

GEOLOGIC LOG
CAPE ROSIER MINE
D. D. Hole 18

Collar: N 4709, E 4741
Elevation: 0

Course: N 55 W Mag.
Average Angle: 86
Depth: 333 Feet

<u>From</u>	<u>To</u>	
0'-0"	3'-0"	Tidal mud.
3	6-8	Dyers Point agglomerate. Fragments: 1-3 mm. white to colorless, aphanitic. Matrix grey-green; without lineation or foliation; fragments possess good flow structure.
6-8	13-6	Diorite; fine grained; with agglomerate inclusions.
13-6	34	Dyers Point agglomerate like 3 to 6-8, but with larger fragments (up to 6") which contain black, aphanitic, unbleached cores. In lower portion there are also grey fragments and darker green streaked fragments with small 1 mm feldspar crystals.
34	44-6	Agglomerate, sheared. Fragments several inches down to 1 mm; mostly colorless or white aphanitic. Matrix green-grey, well foliated at about 50° to core axis, and where very green containing numerous 1-2 mm white feldspar rectangles.
44-6	69-6	Diorite; green grey, with chilled borders. Note: the diorite contact (lower) is here definitely not accordant with the foliation of the sheared agglomerate; angle between them is about 90°.
69-6	73-6	Sheared agglomerate; strongly foliated at 50-60°, with abundant white 1x2 mm feldspar metacrysts in the dark green streaks or folia.
73-6	91	Agglomerate; evidence of shearing much localized; mostly "bleached" fragments several inches long.
91	101	Agglomerate; green-grey, somewhat sheared; fragments mostly grey, average 5 mm; few 3 mm double wedges of pyrrhotite (?).

Cape Rosier Mine, D. D. Hole 18 (Cont'd)

<u>From</u>	<u>To</u>	
101	105	Diorite; very fine grained, felsitic.
105	131-6	Agglomerate; grey-green mottled, somewhat sheared; fragments up to 1 cm; at 117 solution cavities and MnO coated seam at 10°; angles of shear irregular, around 45°; at 124 a MnO coated seam at 5°; at 131-6 a seam parallel to core axis; coated with MnO and limonite.
131-6	136	Diorite; fine grained.
136	149	Agglomerate like 105 to 131-6; some 40-50° angles.
149	153	Diorite, very fine grained, grey. Contact conformable at about 25°; suggestion of irregularity of contact and approximate parallelism of core and contact.
153	175	Agglomerate, sheared; dark green chloritic streaks in light grey ground; some residual fragments up to 1 cm; at 160' angles are 10-20°; at 172' angles are 70-80°.
175	206	Diorite; strikingly chilled borders, medium grain central zone; 185-187 and at 202 diorite-chlorite contact parallels the core, with some suggestion of slickensides; at 193 a 1" white calcite vein at 15°; lower chill phase contains small pyrite concentrations.
206	220	Agglomerate: light green-grey mottled, altered agglomerate. Few 3-6 mm talc-rimmed sphalerite spots. 213-219 silicified, grey, hard.
220	227	Chlorite schist (altered agglomerate). Dark green chlorite, not well schisted. No regular angles. 221-6 - 222-6 ore: chalcopryite, sphalerite, minor pyrite and galena in chlorite. (Estimate 22% Zn - 5% Cu - 1% Pb) At 220-6" clay gouge.

Cape Rosier Mine, D. D. Hole 18 (Cont'd)

<u>From</u>	<u>To</u>	
227'-0"	240'-0"	Agglomerate, somewhat altered; grey, hard, siliceous, aphanitic; occasional minor, local concentrations of pyrite with and without chalcopyrite patches.
240	251-3	Chlorite, poorly schisted, and chloritic agglomerate. Locally abundant $\frac{1}{2}$ mm pyrite crystals.
251-3	269	Agglomerate, silicified; grey, very hard (over 6); fragments not obvious.
269	271-6	Chlorite; black, not well schisted; considerable disseminated pyrite, and some chalcopyrite in 1 mm spots.
271-6	303	Agglomerate; light green-grey, very minor chlorite; fragments 2mm to 2 cm, chiefly very light gray to white, angular. Fairly normal, somewhat sheared agglomerate, of Goose Falls type. At 300 angles 40°. 296-297 black chlorite. 300-9- 301-6 black chlorite with much pyrite.
303	325	Agglomerate; grey, somewhat sheared at 70-80°; with fragments of several kinds 2 mm up to 7 cm. Several 3 mm sphalerite spots, patches, and streaks (at 306).
325	332-6	Coarse agglomerate; Goose Falls type with several colors and textures of fragments up to 3 or 4 inches long. Hole ends in coarse agglomerate. Surveys 200' 87° 300' 86°

END OF HOLE