

0019

6. MOUNT CHARTER

6.1 Introduction

Exploration at Mount Charter has been directed at both base metals (Hespe, 1984, Hespe, 1985) and more recently gold (McNeill, 1990) in sericite-pyrite alteration beneath a zone of massive and vein barite, replacing discontinuous volcanoclastic units, at the contact of hangingwall andesite and dacite. A re-interpretation of geochemical data from drilling in this area indicates that all previous holes were terminated in dacite and did not intersect the interpreted Que-Hellyer host horizon. Further drilling was therefore proposed to test the intersection of this alteration zone and the Que-Hellyer host horizon

6.2 Diamond Drilling

6.2.1 DDH MAC-26

Geology

DDH MAC-26 (see Plate MAC 161C for collar location) was designed to drill down the core of the interpreted steeply north plunging alteration system, to provide information on variation in style of alteration and grade of mineralisation with depth; to intersect the interpreted Que-Hellyer host horizon and continue to basement to provide information on the thickness of the QHV in this area.

A detailed log and petrographic descriptions are included as Appendix 15 while a section of the hole is included as Plate Mac 302 (see Plate MAC 115 for legend). A summary log is as follows:

0-167.8m	Strongly silica-pyrite altered dacite lava and volcanoclastic with strong barite and BMS veining. Includes 20.6m (29.7-49.3m) of massive barite with pyrite rich veins.
167.8-360m	Strongly to moderately sericite-silica-pyrite ± fuchsite altered dacite lava, lava breccia and polymict volcanoclastic. Includes intervals of up to 5m with >10% disseminated sphalerite + galena associated with barite veining.
360 -447.6m	Moderately fuchsite-sericite and weakly pyrite altered polymict volcanoclastic with minor dacite lava and lava breccia.
447.6-528.0m	Variably calcite-silica-pyrite, with minor fuchsite spotting, altered dacite lava and lava breccia.
528.0-539.7m	Vesicular basalt lava.
539.7-654.7m	Pyrite-chlorite-fuchsite altered dacitic lava with minor interbedded of vesicular basalt lava, to 601.7m, and polymict volcanoclastic.
654.7-661m	Chloritic andesitic lava breccia and volcanoclastic.
661 -681.7m	Siliceous dacitic lava.