



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

- LEGEND**
- |  |  |
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| <b>SEDIMENTARY AND VOLCANIC ROCKS</b>  | <b>INTRUSIVE ROCKS</b>   |
| <b>QUATERNARY</b>  | <b>EOCENE</b>  |
| 14 DRIFT AND ALLUVIUM  | F BIOTITE FELDSPAR PORPHYRY AND ALTERED EQUIVALENTS                      |
| <b>TERTIARY</b>  | E PORPHYRITIC DIORITE, QUARTZ MONZONITE, FINE-GRAINED QUARTZ DIORITE     |
| 13 EOCENE - OLIгоценE (?)  | <b>CRETACEOUS AND TERTIARY</b>   |
| 12 BASALT, ANDESITE  | D UPPER CRETACEOUS - PALEOEOCENE   |
| <b>EOCENE</b>  | D QUARTZ, HORNBLENDE-BIOTITE FELDSPAR PORPHYRY, MEDIUM TO COARSE GRAINED |
| 12 HORNBLENDE FELDSPAR PORPHYRY, EXTRUSIVE EQUIVALENT OF F                                   | <b>JURASSIC AND CRETACEOUS</b>   |
| <b>CRETACEOUS AND TERTIARY</b>   | C QUARTZ-HORNBLENDE-BIOTITE FELDSPAR PORPHYRY                            |
| 11 UPPER CRETACEOUS - EARLY TERTIARY   | B DIORITE, MONZONITE, GABBRO   |
| 11 RHYOLITE AND QUARTZ LATTICE PORPHYRY, EXTRUSIVE EQUIVALENTS OF C                          | <b>TRIASSIC AND JURASSIC</b>   |
| 10 SUSTUT GROUP (?)  | TOPLEY INTRUSIONS  |
| 10 PEBBLE CONGLOMERATE, SANDSTONE, SHALE   | A1 RHYOLITE AND QUARTZ LATTICE PORPHYRY                                  |
| <b>CRETACEOUS</b>  | A1 PINK MONZONITE, SYENITE   |
| 9 LOWER CRETACEOUS   | A1 PORPHYRITIC QUARTZ MONZONITE, GRANITE                                 |
| 9 SILTSTONE, SHALE, SANDSTONE, CONGLOMERATE, SOME VOLCANIC ROCKS                             | A1 GRANDIORTITE, PORPHYRITIC, FOLIATED                                   |
| <b>JURASSIC</b>  |  |
| 8 HAZELTON GROUP   |  |
| 8 ANDESITE AND BASALT FRAGMENTAL VOLCANIC ROCKS  |  |
| 7 SILTSTONE, GREYWACKE   |  |
| <b>LOWER JURASSIC</b>  |  |
| 6 GREYWACKE, SILTSTONE, MINOR LIMESTONE  |  |
| 5 ANDESITE AND BASALT FLOWS AND PYROCLASTIC ROCKS; SOME RHYOLITE FLOWS, TUFFS, AND BRECCIAS  |  |
| 4 "TACHIC" GROUP - ANDESITE BRECCIAS WITH FRAGMENTS OF TOPLEY GRANITIC ROCKS, SOME RHYOLITES |  |
| <b>TRIASSIC AND OLDER</b>  |  |
| (May include some Permian)   |  |
| 3 ANDESITE, BASALT, GREENSTONE   |  |
| 2 LIMESTONE, ARGILLITE, CHERT  |  |
| 1 CHLORITE AND SERICITE SCHIST   |  |

- MINERAL OCCURRENCE**  
 COPPER, MOLYBDENUM, LEAD, ZINC, SILVER  
 Cu, Mo, Pb, Zn, Ag
- MINERAL DEPOSITS**
- GRANISE COPPER LIMITED (CU)
  - NEWMAN MINE - NORANDA MINES LIMITED, BELL COPPER DIVISION (CU)
  - THEZAR - AMAX EXPLORATION, INC. (CU)
  - TACHIC (CU, MO)
  - M. R. D. (FRIDAY LAKE) - AMOCO CANADA PETROLEUM COMPANY LTD. (CU)
  - OPF, HAD, DDT (OLD FORT) - PALCONBRIDGE NICKEL MINES LIMITED (CU, NI)
  - MORRISON - NORANDA EXPLORATION COMPANY, LIMITED (CU)
  - KOFIT - TROBILITE EXPLORATION LIMITED (CU)
  - WOLF - TROBILITE EXPLORATION LIMITED (CU)
  - DA, NAK - NORANDA EXPLORATION COMPANY, LIMITED (CU)
  - DOROTIV - TWIN PEAK MINES LTD. (CU, MO)
  - CAVZ - TEXASGULF INC. (CU)

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 Base maps by H. W. Turner and H. W. Turner, Geological Survey of Canada.

