 521. Diss. pyrite 355.6 and decreasing near 385. 360.2-364.2 The sphalerite and chalcopyrite appear to be along irreg. fractures. SAMPLE 30: Zn 1.0%, Cu 0.7%, Pb 0.0%. 409-431 Very dark chlorite wisps. Numerous in gray matrix. 431-434.1 Diss. pyrite 434.1-465. SAMPLE 31: Zn 1.2%, Cu 0.1%, Pb 0.0%. 476 Galena-pyrite veinlet at 45° to axis of core. Several mm. thick pyrite-chalcopyrite veinlets bordered by talc are parallel to the galena vein.

Angle of Hole:
 At 0': 70°
 At 279': 77°
 At 521': 77°