



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

OPEN FILE MAP NO. 1987-8  
**GEOLOGY OF SKOOKUMCHUCK MAP AREA (W<sup>1</sup>/<sub>2</sub>),  
SOUTHEASTERN BRITISH COLUMBIA  
(NTS 82G/13W)**

BY GINETTE CARTER AND TRYGVE HØY  
(SEE BELOW FOR ADDITIONAL SOURCES OF DATA)

SCALE 1:50 000



LEGEND — PURCELL MOUNTAINS

- QUATERNARY**  
FLEISTOCENE AND RECENT: Till gravel, sand and alluvial deposits
- CRETACEOUS WHITE CREEK BATHOLITH**  
Kwc Quartz monzonite, granodiorite
- HADRYMAN**  
PCt TROY FORMATION: Conglomerate, shale
- HELIKIAN — PURCELL SUPERGROUP**  
PCs SIL: Gabbro or diorite  
PCmn MOUNT NELSON FORMATION: Quartzite, dolomite, siltstone  
PCdc DUTCH CREEK FORMATION: Green siltstone, argillite, stromatolitic dolomite, quartz wacke
- EASTERN FACIES OF UPPER PURCELL SUPERGROUP**  
PCr ROOSEVILLE FORMATION: Green siltstone and argillite, black argillite, stromatolitic dolomite and dark brown oolitic dolomite; quartz arenite toward the top
- PROTERODIC**  
PCdc2 UPPER DUTCH CREEK: Green siltstone, argillite, oolitic dolomite, crystalline dolomite, dolomitic siltstone  
PCdc1 LOWER DUTCH CREEK: Coarse quartz wacke; stromatolitic dolomite; green siltstone-argillite couplets  
PCnc NICOL CREEK FORMATION: Interbedded siltstone argillite and basaltic andesitic lava, tuff  
PCnc1 Volcaniclastic siltstone, fine quartz wacke  
PCvc VAN CREEK FORMATION: Green and mauve siltstone, argillite, silty quartz arenite  
PCk2 UPPER KITCHENER: Grey-black dolomite, limestone, molar tooth structures; siltstone, green quartz arenite  
PCk1 LOWER KITCHENER: Green beige siltstone, argillite, dolomitic siltstone  
PCc CRESTON FORMATION: Green, grey, mauve siltstone, argillite, white, green quartz arenite  
PCc3 UPPER CRESTON: Quartz siltstone, quartz arenite siltstone, argillite  
PCc2 MIDDLE CRESTON: White and green quartz arenite mauve and green quartz arenite and siltstone  
PCc1 LOWER CRESTON: Grey-black argillite, siltstone and siliceous argillite; green siltstone  
PCa ALDRIDGE FORMATION: Quartzite, quartz wacke, siltstone, argillite  
PCa3 UPPER ALDRIDGE: Rusty weathering argillite and siltstone  
PCa2 MIDDLE ALDRIDGE: Grey quartzite, quartz wacke, siltstone and rusty weathering dolomite near top

- SYMBOLS**
- LIMIT OF MAPPING OR EXPOSURE ..... CLEAVAGE, FOLIATION .....  
ROCK OUTCROP ..... JOINTING .....  
GEOLOGICAL CONTACT:  
DEFINED, APPROXIMATE, ASSUMED ..... LINATION .....  
FAULT:  
DEFINED, APPROXIMATE, ASSUMED ..... CROSS-SECTION, BEDDING ATTITUDE .....  
THRUST OR REVERSE FAULT ..... CROSS-SECTION, CLEAVAGE ATTITUDE .....  
NORMAL FAULT ..... CROSS-SECTION, VEIN ATTITUDE .....  
MINOR, PROSPECT OR OCCURRENCE ..... X  
FOLD AXIAL TRACE:  
ANTICLINE, OVERTURNED ..... TOPOGRAPHIC CONTOUR (500-FOOT INTERNAL) .....  
SYNCLINE, OVERTURNED ..... ROAD: HARD SURFACE .....  
BEDDING:  
INCLINED, OVERTURNED, VERTICAL, TOP UNKNOWN ..... LAKE .....

**ADDITIONAL DATA**

Dickow, L. (1963) — Unpublished data.  
Leach, G.B. (1962) Geology, Fernie (West Hill) Kootenay District, British Columbia, Geological Survey of Canada, Map 11-1962.  
Area west of 116° 00' geology modified after:  
Reesor, J.E. (1956) Dower Creek Map: Area with Special Emphasis on the White Creek Batholith, British Columbia, Geological Survey of Canada, Memoir 292, 19 pages.  
Area north of 50° 00' geology modified after:  
Froo, W. (1979) Evolution of Transverse Structures Linking the Purcell Anticline to the western Rocky Mountains near Canal Falls, British Columbia, unpublished M.Sc. Thesis, Queen's University, Kingston, Ontario.  
Leach, G.B. (1968) Canal Falls, Kootenay District, British Columbia, Geological Survey of Canada, Map 24-1968.  
Area in southeast corner of map area, SW and NE of Moxey Creek modified after:  
Ransom, Paul (1986) Personal Communication.

**MINERAL OCCURRENCES IN THE SKOOKUMCHUCK WEST-HALF MAP-AREA**

No.	Name	Commodities	Gangue	Type	Host
52	BBX	Au, Ag, Cu, Ba	Barite, quartz, siderite	Vein, shear	upper Dutch Creek Formation
64	Federal	Talrose material, ironstone, pyrrhotite	Secondary enrichment	shear zone	lower Roosevelt Formation
65	Michelson (Bendish)	Ag, Au, Cu, Ba, Ni, Cu	Barite, quartz, siderite	Vein, shear	upper Dutch Creek Formation
76	Wau Eagle	Ag, Pb, Zn, Au	—	—	Kitchener Formation
77	Lead (location uncertain)	Ag, Pb, Zn, Au	—	Vein fractures	upper Roosevelt or lower Mount Nelson Formation

Based on British Columbia Ministry of Energy, Mines and Petroleum Resources MINF.E. data bank and field visits.

# VERTICAL CROSS-SECTIONS SKOOKUMCHUCK MAP AREA

SCALE 1:50 000

