

GEOLOGIC LOG
CAPE ROSIER MINE
D. D. Hole 13

Collar: N 4400, E 4718
Elevation: 5'

Course: N 56 W Mag.
Average Angle: 72°
Depth: 420 Ft.

<u>From</u>	<u>To</u>	
0'-0"	7'-0"	Evidently unconsolidated, no core.
7	48.6	Rhyolite Agglomerate, fragments inches in size; in this section there are a considerable number of very dark rhyolite (with white feldspar crystals) fragments. Some of these bleached in part.
48.6	71	Diorite, fine gr. border at 48.6, then coarser, then fine grained again at 71. Massive, unsheared.
71	76	Rhyolite aggl. sheared and crushed to very small fragments, somewhat schistose.
76	110	Rhyolite, brecciated and bleached, very dark gray with lath-like white feldspar crystals. It is bleached along the fractures. Siliceous.
110	137.5	Diorite, fine grained near 110, coarser toward center, fine gr. near 137. Massive unsheared.
137.5	139.5	Rhyolite, brecciated, bleached, silicified (was dark, with white feldspar crystals).
139.5	149	Diorite, fine grained near 139.5, then coarser toward center, then fine gr. near 149. Massive unsheared. Some carbonate seams.
149	212	Rhyolite, brecciated, bleached silicified, but with some residual black portions. (Black portions like rhyolite on hill S. of No. 4 shaft.) Contains white feldspar crystals. Possibly some rhyolite agglomerate.
212	244	Diorite, fine gr. at 212, then coarser toward center, remains coarse to 244 there brecciated and healed by white carbonate.

Cape Rosier Mine, D. D. Hole 13 (Cont'd)

<u>From</u>	<u>To</u>	
244	246	Gray sheared material may be either diorite or rhyolite agglomerate. Contains diss. sparse pyrrhotite.
246	247	Quartz.
247	392	Rhyolite Agglomerate sheared with fragments crushed to m. m. size. Schistosity 55°-60° to axis of core at 254.
	257-296	Fine grained, sparse, pyrite crystals dissem.
	285.6	Sphalerite, galena, pyrite along small fracture. Fragments increase to 1" - 2" across near 294' and continue to 392'.
	335-345	Sphalerite very minor scattered.
	338	The sphalerite and some chalcopyrite are along schisting at 40° angle to axis of core.
	340	Chlorite band schists at 50° to core axis. The shearing and schistosity in region of the ore is not very pronounced except in local bands.
392	420	Rhyolite Aggl. Sheares and schisted.
	400-420	Dark gray-green chlorite schist. Angle of schistosity is 45° to axis of core, in part. Part of this does not show good fissility.

Angle of Hole: 0
 At 0': 74
 At 420': 71°

END OF HOLE

Holes 1 to 13 inclusive logged by W. H. Newhouse, U.S.G.S., and W. Benedict Levin, U. S. B. M.