

Province of British Columbia  
 Ministry of Energy, Mines and Petroleum Resources  
**MINFILE MAP 092C**  
**CAPE FLATTERY**  
 MINERAL OCCURRENCE MAP  
 Scale 1:250 000

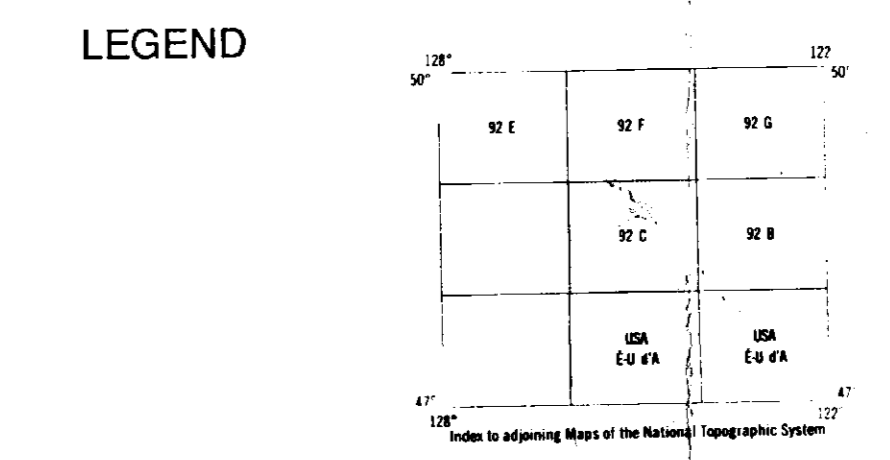
Kilometres 0 5 10 15 20 25 30 Kilometres

This project is a contribution to the Canada/British Columbia Mineral Development Agreement 1985-1990.

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources  
 Energy, Mines and Resources Canada  
 Énergie, Mines et Ressources Canada

DATE REVISED: January 1991 TOTAL NUMBER OF OCCURRENCES: 149

STATUS  
 \* Producer  
 \* Fast Producer  
 \* Developed Prospect  
 \* Prospect  
 \* Showing



**GEOLOGICAL LEGEND**

- STRATIFIED ROCKS**
- CENOZOIC**
- QUATERNARY**
- PLEISTOCENE AND RECENT**
- Gs Unconsolidated sediments
- TERTIARY**
- Eocene and Oligocene**
- EOC CARMANAH GROUP: Sandstone, shale, conglomerate
- Eocene**
- EM METCHOSIN VOLCANICS: Pillow basalt
- MESOZOIC**
- UPPER CRETACEOUS**
- uKN NANAIMO GROUP: Sandstone, shale, conglomerate
- LOWER JURASSIC**
- LIB BONANZA GROUP: Andesite, dacite, rhyolite
- TRIASSIC**
- UPPER TRIASSIC**
- VANCOUVER GROUP**
- uTq QUATSINO AND PARSON BAY FORMATIONS: Limestone, argillite
- uTk KARMUTSEN FORMATION: Basalt, pillow lava
- PALEOZOIC**
- PENNSYLVANIAN TO PERMIAN(?)**
- PBL BUTTLE LAKE GROUP: Limestone
- DEVONIAN TO PENNSYLVANIAN**
- CS SICKER GROUP: Meta-andesite, dacite
- COWICHAN UPLIFT**
- BUTTLE LAKE GROUP**
- PBs ST. MARY'S LAKE: Volcanic sandstone, conglomerate, sandstone-argillite turbidites
- UPPER PENNSYLVANIAN TO PERMIAN**
- PBmm MOUNT MARK FORMATION: Massive calcarenite, calcirudite; chert, argillite
- MISSISSIPPIAN TO PENNSYLVANIAN**
- PBI FOURTH LAKE FORMATION: Cherty sediments, volcanic sandstone, argillite, calcarenite
- SICKER GROUP**
- PSmr MCLAUGHLIN RIDGE FORMATION: Thickly bedded tuffite, lithic tuffite; laminated cherty tuff; heterolithic lapilli tuff, breccia
- DEVONIAN**
- PSn NITINAT FORMATION: Porphyritic agglomerate, breccia, lapilli and crystal tuff; porphyritic pillowed and massive flows
- PSd DUCK LAKE FORMATION: Pillowed and massive basalt flows, pillow breccia; chert, jasper, minor felsic tuff, dacite intrusions

- INTRUSIVE ROCKS**
- CENOZOIC**
- TERTIARY**
- EARLY TO MIDDLE EOCENE**
- ETt TERTIARY INTRUSIONS: Quartz diorite, granodiorite, quartz monzonite
- ETs SOOKE GABBRO: Augite gabbro
- MESOZOIC**
- JURASSIC**
- EARLY TO MIDDLE JURASSIC**
- Jg ISLAND PLUTONIC SUITE: Granodiorite, quartz diorite
- TRIASSIC**
- LATE TRIASSIC**
- uTi SILLS AND DYKES: Diabase and gabbro (coeval with Karmutsen Formation, informally known as Mount Hall Gabbro)

- METAMORPHIC ROCKS**
- JURASSIC AND CRETACEOUS**
- JKlr LEECH RIVER COMPLEX: Greywacke, phyllite, schist
- JKPr PACIFIC RIM COMPLEX: Greywacke, argillite, meta-siltstone
- PALEOZOIC AND MESOZOIC**
- PMw WESTCOAST COMPLEX: Gneiss, amphibolite, migmatite, quartz diorite

Geological legend and base derived from:  
 Massey, N.W.D. (1991): Personal Communication;  
 Massey, N.W.D. and Friday, S.J. (1988): Geology of the Port Alberni-Nanaimo Lakes Area, Vancouver Island, Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork 1988.  
 Massey, N.W.D., Compiler (1987): Geology of the Duncan and Chemainus River Area, Vancouver Island, Ministry of Energy, Mines and Petroleum Resources, Open File Map 1987-2, 1:20,000.  
 Massey, N.W.D., Compiler (1987): Geology of the Cowichan Lake Area, Vancouver Island, Ministry of Energy, Mines and Petroleum Resources, Open File Map 1987-2, 1:20,000.  
 Muller, J.E. (1982): Geology of the Nitinat Lake Map Area, Vancouver Island; Geological Survey of Canada, Open File 821.11, 1:25,000.  
 Roddick, J.A., Muller, J.E. and Oklitch, A.V., Compilers (1978): Fraser River; Geological Survey of Canada, Map 1389A, 1:100,000.

**MAP LEGEND 092C**

MINFILE NUMBER	NAME	COMMODITIES	MINFILE NUMBER	NAME	COMMODITIES
001	SAN MATEO (L-623)	CU ZN AG PB	076	CANDY	CU AU AG RO GS
002	CROWN PRINCE (L-656)	FE MA	077	EBB 1-12	CU ZN AU AG
003	IRON GRIFF (L-376)	FE MA	078	1-3	CU ZN AU AG
004	BALD EAGLE (L-659)	FE MA	079	NAM	FE CU MA ZN
005	LOD OF THE ISLES (L-695)	FE MA	080	JASPER 1	CU AG PB ZN
006	DOER	FE CU ZN AU AG	081	TAM 16	CU ZN
007	HOPKINSON	CU AG AU	082	DA	NO CU
008	HAPPY JOHN	CU AG AU	083	NET	NO
009	DEFIANCE (L-498)	FE MA CU AG	084	SPENCER CREEK	LS
010	HITINAT LAKE - SE	FE MA CU AG	085	HARRIS CREEK	LS
011	HITINAT LAKE - NW	LS MB	086	GORDON RIVER	LS
012	REFOC	CU FE MA AG ZN	087	NIXON CREEK	LS
013	DELPHI	CU	088	PAN	CU
014	ALLES	CU	089	VAL	CU
015	FAIRSERVICE CREEK	LS	090	REKO 3	FE CU MA
016	HARRIS BAY	CU AG AU ZN	091	REKO 10	FE CU AU
017	BLUE GROUSE (L-32,33)	CU AG AU ZN	092	TZANTUS ISLAND	LS
018	COWEG	CU AG AU RO ZN	093	DORE 30	CU MO
019	EL CAPITAN	AU AG CU	094	HOLF	CU
020	COTTWOOD	AU CU CO	095	DORCHLESIT INLET	LS
021	SILVER LEAF (L-296)	AU AG CU	096	AI	CU AG ZN AU
022	BUGABOO	FE MA	097	SUS	CU AG
023	DAVID (L-170)	FE MA	098	CR	CU AG ZN AU
024	ELIJAH (L-207)	FE MA	099	DORE 52	CU FE MA
025	SIBONG (L-145)	FE MA	100	DORE 99	CU
026	SHERK LAKE	RO GS MN	101	DORE 97	CU
027	BUSH POHLE (L-140)	FE MA	102	LS/PB	CU
028	ECOLE HARBOUR	LS	103	POLLY	CU FE MA
029	TIDE	FE MA	104	DI	CU MA FE
030	ROSE (L-124)	FE MA	105	ARSENIO	AU
031	TALLY (L-519-521)	FE MA CU CO AG	106	DORE 162	CU
032	SARITA RIVER	CU ZN PB AU AG FE	107	HARRIS	FE MA CU
033	MOUNTAIN	FE MA	108	SUNNYSIDE (L-34,39)	CU AG
034	RITE 2	AU AG MO CU	109	RITE 1	CU
035	VIKING	CU AG PB	110	REKO 38	MA CU
036	WILLCREST	CU FE MA	111	HITINAT	NO CU
037	AVALLIN	CU AG	112	CLOSE	NO CU
038	TAMITH	CU FE MA	113	ROCK	RO GS MN CU
039	ALPHA-BETA	CU AG AU FE	114	HARDROPER	RO MN GS
040	CROM	CU FE MA AU	115	MEADE	RO MN GS CU
041	ANDOLY	CU AG PB ZN CU	116	ANKOR	AU AG PB ZN MO
042	GOLD DIKE	LS	117	STANLEY CREEK	LS
043	MARBLE COVE LIMESTONE	AU	118	LIKON ISLAND	MA
044	SOMBRIO PLACERS	AU	119	NI	AU AG CU ZN PB
045	ENTERPRISE	CU AG	120	BATH	CU
046	PAGET	AU ZN PB	121	WRECK BAY	CU
047	CLAYTON	CU AG AU	122	UCCELLET	LS
048	EDITH (L-108)	CU AG AU	123	WILDCAT	MA
049	POEIT WAK	LS	124	GAD	FE MA
050	MARBLE COVE	CU AG	125	LORI	CU AG AU PB ZN
051	BEASON	FE MA	126	PAULA	AU AG CU
052	SUBARCTIC PACIFIC	NI	127	HEATHER	AU AG CU
053	PETERSON	CU	128	ECHO 1	AU AG
054	COPPER KING	CU	129	MIKE	AU AG CU
055	COPPER PRINCE	CU	130	SILVERCROSS	AG CU
056	CLAYTON	CU	131	3 X 3	AU
057	MEADE CREEK	AU	132	LOYD	AU AG CU ZN PB
058	WHEAT	CU	133	HARBET	AG
059	DIXON	AU PB	134	MCDUGALL	AU CU
060	SILVER KING	AU AG CU	135	NICHOLSON CREEK	AU NA
061	PANTHER	CU	136	CHEEK	CU
062	MA	CU AG ZN PB	137	REN	CU
063	ARCHER	CU AG	138	OWE 1	CU
064	SANTA MARIA ISLAND (L-33)	CU FE MA AG	139	WIDON CREEK	RO MN GS
065	ARCHER	CU AG PB	140	MURTON	CU AG PB
066	SANTA MARIA ISLAND (L-329)	CU FE MA AG	141	EBB	CU NI CO
067	SOUTHERN CROSS (L-329)	CU AG	142	LIZARD	CU
068	ALFREDA (L-777)	CU ZN	143	RAT	AU HG
069	KLANAM AND CANTON	CU ZN	144	SOLOMON	AU AG CU MA GS PB ZN *
070	SPANISH	AU	145	EAGLE	FE MA
071	SUNRO	CU	146	REKO NORTH	FE MA
072	SARITA RIVER LIMESTONE	LS	147	ROCK	CU
073	SUNRO	CU AG AU MO	148	SILVER PLATE	AG AU CU
074	COV	CU PB ZN AU AG	149	ROCK	CU
075	AB	CU	150	ESQUEL X	AU CU PB ZN

**COMMODITY LEGEND**

CODE (INDEX)	COMMODITY	COMMODITY (INDEX)	CODE
*	7 or more commodities	7 or more commodities	*
AG	Silver	Cobalt	CO
AU	Gold	Copper	CU
CU	Cobalt	Gemstones	GS
CS	Copper	Gold	AU
FE	Iron	Iron	FE
LS	Limestone	Limestone	LS
MA	Marble	Marble	MA
MB	Manganese	Manganese	MB
MG	Mercury	Mercury	MG
MO	Molybdenum	Molybdenum	MO
NI	Nickel	Nickel	NI
NO	Lead	Rhodinite	RO
RO	Rhodinite	Silver	AG
RS	Tungsten	Tungsten	RS
ZN	Zinc	Zinc	ZN