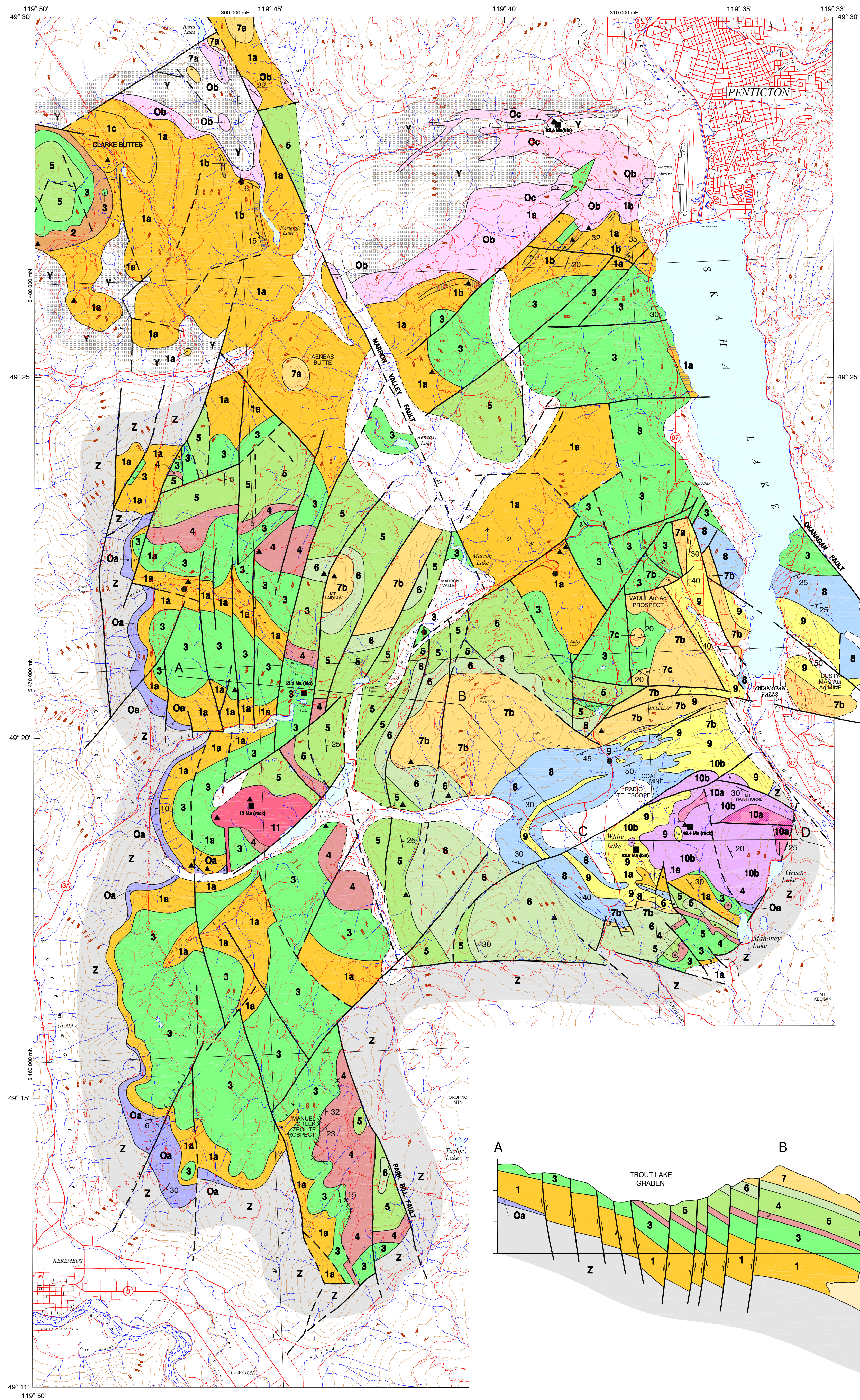




GEOSCIENCE MAP 2002-5
Geology of the Pentiction Tertiary Outlier

By B. N. Church
NTS 82E5

SCALE 1:50 000
0 1 2 3 4 5
kilometres

LEGEND

MIOCENE

OLALLA RHYOLITE
11 MOSTLY RHYOLITE BRECCIA, SOME MASSIVE OBSIDIAN, AND ASSOCIATED DYKES

EOCENE

PENTICTON GROUP

SKAHA FORMATION
10a CHANNEL DEPOSIT OF GRANITE BOULDER CONGLOMERATE AND BRECCIA AND ARKOSIC SANDSTONES
10b MOSTLY CHERT AND GREENSTONE SLIDE BRECCIA AND SOME TEPHRITE LAVA OVERLAIN BY POLYMICCTIC FANGLOMERATE

WHITE LAKE FORMATION
9 MOSTLY VOLCANIC BRECCIAS INCLUDING PYROCLASTIC ROCKS AND LAHARS, MINOR TRACHYTIC AND ANDESITIC LAVAS
8 VOLCANIC CONGLOMERATE, SANDSTONES, AND SHALES

MARAMA FORMATION
7a AENEAS BUTTE FELDSPATHIC DACITE
7b MASSIVE APHANTIC DACITE LAVA AND SOME BRECCIA FORMING MOSTLY REMNANTS OF VOLCANIC DOMES
7c VOLCANIC CONGLOMERATE WITH CLASTS FROM THE MARRON FORMATION

MARRON FORMATION (UNDIVIDED)
6 PARK RILL MEMBER: MERCOCRYSTALLINE ANDESITE LAVA AND MINOR BRECCIA
5 NIMPIT LAKE MEMBER: TAN TRACHYTE AND TRACHYANDESITE LAVA AND MINOR BRECCIA
4 KEARNS CREEK MEMBER: VESICULAR PYROXENE-RICH BASALTIC ANDESITE LAVA
XXX MANUEL CREEK DACITIC TUFF (WITH LOCAL ZEOLITIZATION)
3 KITLEY LAKE MEMBER: TRACHYANDESITE LAVA WITH CONSPICUOUS GLOMEROPHOCRYSTIC CLOTS OF FELDSPAR
2 SHATFORD CREEK MEMBER: LOCAL DEPOSIT OF BROWN ANDESITE LAVA AND BRECCIA WITH SOME QUARTZ-FILLED AMYGDALES

YELLOW LAKE MEMBER:
1a MOSTLY PYROXENE-RICH MAFIC PHONOLITE LAVA WITH LOCAL WELL-DEVELOPED PHENOCRYSTS OF RHOMB-ANORTHOCLEASE AND SOME PRIMARY ANALCITE, ABUNDANT ZEOLITE FILLINGS IN CRACKS AND AMYGDALES
1b PURPLE AND GREY VOLCANIC WACKE FROM EROSION OF 1a AND PINK RADIOACTIVE FELDSPATHIC TRACHYTIC ASH FLOW, SANDSTONE, AND CONGLOMERATE
1c CLARK CREEK PORPHYRY: A SILL-LIKE BODY RELATED TO 1a WITH LARGE FELDSPAR PHENOCRYSTS

SPRINGBROOK FORMATION
Oa POLYMICCTIC CONGLOMERATE AND BRECCIA WITH CLASTS DERIVED MAINLY FROM PRE-TERTIARY BEDDED ROCKS

KETTLE RIVER FORMATION
Ob MAINLY GRANITE BOULDER CONGLOMERATES, ARKOSE, VOLCANIC WACKE, AND RHYOLITE BRECCIA
Oc SHINGLE CREEK PORPHYRY: A COARSE SANIDINE QUARTZ PORPHYRY INTRUSION FEEDER TO THE RHYOLITE VOLCANIC ROCKS OF Ob

PRE-TERTIARY ROCKS
Y MAINLY GRANITIC INTRUSIONS
Z MAINLY CHERTS, GREENSTONES, SCHISTOSE ROCKS, AND MINOR INTRUSIONS

SYMBOLS
DRIFT COVERED AREA
GEOLOGICAL BOUNDARY APPROXIMATE
BEDDING: HORIZONTAL, INCLINED
FAULT: APPROXIMATE, ASSUMED
TOPOGRAPHICAL CONTOUR (INTERVAL, 100 METRES)
STRUCTURE SECTION
CHEMICAL ANALYSIS STATION
KIAI SPECIMEN LOCALITY
POWER LINE
ROAD, HIGHWAY
DIAMOND DRILL HOLE

