GEOLOGY OF THE KITTY POND AREA
BETTS COVE OPHIOLITE COMPLEX,
NEWFOUNDLAND

by Bruce Idleman.

Lithologies

BETTS COVE OPHIOLITE COMPLEX:

6  Sheeted diabase dikes (>95%)
5  Weakly layered to homogeneous gabbro (>1% diabase dikes)
4  Weakly layered to homogeneous gabbro (<1% diabase dikes)
3  Interlayered gabbroic and ultramafic rocks (>1% diabase dikes)
2  Interlayered gabbroic and ultramafic rocks (<1% diabase dikes)
1  Layered ultramafic rocks (<1% diabase dikes)
   Homogeneous ultramafic rocks (mostly harzburgite)
   Serpentinite
   Altered fault-related rocks (mica-derived)
   Altered fault-related rocks (ultramafic- and mafic-derived)

A  Quartz-feldspar porphyry

B  Mafic volcanic rocks, argillite, chert (probable Snooks Arm Group)

Symbols

Igneous layering; inclined, vertical

Foliation (oriented mineral grains); inclined, vertical, parallel to layering

Lineation (oriented mineral grains); horizontal, plunging, vertical

Diabase dike (early); inclined, vertical

Pyroxenite dike, inclined, vertical

Pegmatitic gabbro dike; inclined, vertical

Rodingite

Ultramafic pod in gabbro or pyroxenite

Ultramafic xenolith

Area containing abundant quartz-bearing rocks

Synclinal fold axis

Trace of synclinal fold axial surface

Lithologic contact

Fault

Localities referenced in text

This map was compiled from enlargements of aerial photographs
at an approximate scale of 1:4,000. The scale is somewhat variable
throughout the map area.

Geology is based on field work conducted during 1978 and 1979.

IDLEMAN (1981) PLATE 2