LITHOLOGY

Alteration, age relationships of alteration not known.

- **8** Intense alteration, original lithology not known.
  - Q Quartz veining or silicification.
  - S Sericitization
  - P Pyritization
  - I Intense development of above three alteration types.
- **7** Quartz veins, greater than 50% vein quartz, quartz veins undifferentiated.
- **6** Intense pervasive silicification of black quartz.

Dikes, age relationships of dikes not known.

- **5a** Equigranular hornblende syenite dike.
- **5b** Hornblende-feldspar porphyry dike.
- **5c** Dark green banded "andesite" dikes.
- **5d** Lamprophyre

Intrusive rocks, age relationship based on a cross cutting horneblende-porphyry syenite dike.

- **4** Hornblende-feldspar porphyry syenite, undifferentiated.
- **3** Alkali feldspar porphyry syenite.

Sediments and volcanic fragmental rocks.

- **2** Volcanic fragmental formation, undifferentiated due to cleavage and/or alteration.
- **2a** Low matrix, tuff-breccia to minor lappilli-tuff, monolithic.
- **2b** High matrix member, up to 10% chloritic lappilli and blocks, monolithic, probably an ash flow, marker horizon.
- **2c** Low matrix with interbedded heterolithic conglomerate sequences.
- **1** Sandstone formation; arkose, arkosic wacke, lithic arkose and wacke, shale, pebble conglomerate and arenite.
- **1a** Lithic arkose, shales, wackes and conglomerate.
- **1b** Arenite member, mainly quartz rich arkose, arenite conglomerate.
- **1c** Hornfels derived from sandstone formation.
- **1d** Slate

SYMBOLS

- Tops known, load structures, cross bedding.
- Cleavage, strike and dip.
- Bedding, strike and dip.
- Jointing, strike and dip.
- Hornblende or feldspar foliation, strike and dip.
- Lineation, cleavage bedding intersection, trend plunge.
- Dike, strike and dip.
- Quartz vein, strike and dip.
- Anticline, known, overturned, inferred direction of plunge.
- Syncline, known, inferred, direction of plunge.
- Fault, known strike and dip.
- Outcrop.
- Alteration contact, known, inferred.
- Geologic contact, known, inferred.

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SCALE 1:2000

METRES 50 0 50 100 150 200 250 METRES

CONTOUR INTERVAL 10 Metres
AUXILIARY CONTOUR INTERVAL 5 Metres

Note: Reconnaissance Map
Control derived from
1:50,000 N.T.S. Maps
104B/9 & 104B/8

SHEET INDEX
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2

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ESSO MINERALS CANADA

SULPHURETS PROJECT
NORTH & SOUTH BRUCEJACK AREA
GEOLOGY

Project No. 2153	Mining Division SKEENA
NTS 104 B/8	Drawn By: G.T.
Date: OCTOBER 1983	Map No. 2153-112 2153-111