

## MT. SWITE AGATE. (~~SEE MAP 063~~)

LOCATION REPORTED TO CONTAIN BLUE AGATES UP TO SOFT BALL SIZED. SOME ARE OPEN AND LINED WITH QUARTZ CRYSTALS. MOST ARE FILLED AND DISPLAY EITHER CONCENTRIC OR HORIZONTAL BANDING. THEY ARE QUITE COMMON IN ANDESITE HORIZON JUST NORTH-WEST OF WESTBANK. BEST LOCATION SITUATED ON SOUTH FLANK OF MT. SWITE (SEE MAP 39)

### REFERENCE:

NEILL CHURCH (PERS. COMM.)

# GEOLOGY OF THE KELOWNA TERTIARY OUTLIER (WEST HALF)

BY B.N. CHURCH

- (X) THUNDER EGG LOCATIONS (P. HORA)
- (//) OUTCROP OF BLUE AGATES (N. CHURCH)

### LEGEND

SCALE: 1:50,000

#### 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 NIMPIT 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 SANIDINE

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 AMYGDALES; 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)

