

GEOLOGIC LOG
CAPE ROSIER MINE
B. D. Hole 11

Collar: N 4830, E 4910
Elevation: 1'

Course: S 75 W Mag.
Average Angle: 63°
Depth: 764 Ft.

<u>From</u>	<u>To</u>	
0'-0"	27'-0"	Rhyolite agglomerate, with black rhyolite fragments.
27	38	Diorite, fine grained near 27, then coarser, then near 38 finer grained again.
38	58	Rhyolite agglomerate, sheared some and fractured, silicified, mottled in light tones.
58	115	Diorite, fine grained near 58, coarser near center. Some veins of white carbonate.
115	135	Rhyolite, 115-118 Light gray (bleached very dark rhyolite) containing lath shaped white feldspar crystals probably altered. 118-119.6 Light and dark banded - may be flow banding. The chlorite rich bands are schistose however. Thickly scattered white feldspar crystals. 118-123 Like 115-118. 123-133 Very dark grey rhyolite with white feldspar crystals. (like on hills of no. 4 shaft). 133-135 Light gray silicified.
135	184	Rhyolite agglomerate, sheared, crushed to quarter inch and smaller fragments. The more finely crushed matrix contains metacrysts of white feldspar in a dark base. 154' Diorite 8". Massive. 175-177 Diorite. Massive. 177-184 Sheared and schistose, consists of light grey and very dark grey streaks with white (metacrysts) feldspar crystals in the dark streaks. Contains some scattered pyrrhotite. Sheared diorite or rhyolite agglomerate?
184	228.6	Rhyolite agglomerate, sheared, with residual fragments up to 1/4", dominantly gray with a few thin dark wisps or streaks. 222-223 Sphalerite fairly heavy disseminated along shear or schistosity planes. Sphalerite at contact of diorite and in cracks in diorite. NO shearing of the diorite.

Cape Rosier Mine, D. D. Hole 11 (Cont'd)

		223-225 Diorite fine grained.
		225-228 Rhyolite agglomerate sheared.
228.6	304	Diorite, fine grained near 228.6, then coarser near middle, then fine grained again near 304. Massive.
304	406.6	Rhyolite agglomerate. Checked on 368-390, (Sept. 26,) and it is rhyolite agglomerate with various kinds of rhyolite as fragments.
		304-307 Sheared and schistose lighter gray near 304, getting dark gray toward 307 and is more heavily mineralized. Sphalerite with talc rims.
		SAMPLE 40: Zn 1.4%, Cu 0.1%, Pb 0.0%.
		307-319.4 Sheared agglomerates, some chlorite, a few residual fragments.
		319.4-321.9 Like 304-307
		SAMPLE 41: Zn 4.1%, Cu 0.0%, Pb 0.0%.
		321.9-370 Agglomerate sheared and altered, fragments 1/4" - 1/2". Dark wisps of chlorite, in gray background.
		370-406.6 As above, less sheared than 321.9-370.
406.6	435	Diorite (unlike others lithologically). Chilled margin near 406.6, coarse grained near center and chilled again near 435 feet. Two fairly heavy quartz veins at 414 and 419.
435	764	Rhyolite agglomerate, fragments 1/2" and over. Some 2".
		505-525 Sheared some and with white feldspar metacrysts scattered through the rock.
		525-575 Rhyolite agglomerate. Some minor shearing but many large fragments; a normal rhyolite agglomerate. Chalcopyrite streaks at 538'.
		575-764 Rhyolite agglomerate. Darker than usual, a distinct gray-green general color. The change in color is due to the matrix of the fragments being more abundant and darker.
		515-764 The rhyolite agglomerate has various kinds of rhyolite as fragments (Sept. 26)

Angle of Hole:

At 0':	63°
At 345':	65°
At 764':	61°