Adjoins Sheet 3

LEGEND

PRECAMBRIAN

- 29 Diabase dykes, generally quartz diabase, in places granophyric (in part older than Muskox Intrusion)

MUSKOX INTRUSION (11-28)

Silicic phases

- 28 Intrusive breccia
- 27 Granophyre
- 26 Mafic granophyre

Gabbroic phases

- 25 Granophyric gabbro
- 24 Granophyre-bearing gabbro
- 23 Anorthositic gabbro
- 22 Bronzite gabbro and norite
- 21 Gabbro
- 20 Olivine gabbro
- 19 Troctolite

Pyroxenites

- 18 Orthopyroxenite
- 17 Websterite
- 16 Clinopyroxenite
- 15 Olivine clinopyroxenite

Olivine-rich phases

- 14 Picrite
- 13 Feldspathic peridotite
- 12 Peridotite
- 11 Dunite

COPPERMINE RIVER SERIES

- 10 Basalt

HORNBY BAY GROUP (8-9)

- 9 Dolomite
- 8 Sandstone; minor conglomerate

BASEMENT COMPLEX (1-7)

Granitic rocks

- 7 Granite
- 6 Granodiorite
- 5 Quartz-biotite-plagioclase gneiss with paragneiss bands

Metavolcanic rocks

- 4 Silicic volcanic rocks
- 3 Greenschist, amphibolite

Metasedimentary rocks

- 2 Paragneiss with granitic bands
- 1 Quartz-mica schist, quartzite; minor graphitic slate

Heavy border on boxes indicates those formations which appear on this sheet

- Drift-covered area
- Geological boundary (defined, approximate, assumed)
- Geological boundary interpreted from aeromagnetic data
- Location of feeder
- Limit of geological mapping
- Bedding (dip known, top of bed unknown) inclined, vertical
- Schistosity (inclined, vertical, dip unknown)
- Gneissosity (inclined, vertical, dip unknown)
- Lineation (axis of minor folds)
- Primary layering in Muskox Intrusion (horizontal, inclined, vertical)
- Joint (inclined, vertical)
- Fault (defined, approximate, assumed)
- Syncline (defined)
- Mineralized horizon, (chromite with disseminated copper-nickel sulphides) defined, assumed
- Glacial striae (direction of ice-movement known, unknown)
- Mineral occurrence (copper, Cu; nickel, Ni; lead, Pb) ×Cu
- Diamond drill-hole (vertical, inclined)
- Potassium-Argon age determination in millions of years ×K/Ar=1765 m.y.

Geology by C. H. Smith, 1959, 1960

Cartography by the Geological Survey of Canada, 1962

Base-map prepared by the Surveys and Mapping Branch, 1961

Aeromagnetic flight elevation 500 feet above ground level

To accompany Paper 61-25

Geographical names subject to revision

INDEX MAP

Scale: One Inch to 40 Miles

AEROMAGNETIC PROFILE

AEROMAGNETIC PROFILE

AEROMAGNETIC PROFILE

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS

MAP 36-1961
SHEET 4
GEOLOGY

MUSKOX INTRUSION
COPPERMINE RIVER AREA
DISTRICT OF MACKENZIE

Scale: One Inch to ½ Mile = $\frac{1}{31,680}$

Miles ½ 0 1

MANUSCRIPTS
APR 2 1962
C.G.S.

Adjoins Sheet 5

PUBLISHED, 1962
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