

Tonalite (quartz diorite) - Gabbroic intrusive

Occur as small bodies in the western portion of the work area, straddling the E.L. boundary. Outcrop in the area is poor, the intrusives represented only by scattered blocks of fresh rock. Intrusives are confined to porphyries, none occurring in the clastics. Contact hornfelsing hasn't been recognized.

One thin section of these intrusives has been described by C.M.S.:

A6484 Tonalite "Quite possibly a hybrid rock composed of a coarse gabbroic assemblage and a late finer grained granitic assemblage."

Hand specimens A6144-45 from 2 km ESE of A6484 are of a more gabbroic differentiate, but similar texturally.

It is considered that the Beulah microgranite (Jennings 1979) 7 km to NW is related to these intrusives and is actually Cambrian not Devonian age. Evidence for age:

- a) textural similarities in hand specimen of tonalite and Beulah microgranite, the former is closely associated with Cambrian volcanics.
- b) Beulah microgranites intrusive contacts only with Cambrian units.

Photo 5 shows dome like Beulah intrusion.

Quartz feldspar hornblende porphyries

These porphyries form the greater part of this complex. Petrological