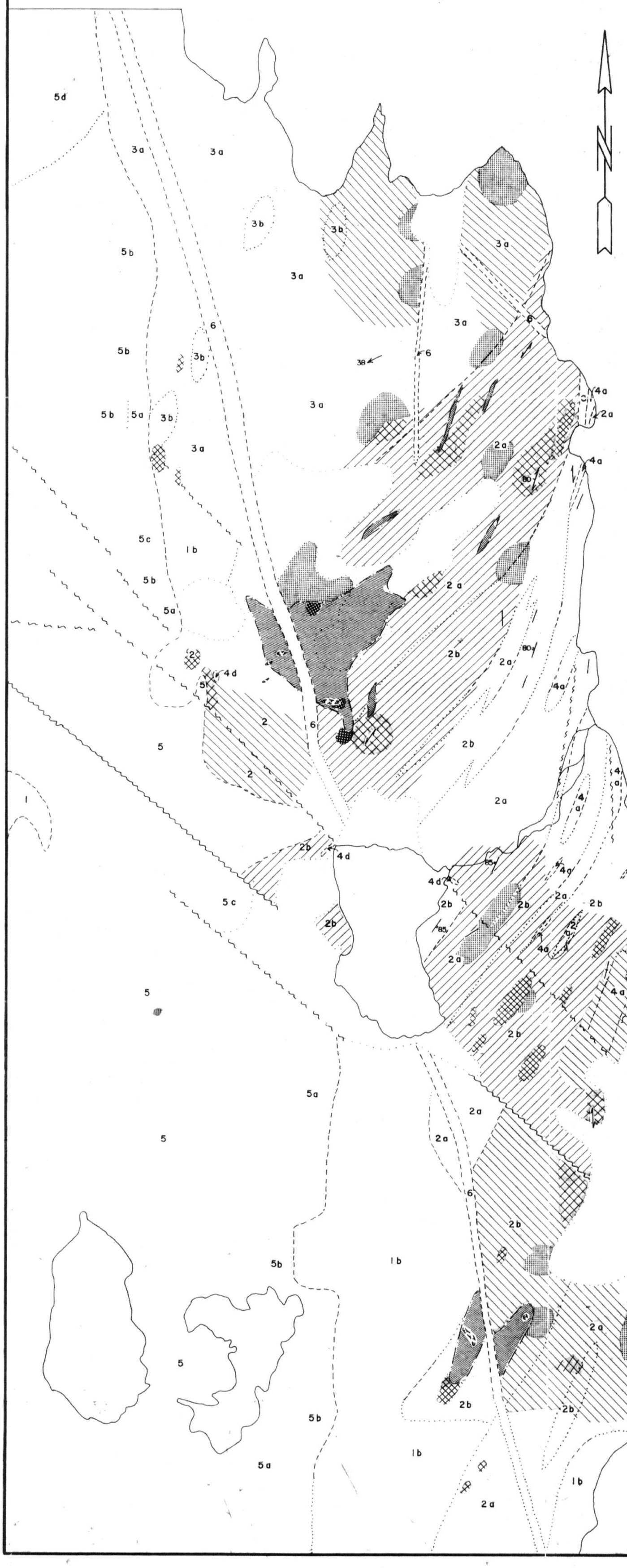
GEOLOGY

HIGH LAKE CU-ZN DEPOSIT

DISTRICT OF MACKENZIE, N.W.T.

Feet 200 0 200 400 600 Feet



LEGEND

PROTEROZOIC

6 Diabase

ARCHEAN

5 Intrusive rocks: 5a, granodiorite; 5b, diorite; 5c, quartz diorite; 5d, gabbro

Yellowknife Supergroup

4 Limestone and related rocks: 4a, calcite-cemented felsic or cherty breccia; 4b, calcareous intermediate tuff and lapilli-tuff; 4c, dolomite; 4d, siderite

3 Felsic volcanics (rhyolite, rhyodacite): 3a, white to grey, siliceous, fine-grained tuff(?); 3b, similar to 3a, pyritic

2 Felsic and intermediate volcanics: tuff, lapilli-tuff, tuff-breccia consisting of dacite to rhyolite fragments in andesite to dacite matrix: 2a, mostly felsic, includes minor cherty breccia; 2b, mostly intermediate; 2c, very coarse-grained breccia

1 Intermediate volcanics (dacite, andesite): 1a, tuff and lapilli-tuff; 1b, massive; 1c, stretched pillows

Alteration Assemblages

- Chlorite
- Chlorite, silicified
- Talc, chlorite, sulphides
- Quartz, pyrite, sericite, chlorite; siliceous rhyolite breccia with pyritic matrix
- Dalmatianite
- Magnetite, anthophyllite

Sulphide Zones

- AB zone: Cu>Zn
- D zone: Zn+Pb>Cu

SYMBOLS

- Geologic boundary (defined and approximate; assumed; inferred from drilling and mapping)
- Fault (approximate; assumed)
- Bedding, tops unknown (dip unknown; inclined; vertical)
- Schistosity, cleavage (dip unknown; inclined)
- Lineation (slickensides)
- Outcrop
- Trench

Approximate location 67° 23' N, 110° 51' 30" W

OPEN FILE
239_1
NOV 1974
GEOLOGICAL SURVEY
OTTAWA

This map has been reprinted from a scanned version of the original map
Reproduction par numérisation d'une carte sur papier