311143

Hole No: TCD2
Prospect: Thomas Creek
Section: 369800mE
Co-ordinates: 369800 mE 5858 mN ~220 mRL
Azimuth: 180 °G 167 °M Inclination -45°
EOH: 127.80m
Logged by: Robert Reid
Date commenced: 26/05/96 Date completed: 30/05/96

**0.00-17.00m**
porphyritic Diorite. feldspar-augite-phenocryst crowded. Interval is strongly altered, containing irregular sil(s)-tour(w)-py veins/replacements throughout. py(2-5%) both in these veins and as disseminations, ep(w).
Minor Interval
0.00-4.30m Weathered feldspar-phenocryst crowded porphyritic Diorite? Very poor core recovery. Abundant py in drill fines(~4%).

**17.00-18.90m**
pinkish/pale brown Micro-monzodiorite. Exhibits a fine/medium grained equigranular texture composed of augite, feldspar and lesser magnetite(w) as primary? grains. cpy(0.5%, dss). ks(w), act?(w)

**18.90-30.90m**
porphyritic Diorite. augite-feldspar-phyric. Strongly altered with pervasive and veined grey/cream sil-py+/-tour. ep/ser(m). py(2-8%) disseminated and within irregular vein-like zones. Mineralisation weakens considerably after 30.5m. Similarly, breccia textures are locally evident up to 30.90m. Best examples are 24.3-24.6 and ~26.1m.
Minor intervals
20.30-20.60m py (15-20%)
27.10-28.10m green augite-feldspar- moderately porphyritic Andesite displaying a very fine grained light brown groundmass. Weak pervasive ks-sil alteration at the lower margin overprints breccia texture within the host porphyritic Diorite. ep(w), py(0.5%), mag(w), weakly mineralised.
32.1-33.6m augite-feldspar-phyric andesite (as above). py(tr), mag(w).

**30.90-40.80m**
medium/coarse grained feldspar-augite porphyritic Diorite. Weakly mineralised with < 1% ep-sil-py+/-tour+/-cpy veins. mag(w) and cpy(tr) overall.

**40.80-70.55m**
Variably coloured, green and pinkish cream feldspar-augite-porphyritic Diorite with fine grained groundmass. Breccia textures are common, with the matrix frequently infilled by later mineralisation. Highly but variably altered in three principal styles:- 1) pervasive and diffuse veined sil-py-tour, 2) disseminated and pervasive mag-py+/-cpy, and 3) green and brown veins of actinolite?(/ch)-ks+/-haematite +/-cpy constituting < 1% overall.

Minor Intervals
40.80-45.00m cream/pink variably altered feldspar-augite-porphyritic Diorite. pervasively altered by ks(m), sil(m/s), tour(w), ep(w), py(4%) as dss and minor diffuse veinlets containing cpy. overall cpy(tr-0.5%).
45.00-54.70m green Andesite/porphyritic Diorite with cpy(0.5%) and variable py (2-7%) overall.
54.70-57.40m Actinolite-ks-hm-cpy veined zone (20% vnd), includes late pale yellowish green siderite-smectite veins and @ 54.8m a 20cm act-hm(20%)-cpy(2%+) vein. Overall cpy(1%+).
57.40-70.55m as for 45.00 -54.70m
70.55-74.50m variable colour green/very light brown/grey highly altered feldspar-augite-porphyritic Diorite with minor feldspar-phyric Acid Andesite intrusives. Alteration includes matrix pervasive magnetite(w) associated? with disseminated py and cpy. Actinolite?-ch-py-cpy veins constitute 15%. Overall py (1-5%) and cpy (0.5%).

**74.50-85.60m**
pinkish grey variably altered feldspar-augite-porphyritic Diorite /brecciated diorite (similar to above). Breccia texture is abundant with (20%) pinkish k-felspar and silicified cpy bearing zones. Contains numerous (5-8%) late stage smectite veins, which both infill the matrix and crosscut "clasts". Overall py(1-3%), cpy(0.5%).

**Mixed Intrusive Zone**
85.60-87.00m
light green augite-phyric Andesite intrusive with a very fine grained/aphanitic groundmass. Cpy(0.5%, dss), mag(m)
87.00-89.05m
very light pink ks altered very fine grained Andesite/microdiorite? cpy(0.5%), ks(m), sil(m), ep(w), mag(m).
89.05-89.5m
dark grey feldspar-augite-moderately porphyritic Andesite. aphanitic groundmass, cpy(tr), mag(m/s).
89.50-91.70m
green fine grained augite-phyric Andesite. cpy(0.5-1.0%), py(1%), sulphides are dss and veined(< 1%), act/ch(m), ks(w).
**End mixed zone**

**91.70-94.45m**
pink/green feldspar-augite-porphyritic Diorite. ks(m), ch(m), py(1%), cpy(tr-0.5%), dss, ep(w) late, mag(m).

**94.45-96.00m**
light brown fine/medium grained moderately feldspar-augite-phyric Micro-monzodiorite. This unit is a coherent intrusive and features pink ks-altered feldspar phenocrysts. py(0.5%), cpy(tr), late ep(w,< 1%) veins.

**96.00-104.95m**
light green/pink feldspar-augite-porphyritic Diorite. Breccia textures are locally noted down to 98.00m. Silicification increases toward the lower intrusive contact, initially noted as pervasive proximal to fracture margins in the diorite (eg. 104.0m) and increasing to pervasive at base of interval.
Minor intervals
96.00-98.00m ks(m), ch(m), py(1%), cpy(tr-0.5%), dss, ep(w) late, mag(m/s).
98.00-99.50m strongly feldspar-phyric, py(0.5%), cpy(tr).
99.50-104.95m pink/light green. Exhibits pervasive silicification(m/s), with veined and dss sulphides. Overall py(0.5%), cpy(tr). Pyritic veinlets increase in intensity up to the basal MDI contact, reaching 10%.

**104.95-106.40m**
pink/light brown fg/mg feldspar-augite Micro-monzodiorite displays a chilled upper margin and disseminated sulphides. py(0.5%), cpy(0.5%).

**106.40-108.15m**
pink/green feldspar-augite-porphyritic Diorite. Py 2% in disseminated and vein/replacement form. Sil(s) pervasive, ks(w/m) and increasing in intensity to strong over the basal 10cm.

**108.15-108.80m**
light brown fg/mg moderately feldspar-augite-porphyritic Micro-monzodiorite intrusive. py(0.5%), cpy(<0.5%). Strong sil-ks alteration occurs in the host at MDI margins.

**108.80-127.80m**
Light green feldspar-augite-porphyritic Diorite. Locally moderately silicified. py(2%) as dss and veinlets(< 1%). cpy(tr). Ks(m)-sil(w) extends to 115m.

**EOH @ 127.80m**