

119°30' 25' 20' 119°15' 50°00'

JUNE 1981
PRELIMINARY MAP 45
**GEOLOGY OF THE KELOWNA
TERTIARY OUTLIER
(EAST HALF)**

BY B. N. CHURCH

LEGEND

CENOZOIC

- PLATEAU BASALT
- 7 DAVES CREEK BASALT* (14.9 Ma), LAVA AND DYKES
- WHITE LAKE FORMATION (OR EQUIVALENT EOCENE BEDS)
- 6 BROWN SANDSTONE AND SILTSTONE WITH SOME CARBONACEOUS SEAMS
- MARRON FORMATION
- 5 NIMPIT LAKE MEMBER WELL EXPOSED ON MOUNT KNOX CONSISTING MOSTLY OF TAN TRACHYTE AND TRACHY-ANDESITE LAVA
 - 4 KITLEY LAKE MEMBER COMPRISING NUMEROUS TRACHYTE AND TRACHYANDESITE LAVA FLOWS COMMONLY WITH CONSPICUOUS GLOMEROPHENCRYSTS OF PLAGIOCLASE AND SANIDINE
 - 3 ANDESITE OF UNCERTAIN CORRELATION CONSISTING OF BROWN BRECCIAS AND LAVA FLOWS POSSIBLY COGENETIC WITH THE ATTENBOROUGH CREEK ANDESITE IN THE TERRACE MOUNTAIN AREA
- KETTLE RIVER FORMATION (INCLUDING ASSOCIATED FELSIC VOLCANIC ROCKS)
- 2 BLACK KNIGHT DACITE*: FELDSPATHIC LAVA, BRECCIA, AND SOME OBSIDIAN; LOCALLY ALTERED AND CUT BY QUARTZ VEINS (Q)
 - 1 RHYOLITE BRECCIA AND FLOW-BANDED LAVA
 - 0 SILTSTONE AND SANDSTONE WITH SOME CARBONACEOUS SEAMS
- PRE-CENOZOIC BASEMENT ROCKS
- Y MAINLY GRANITIC INTRUSIONS OF THE OKANAGAN BATHOLITH (LOWER CRETACEOUS/UPPER JURASSIC)
 - Z AN ASSORTMENT OF ARGILLACEOUS ROCKS (S), LIMESTONE (Ls), METAVOLCANIC ROCKS (Gv), SCHISTOSE AND GNEISS UNITS (Gn)

*FORMAL NAMES AFTER GEOGRAPHIC LOCALITIES, UNITS NOT FULLY DEFINED

SYMBOLS

- BEDDING
- FORMATIONAL BOUNDARY
- FAULT
- GLACIAL STRIAE
- BOUNDARY OF GLACIAL DRIFT
- STRUCTURAL CROSS-SECTION
- TOPOGRAPHICAL CONTOUR (INTERVAL, 500 FEET)
- CHEMICAL ANALYSIS STATION
- K/Ar SPECIMEN LOCALITY
- ROAD
- STREAM
- LAKE



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

KILOMETRES 0 1 2 3 KILOMETRES
SCALE 1:50000

