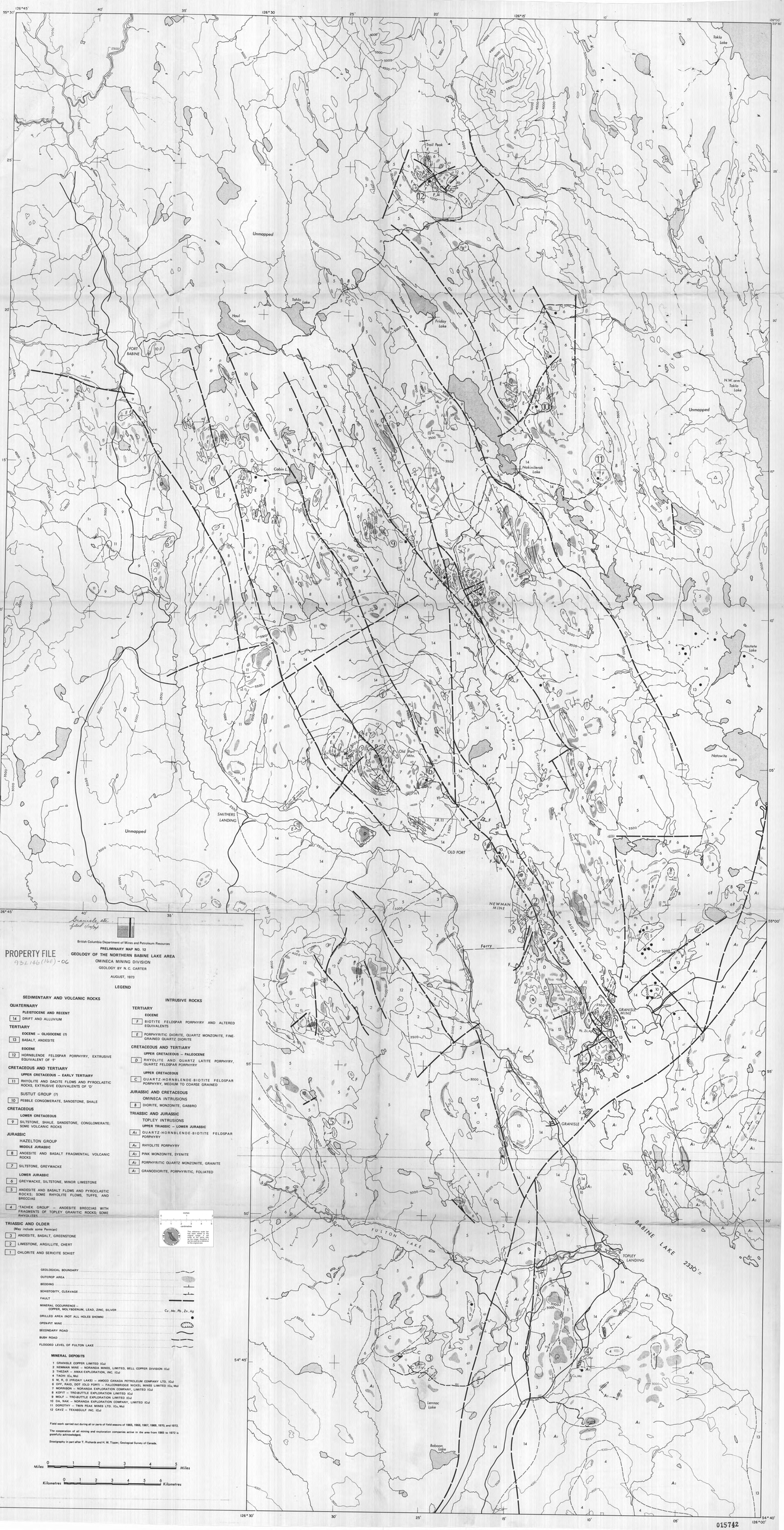

British Columbia Department of Mines and Petroleum Resources

PRELIMINARY MAP NO. 12

GEOLOGY OF THE NORTHERN BABINE LAKE AREA

OMINECA MINING DIVISION

GEOLOGY BY N. C. CARTER

AUGUST, 1973

PROPERTY FILE 93L 146(166)-06

LEGEND

SEDIMENTARY AND VOLCANIC ROCKS

QUATERNARY

PLEISTOCENE AND RECENT

14 DRIFT AND ALLUVIUM

TERTIARY

EOCENE – OLIGOCENE (?)

13 BASALT, ANDESITE

EOCENE

12 HORNBLENDE FELDSPAR PORPHYRY, EXTRUSIVE EQUIVALENT OF 'F'

CRETACEOUS AND TERTIARY

UPPER CRETACEOUS – EARLY TERTIARY

11 RHYOLITE AND DACITE FLOWS AND PYROCLASTIC ROCKS, EXTRUSIVE EQUIVALENTS OF 'D'

SUSTUT GROUP (?)

10 PEBBLE CONGOMERATE, SANDSTONE, SHALE

CRETACEOUS

LOWER CRETACEOUS

9 SILTSTONE, SHALE, SANDSTONE, CONGLOMERATE; SOME VOLCANIC ROCKS

JURASSIC

HAZELTON GROUP

MIDDLE JURASSIC

8 ANDESITE AND BASALT FRAGMENTAL VOLCANIC ROCKS

7 SILTSTONE, GREYWACKE

LOWER JURASSIC

6 GREYWACKE, SILTSTONE, MINOR LIMESTONE

5 ANDESITE AND BASALT FLOWS AND PYROCLASTIC ROCKS; SOME RHYOLITE FLOWS, TUFFS, AND BRECCIAS

4 "TACHEK GROUP" – ANDESITE BRECCIAS WITH FRAGMENTS OF TOPLEY GRANITIC ROCKS; SOME RHYOLITES

TRIASSIC AND OLDER

(May include some Permian)

3 ANDESITE, BASALT, GREENSTONE

2 LIMESTONE, ARGILLITE, CHERT

1 CHLORITE AND SERICITE SCHIST

INTRUSIVE ROCKS

TERTIARY

EOCENE

F BIOTITE FELDSPAR PORPHYRY AND ALTERED EQUIVALENTS

E PORPHYRITIC DIORITE, QUARTZ MONZONITE, FINE-GRAINED QUARTZ DIORITE

CRETACEOUS AND TERTIARY

UPPER CRETACEOUS – PALEOCENE

D RHYOLITE AND QUARTZ LATITE PORPHYRY, QUARTZ FELDSPAR PORPHYRY

UPPER CRETACEOUS

C QUARTZ-HORNBLENDE-BIOTITE FELDSPAR PORPHYRY, MEDIUM TO COARSE GRAINED

JURASSIC AND CRETACEOUS

OMINECA INTRUSIONS

B DIORITE, MONZONITE, GABBRO

TRIASSIC AND JURASSIC

TOPLEY INTRUSIONS

UPPER TRIASSIC – LOWER JURASSIC

A_3 QUARTZ-HORNBLENDE-BIOTITE FELDSPAR PORPHYRY

A_2 RHYOLITE PORPHYRY

A_2 PINK MONZONITE, SYENITE

A_2 PORPHYRITIC QUARTZ MONZONITE, GRANITE

A_1 GRANODIORITE, PORPHYRITIC, FOLIATED

GEOLOGICAL BOUNDARY

OUTCROP AREA

BEDDING

SCHISTOSITY, CLEAVAGE

FAULT

MINERAL OCCURRENCE – COPPER, MOLYBDENUM, LEAD, ZINC, SILVER — Cu, Mo, Pb, Zn, Ag

DRILLED AREA (NOT ALL HOLES SHOWN)

OPEN-PIT MINE

SECONDARY ROAD

BUSH ROAD

FLOODED LEVEL OF FULTON LAKE

MINERAL DEPOSITS

1 GRANISLE COPPER LIMITED (Cu)
2 NEWMAN MINE – NORANDA MINES, LIMITED, BELL COPPER DIVISION (Cu)
3 THEZAR – AMAX EXPLORATION, INC. (Cu)
4 TACH (Cu, Mo)
5 M, R, D (FRIDAY LAKE) – AMOCO CANADA PETROLEUM COMPANY LTD. (Cu)
6 OFF, RAID, GOT (OLD FORT) – FALCONBRIDGE NICKEL MINES LIMITED (Cu, Mo)
7 MORRISON – NORANDA EXPLORATION COMPANY, LIMITED (Cu)
8 KOFIT – TNO-BUTTLE EXPLORATION LIMITED (Cu)
9 ROLF – TNO-BUTTLE EXPLORATION LIMITED (Cu)
10 DA, RAK – NORANDA EXPLORATION COMPANY, LIMITED (Cu)
11 DOROTHY – TWIN PEAK MINES LTD. (Cu, Mo)
12 CAVE – TEXASGULF INC. (Cu)

Field work carried out during all or parts of field seasons of 1965, 1966, 1967, 1969, 1970, and 1972.

The cooperation of all mining and exploration companies active in the area from 1965 to 1972 is gratefully acknowledged.

Stratigraphy in part after T. Richards and H. W. Tipper, Geological Survey of Canada.

Miles 0 1 2 3 4 5 Miles

Kilometres 0 1 2 3 4 5 6 Kilometres

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