

GEOLOGIC LOG  
CAPE ROSIER MINE  
D. D. Hole 12

Collar: N 5000, E 5000  
Elevation: 2'

Course: N 15W Mag.  
Average Angle: 60°  
Depth: 665

<u>FROM</u>	<u>TO</u>	
0'-0"	14'-0"	Sheared, schistose, gray, rhyolite agglomerate a few scattered several mm. residual fragments. Schisting angle is 15°-20° to axis of core. Angle of dark and light streaks in same direction but makes an angle of 30°-35° to axis of core. Two or three inches of quartz at diorite contact.
14	35	Diorite, fine gr. near 14, then coarser near middle, Quartz-white carbonate vein near 28.6 with associated dark grey-green chloritization. Fine grained near 35'.
35	77	Sheared, schistose gray, rhyolite agglomerate, Many mm. residual fragments. Silicified near 55', and near 70'. Schistosity angle 35°-40° to axis of hole near 58'. Straight Qtz-white carbonate veinlets (like an outcrops in this area.) These make an angle of 15°-20° to axis of core near 55'.
77	227	Like 35-77 but residual fragments become larger and more numerous, in region of 112'-227. Fragments very numerous, and 1/2" to 1" across. (112-227 is the aggl. with various kinds of rhyolite as fragments. Checked September 26th.)
227	231	Rhyolite, light gray, fractured and veined by quartz-white carbonate, the fractures form a sort of breccia.
231	234	Rhyolite agglomerate, sheared and schisted. Some residual small fragments.
234	236	Rhyolite, light gray, fractures, et. like footage 227-231.
236	237	Like 231-234
237	248	Rhyolite, light gray, fractured. Like footage 227-231, and 234-236.

Cape Rosier Mine, D. D. Hole 12 (Cont'd)

<u>From</u>	<u>To</u>	
248	272	Rhyolite, very dark gray, (like rhyolite on hill top south of No. 4 Shaft) with small scattered white lath like feldspar crystals. This is fractured to form a breccia and is veined by quartz-carbonate. The fractures look tensional. Many of them. This rhyolite shows no shearing of schistosity.
272	315	Rhyolite agglomerate, sheared and somewhat schistose near 272, schistose angle is $50^{\circ}$ to core axis. Fragments large to 292 then of mm. size (292-296 brecciated and healed by quartz-carbonate; Might be rhyolite rather than Rhyolite agglomerate.)
315	351.4	Rhyolite, gray to dark gray like rhyolite on hill south of No. 4 Shaft, with scattered white feldspar crystals. Very indistinct fracturing and healing of the sutured contacts no introduced material.
351.4	390	Rhyolite agglomerate, fragments in places up to 2".
390	667	Rhyolite, very dark gray (like rhyolite on hill south of No. 4 Shaft) with scattered small white feldspar crystals. Three feet (390-393) are bleached to light gray. Trace of sphalerite at 401'. Very weak fracturing and veining by the qtz-carbonate, very much less than in 248-272. Straight thin seams qtz-calcite at $30^{\circ}$ to core axis, another set at $30^{\circ}$ to core axis, forms inter-section with first set along a line normal to core axis (at 437 feet.). Less fracturing and qtz-white carbonate veinlets in region of 450-518 (practically none). 475-480 much broken ore. Also 498-500. This broken core has a screw or twisted fracture that suggests the drill was at fault rather than the rocks being broken before drilling. Near 575' to 580' the rhyolite breaks readily along fractures at $35^{\circ}$ to core axis. None of this very dark rhyolite in this hole shows shearing or schistosity. Hole ends in rhyolite. <u>Note:</u> Looked over 200-300 ft. very carefully for zinc traces, saw one trace.

Angle of Hole:

At 0':  $60^{\circ}$

At 300':  $62^{\circ}$

At 665':  $60^{\circ}$