

Figure 1 GEOLOGY OF THE NICOLA GROUP BETWEEN MERRITT AND PRINCETON

V. A. PRETO 1972 - 1975

LEGEND

PLEISTOCENE AND RECENT

18 VALLEY BASALT

18a RED AND GREY, VESICULAR OLIVINE BASALT

18b MEDIUM-GRAINED GABBRO AND BASALT

MIDDLE EOCENE

17 PRINCETON GROUP

17a BOULDER CONGLOMERATE, GRIT, SANDSTONE, AND SILTSTONE

17b REDDISH BASALTIC AND/OR ANDESITIC FLOWS AND FLOW BRECCIA; LAHARIC BRECCIA

PALEOCENE

16 COLDWATER BEDS

16a POORLY CONSOLIDATED BOULDER CONGLOMERATE AND GRIT WITH PLANT REMAINS

16b SANDSTONE, SHALE, AND COAL-BEARING BEDS

POST LOWER CRETACEOUS

15 BOULDER CONGLOMERATE WITH REDDISH HEMATITIC MATRIX AND CLASTS PREDOMINANTLY DERIVED FROM UNIT 11

14 BOULDER CONGLOMERATE WITH ABUNDANT GRANITIC CLASTS

UPPER CRETACEOUS (CENOMANIAN)

13 SUMMERS CREEK STOCKS

13a GREY BIOTITE-HORNBLENDE GRANODIORITE, PINKISH GREY BIOTITE QUARTZ MONZONITE, AND MINOR PINK GRANITE

13b HORNBLENDE DIORITE, QUARTZ DIORITE, AND GRANODIORITE

POST LOWER CRETACEOUS

12 ALLISON CREEK STOCKS: MOSTLY PINK TO GREY LEUCOGRANITE, SYENODIORITE, MONZONITE, GRANODIORITE, AND QUARTZ DIORITE; MINOR MAFIC MICRODIORITE; INCLUDES INTENSELY SILICIFIED AND ALTERED VOLCANIC ROCKS

LOWER CRETACEOUS

10, 11 KINGSDALE GROUP

11a PLAGIOCLASE-RICH, REDDISH BROWN AND MAROON FLOWS (11af), TUFFS AND BRECCIAS (11abx) OF ANDESITIC TO BASALTIC COMPOSITION

11b PLAGIOCLASE AND AUGITE-PLAGIOCLASE ANDESITE AND BASALT PORPHYRY SILLS AND/OR FLOWS

11c REDDISH VOLCANIC CONGLOMERATE, GRIT, SANDSTONE, AND SHALE

11d GREY, LOCALLY BEDDED, IMPURE LIMESTONE AND CALCAREOUS GRIT

10a BASAL BOULDER CONGLOMERATE-RICH INCLASTS OF UNITS 1 AND 7

10b GREY TO MAROON, FLOW-BANDED DACITIC AND RHYOLITIC SUBAERIAL FLOWS AND ASH FLOWS

10c GREY TO MAROON, PLAGIOCLASE-RICH ANDESITIC TO DACITIC FLOWS AND FLOW BRECCIA; MINOR LITHIC AND/OR CRYSTAL TUFF

10d GREY TO REDDISH GREY AND BROWN LAHARIC DEPOSITS, TUFF, AND TUFF BRECCIA ENTIRELY OR LARGELY COMPOSED OF CLASTS OF UNITS 10b, 10c, AND 7

UPPER JURASSIC TO LOWER CRETACEOUS

9 CHERT PEBBLE AND COBBLE CONGLOMERATE; MINOR INTERBEDDED GRIT AND SANDSTONE

LOWER JURASSIC OR LATER

8 PENNASK BATHOLITH: BIOTITE-HORNBLENDE GRANODIORITE AND QUARTZ MONZONITE

UPPER TRIASSIC TO LOWER JURASSIC

7 ALLISON LAKE PLUTON

7a REDDISH TO REDDISH GREY BIOTITE-HORNBLENDE GRANITE AND QUARTZ MONZONITE

7b GREY HORNBLENDE GRANODIORITE

7c GREY TO DARK GREY HORNBLENDE DIORITE, GABBRO, AND QUARTZ DIORITE

7d METAVOLCANIC ROCKS WITHIN OR NEAR THE PLUTON

6 PINK AND GREY MONZONITE AND SYENITE, MEDIUM-GRAINED AND GENERALLY PORPHYRITIC; FINE-GRAINED GREY DACITE

6a MONZONITE AND SYENITE BRECCIA

5 DIORITE, QUARTZ DIORITE, MONZONITE, AND DIORITE BRECCIA; MINOR FINE-GRAINED HORNBLENDE PORPHYRY

4 LEUCOCRATIC, PYRITIC QUARTZ PORPHYRY, LOCALLY HIGHLY SHEARED AND MYLONITIZED

LOWER TO MIDDLE JURASSIC

CORRELATION UNCERTAIN

A BUFF-WEATHERING GREY, CALCAREOUS SILTSTONE, SANDSTONE, AND GRIT, WITH INTERLAYERED BUFF-WEATHERING SILTY LIMESTONE

UPPER TRIASSIC

1, 2, 3 NICOLA GROUP

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

EASTERN BELT

2a PURPLE AND GREY, LOCALLY ANALCITE-BEARING, AUGITE PLAGIOCLASE TRACHYANDESITE AND TRACHY-BASALT PORPHYRY FLOWS AND MINOR FLOW BRECCIA

2b REDDISH TO GREENISH GREY CRYSTAL, LITHIC, AND LAPILLI TUFF

2c VOLCANIC SANDSTONE AND SILTSTONE, MINOR TUFF

2d MASSIVE TO CRUDELY LAYERED LAHAR DEPOSITS, MINOR CONGLOMERATE

CENTRAL BELT

1a REDDISH TO GREEN AUGITE-PLAGIOCLASE ANDESITE AND BASALT FLOWS; OCCASIONAL ANALCITE-BEARING TRACHYBASALT

1b AUTOBRECCIATED EQUIVALENTS OF 1a

1c RED VOLCANIC BRECCIA AND LAHAR DEPOSITS, MOSTLY MASSIVE

1d GREEN VOLCANIC BRECCIA AND LAHAR DEPOSITS, MOSTLY MASSIVE

1e CRYSTAL AND LITHIC TUFF, GENERALLY WELL BEDDED

1f BEDDED TO MASSIVE, GREY, FOSSILIFEROUS REEFOLD LIMESTONE AND RELATED CALCAREOUS SEDIMENTARY ROCKS

1g WELL-BEDDED SILTSTONE, SANDSTONE, AND ARGILLITE; MINOR GRITSTONE AND PEBBLE CONGLOMERATE

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