

British Columbia Department of Mines and Petroleum Resources
PRELIMINARY MAP NO. 11
GEOLOGY OF THE BUCK CREEK AREA
 OMECECA MINING DIVISION
 GEOLOGY BY B. N. CHURCH
 MAY, 1973



- BEDDED ROCKS**
- MIOCENE**
- POPLAR BUTTES VOLCANIC ROCKS, COLUMNAR OLIVINE BASALT (21.0±1.1 m.y.)
- EOCENE**
- BUCK CREEK VOLCANIC ROCKS**
- PARROTT MOUNTAIN PHASE, MAINLY ANDESITE BRECCIA
 - SWANS LAKE PHASE, MAINLY BASALTIC LAVA
 - HOUSTON PHASE, APHANITIC ANDESITE AND DACITE LAVAS AND VOLCANIC BRECCIA, MINOR BASALT (47.3±1.6 m.y.)
- IGNEOUS INTRUSIONS**
- SYENOMONZONITE ALKALIC GABBRO STOCKS: PARROTT LAKE INTRUSION (49.4±1.5 m.y.); GOOSLY LAKE INTRUSION (48.3±0.0 m.y.)
 - BIOTITE GRANITIC STOCK, GOOSLY AREA (56.2±3.0 m.y.) AND QUARTZ FELDSPAR PORPHYRY AT DUNGATE CREEK
 - MINE HILL MICRODIORITE SILLS AND DYKES (74.0±1.0 m.y.)
 - BIOTITE - PLAGIOCLASE PORPHYRY STOCK AT DUCK LAKE AND RELATED QUARTZ FELDSPAR PORPHYRY INTRUSIONS (76.0±2.0 m.y.)
 - BASIC AND INTERMEDIATE STOCKS AT BOB CREEK AND TSICHGASS LAKE
 - TOPLEY INTRUSIONS AND GRANITE NEAR BURNS LAKE
- UPPER CRETACEOUS**
- TIP TOP HILL VOLCANIC ROCKS, MAINLY BIOTITE - HORNBLENDE ANDESITE AND ANDESITIC DACITE LAVAS AND PYROCLASTIC ROCKS (75.8±2.7 m.y.)
 - ACID VOLCANIC ROCKS, MAINLY RHYOLITE LAVA IN THE TCHESINKUT LAKE AND BULKLEY LAKE AREAS AND RELATED QUARTZ PORPHYRY INTRUSIONS ON OKUSYELDA HILL (76.5±3.0 m.y.)
- EARLY AND MIDDLE MESOZOIC**
- ACID AND INTERMEDIATE LAVAS AND PYROCLASTIC ROCKS, SOME ARGILLITE, SANDSTONE, AND CONGLOMERATE

- MINERAL PROPERTIES**
- A SILVER QUEEN - BRADINA JOINT VENTURE
 - B DIAMOND BELLE - FRONTIER EXPLORATION LIMITED
 - C WINN - MAHARAJA MINERALS, LIMITED
 - D SPOOK - LOBELL MINES LIMITED
 - E PAR - CANADIAN SUPERIOR EXPLORATION LIMITED
 - F ROD, DOT - E. KOBLANSKI
 - H HOT - CHINOOK RESOURCES LTD.
 - I DEER - RIO TINTO CANADIAN EXPLORATION LIMITED
 - J BORNITE - E. G. STRIMOLD
 - K GRE, DE, MO - DECKER LAKE MINES LIMITED
 - L SAM GOOSLY - KENNCO EXPLORATIONS, (WESTERN) LIMITED
 - M GAUL - MAVERICK MOUNTAIN RESOURCES LIMITED
 - N WIL - LEWIS RIVER MINES LTD.
 - O SEAN - KENNCO EXPLORATIONS, (WESTERN) LIMITED

- MINERAL SHOWINGS**
- WRINCH VEIN SYSTEM (Au, Ag, Cu, Pb, Zn)
 - COLE VEIN SYSTEM (Au, Ag, Cu, Pb, Zn)
 - CHISHOLM VEIN SYSTEM (Ag, Pb, Zn)
 - WINNINIK HILL VEINS (Pb, Zn)
 - NEW DISCOVERY VEINLETS (Zn)
 - BOB CREEK DISSEMINATIONS (Au)
 - DUNGATE CREEK DISSEMINATIONS (Cu)
 - MUD LAKE DISSEMINATIONS IN SHEARS (Cu)
 - GILMORE LAKE MINERALIZED SHEARS (Cu)
 - BOO MOUNTAIN VEIN (Cu)
 - GEROW CREEK DISSEMINATIONS (Cu)
 - BALD HILL QUARTZ VEINS (Au)
 - MONA VEINS (Ag, Cu, Pb, Zn)
 - OAKLA VEINLETS (Au)
 - FRANCOIS LAKE VEINLETS (Aragonite, Phosphate)
 - GOOSLY REPLACEMENTS (Ag, Cu)

- SYMBOLS**
- Hogas
 - Bedding Attitude - Horizontal, Inclined
 - Topographic Lineament
 - Topographic Contour (250 feet)
 - Property Boundary
 - Mineral Showing
 - Road
 - Railway
 - Outcrop Boundary
 - Lake
 - Stream
 - Swamp
 - Shale, Sandstone
 - Volcanic Rocks
 - Conglomerate
 - Feldspathic Buck Creek Volcanic Rocks
 - Rhyolite

