

311152

Hole No: TCD5
 Prospect: Thomas Creek
 Section: 369800mE
 Co-ordinates: 369800 mE 5667 mN ~220 mRL
 Azimuth: 180 °G 167 °M Inclination -45°
 EOH 100.50m
 Logged by: Robert Reid
 Date commenced: 4/6/96 Date completed: 7/06/96

0.00-26.80m

orange (clay) weathered feldspar-augite porphyritic Diorite(phenocryst crowded). Very poor core recovery through ora weathered clay. Pinkish pseudobreccia texture is evident where less weathered (see below). BOCO at 26.8m.

Minor Intervals

19.75-22.20m patchy grey feldspar-augite porphyritic Diorite. Weak pervasive sil-ks(?), py(6-7%), mag(w). Displays a probable pseudobreccia texture with dark grey patches to 5 by 5cm, which frequently display cream feldspar and green, sometimes magnetite replaced, augite phenocrysts.

26.80-30.45m

cream and grey moderately to strongly feldspar-augite-porphyritic Andesite with a dark grey aphanitic groundmass, intermixed with minor feldspar-phyric Acid Andesite. py(< 1%).

30.45-50.52m

variably altered light green to mostly light pinkish green/grey feldspar-augite porphyritic Diorite(phenocryst crowded). Alteration varieties are ch(w) and sil-ks(w) to sil-ks(s). Silicification-ks alteration obliterates primary textures over much of this unit, but these features are evident within irregularly distributed "islands" of less altered rock. Breccia textures are evident intermittently throughout. Both the upper and lower portions of the interval are moderately magnetic and little sil-ks altered, whereas the majority of the interval is only weakly magnetic. Pyrite is variable from 1 to 6%, cpy(tr).

Minor Intervals(summary):

30.45-31.35m ser(w), ch(w), py(3-4%), mag(m)

31.35-34.75m sil(w/m), ks(w/m), py(2-4%)

34.75-37.50m patchy dark green and brick red, ks(s),sil(m) patches ch(m). Tour-sil-py +/- cpy veins occupy the central portion of the zone, but a quantity is hard to determine due to broken core. py(4-5%), cpy(<0.5%?).

37.50-47.70m similar to 31.35-34.75m, but ks(w)-sil(w) beyond 45m. py(3%)

47.70-50.52m ser(w), ch(w), py(4%), cpy(tr), mag(m), includes moderately sericitised zone of distinct apple/kaki green colour adjacent to monzonite(48.6-50.52m).

50.52-58.50m

pale reddish-brown feldspar-augite-(q?)-moderately porphyritic Monzonite intrusive. The phenocryst composition of this rock is feldspar(30%), quartz(< 1%) and augite(5%). The latter is commonly epidote replaced and feldspar varies in colour from pale pink to pale red, possibly dependant upon the degree of ks replacement? The groundmass of this distinctive rock is fg pink and aphanitic in patches and at margins. Unit margins are sharp. The upper margin is marked by 8cm of moderate foliation?/crystal alignment. Feldspar phenocrysts are clearly stretched parallel to the contact and foliation (~45° LCA). Small (2 by 1cm) apophyses occur in the host at the contact. These features suggest a late forceful intrusion or late deformation (?). py(tr-1% locally) This unit is similar to MDI seen elsewhere, but apparently lacks cpy. Lower contact at 45° LCA and marked by a tour-hm-py-cpy vein of 7mm width, which post dates the host(s). mag(m).

Minor Interval

54.00-54.15m sil-tour +/- ks-py-cpy zone/vein? (area of broken core). cpy comprises < 0.5%, reaching 6% in one 2 by 2 by 1cm fragment.

58.50-74.15m

pink/light green moderate/strongly feldspar-augite-phyric Andesite/Diorite. Breccia textures are evident intermittently throughout. ks(w), sil(w), py(3%), fracture filling veins py +/- tour (< 1%).

Minor Interval

58.50-64.0m mag(m/s).

71.0-74.15m ks(w/m), sil(w/m) py(2%), cpy(tr).

74.15-79.40m

brown/green feldspar-augite-phyric Micro-monzodiorite and minor feldspar-augite-phenocryst crowded Diorite. mag(m).

Minor Intervals

74.15-75.95m cpy?(0.5%)

75.95-76.50m feldspar-augite-phenocryst crowded Diorite. Similar to 71 to 71.40m, contains late greenish/yellow smectite veining, py(1-2%).

76.50-79.40m Micro-monzodiorite with cpy(tr) at margin within ch-ks(w/m) veins.

79.40-100.50m

dark grey and locally pinkish feldspar-augite porphyritic Diorite/Andesite. Breccia texture is well developed from 91 to 94m and intermittent elsewhere. Feldspar(30%, 1-1.5mm dia), Augite(30%, 3-5mm dia), ks(vw) and sil(vw) in patches.

Minor Intervals

82.80-88.80m ch(w), ks(w), py(2%)

88.80-91.20m ks(m/s), sil(w/m), mag(w), py(3-4%)

91.2-100.50m patchy dark grey as local matrix pervasive magnetite (or chilled MDI?), magnetite (m, locally s), py(2-3%), cpy (tr, 1 grain at 97m).

EOH @ 100.50m