

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)
by V. Preto

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

