

PRE. MAP # 39

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PRELIMINARY MAP 39
**GEOLOGY OF THE KELOWNA
TERTIARY OUTLIER
(WEST HALF)**
BY B. N. CHURCH

- LEGEND**
- CENOZOIC**
- VALLEY BASALT (0.762 Ma)**
 - 8** LAMBLY CREEK BASALT* LAVA AND BRECCIA
 - PLATEAU BASALT (11.8 Ma)**
 - 7** CARROT MOUNTAIN ALKALI BASALT* LAVA AND DYKES
 - WHITE LAKE FORMATION (OR EQUIVALENT EOCENE BEDS)**
 - 6** CONGLOMERATE, SANDSTONE, AND MINOR SHALE; CLASTS OF UNDERLYING VOLCANIC ROCKS AND PRE-TERTIARY UNITS INCLUDING GRANITE; FEW CARBONACEOUS SEAMS
 - MARAMA FORMATION**
 - 5** MOUNT BOUCHERIE DACITE DOME,* SIMILAR LAVA AND BRECCIA ON MOUNT LAW
 - MARRON FORMATION**
 - 4** NIMPT LAKE MEMBER CONSISTING MOSTLY OF TRACHY-ANDESITE LAVA ACCOMPANIED BY MINOR ASH FLOW DEPOSITS ON MOUNT DROUGHT AND MOUNT LAW
 - 3** KITLEY LAKE MEMBER (52.9 Ma) COMPRISING NUMEROUS TRACHYTE AND TRACHYANDESITE LAVA FLOWS COMMONLY WITH CONSPICUOUS GLOMEROPHENOCRYSTS OF PLAGIOCLASE AND SANDINE
 - 2** CORYELL INTRUSION: GRANITE TO SYENITE COMPOSITION FEEDER TO KITLEY LAKE FLOWS
 - 1** ANDESITE OF UNCERTAIN CORRELATION WELL EXPOSED ON MOUNT SWITE, CONSISTING OF BROWN BRECCIAS AND LAVA FLOWS WITH QUARTZ-FILLED AMYGDALAE; POSSIBLY COGENIC WITH THE SHATFORD CREEK ANDESITE* NEAR PENTICTON OR POSSIBLY THE 'ATTENBOROUGH CREEK ANDESITE*' IN THE TERRACE MOUNTAIN AREA
 - KETTLE RIVER FORMATION (INCLUDING ASSOCIATED RHYOLITE)**
 - Oa** TREPANIER RHYOLITE LAVA AND BRECCIAS WITH MINOR ARKOSIC SEDIMENTARY UNITS
 - SPRINGBROOK FORMATION**
 - Ob** CONGLOMERATE CHANNEL DEPOSITS COMMONLY WITH MANY PRE-TERTIARY CHERT AND GREENSTONE CLASTS
- PRE-CENOZOIC BASEMENT ROCKS**
- Y** MAINLY GRANITIC INTRUSIONS OF THE OKANAGAN BATHOLITH (LOWER CRETACEOUS-UPPER JURASSIC)
 - Z** AN ASSORTMENT OF CHERTS, ARGILLACEOUS ROCKS, METAVOLCANIC AND SCHISTOSE UNITS
- * INFORMAL 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/A: SPECIMEN LOCALITY
 - ROAD
 - STREAM
 - LAKE

