

BRITISH COLUMBIA
DEPARTMENT OF MINES AND PETROLEUM RESOURCES
PRELIMINARY MAP NO. 18
MAY, 1975

**GEOLOGY OF
CENTRAL PART OF THE NICOLA GROUP
BRITISH COLUMBIA**
(A COMPILATION OF INFORMATION PUBLISHED IN
PRELIMINARY MAPS NOS. 10, 15, AND 17)

LEGEND

PLEISTOCENE AND RECENT

14 VALLEY BASALT

POST LOWER CRETACEOUS TO EARLY TERTIARY

13 COLDWATER BEDS: CONGLOMERATE, GRIT, SANDSTONE, SHALE, AND COAL-BEARING BEDS

12 REDDISH BOULDER CONGLOMERATE PRIMARILY DERIVED FROM UNIT 10

11 BOULDER CONGLOMERATE WITH ABUNDANT GRANITIC CLASTS

LOWER CRETACEOUS

10 KINGSVALE GROUP

10a - ANDESITIC TO BASALTIC FLOWS AND BRECCIA

10b - ANDESITE TO BASALT PORPHYRY SILLS

10c - VOLCANIC CONGLOMERATE, SANDSTONE, AND SHALE

UPPER JURASSIC TO LOWER CRETACEOUS

9 CHERT PEBBLE AND COBBLE CONGLOMERATE; MINOR GRIT AND SANDSTONE

LOWER JURASSIC OR LATER

8 ALLISON LAKE PLUTON

8a - REDDISH BIOTITE - HORNBLende GRANITE AND QUARTZ MONZONITE

8b - GREY HORNBLende GRANODIORITE

8c - GREY TO DARK GREY HORNBLende DIORITE AND QUARTZ DIORITE

8d - HORNFELSE AND MIGMATIZED VOLCANIC ROCKS

7 PENNASK BATHOLITH: BIOTITE - HORNBLende GRANODIORITE AND QUARTZ MONZONITE

UPPER TRIASSIC TO LOWER JURASSIC

6 MONZONITE AND SYENITE, MEDIUM-GRAINED AND GENERALLY PORPHYRITIC

5 DIORITE, QUARTZ DIORITE, AND GABBRO

4 LEUCOCRATIC, PYRITIC QUARTZ PORPHYRY, LOCALLY HIGHLY SHEARED

**UPPER TRIASSIC TO LOWER JURASSIC
NICOLA GROUP**

3 WESTERN BELT

3a - PLAGIOCLASE ANDESITE TO DACITE FLOWS, MINOR BRECCIA

3b - ANDESITIC TO DACITIC BRECCIA AND TUFF

3c - GREY, MASSIVE TO CHERTY LIMESTONE, COMMONLY FOSSILIFEROUS

3d - CALCAREOUS VOLCANIC CONGLOMERATE, SANDSTONE, AND SILTSTONE; MINOR TUFF AND BRECCIA

2 EASTERN BELT

2a - MASSIVE TO CRUDELY LAYERED LAHAR DEPOSITS; MINOR CONGLOMERATE

2b - VOLCANIC SANDSTONE AND SILTSTONE; CRYSTAL, LITHIC, AND LAPILLI TUFF

2c - GREEN PYROXENE ANDESITE AND PURPLE TO GREY ANALCITE-BEARING TRACHYANDESITE AND TRACHYBASALT FLOWS

1 CENTRAL BELT

1a - REDDISH TO GREEN PYROXENE AND/OR PLAGIOCLASE, ANDESITE, AND BASALT FLOWS AND BRECCiated EQUIVALENTS; OCCASIONAL ANALCITE-BEARING TRACHYBASALT

1b - CRYSTAL AND LITHIC TUFF, GENERALLY WELL BEDDED

1c - GREEN AND RED VOLCANIC BRECCIA AND LAHAR DEPOSITS

1d - REEFOLD LIMESTONE AND RELATED CALCAREOUS SEDIMENTARY ROCKS

1e - SILTSTONE, SANDSTONE, AND ARGILLITE

SYMBOLS

- AREA OF PREDOMINANT OUTCROP
- FAULT
- PREVALENT BEDDING ATTITUDE
- GEOLOGICAL CONTACT
- REVERSE FAULT
- MINERALIZED OCCURRENCE
- FOSSIL LOCALITY

