

Province of British Columbia
 Ministry of Energy, Mines and Petroleum Resources
 MINERAL RESOURCES DIVISION
 GEOLOGICAL SURVEY BRANCH
 OPEN FILE MAP 1989-26 (SHEET 1 OF 2)

GEOLOGY OF THE TENQUILLE CREEK TO OWL MOUNTAIN AREA

NTS 92J/07 AND 10

COMPILED BY
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GEOLOGY BY
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SCALE 1:50 000

LEGEND

LAYERED ROCKS

- QUATERNARY**
 Q ALLUVIUM, TILL, SAND, GRAVEL
- UPPER TRIASSIC**
 CADWALLADER GROUP (?)
 Utc UNDIVIDED ANDESITIC TUFFS AND FLOWS WITH LESSER RHYOLITIC TO DACITIC TUFFS AND BRECCIAS, INTERBEDDED WITH ARGILLITE, GREYWACKE, CONGLOMERATE, LIMESTONE AND EPICLASTIC VOLCANIC SEDIMENTS.
- INCLUDES HORIZONS WHERE THE FOLLOWING DISTINCTIVE LITHOLOGIES PREDOMINATE:
- f RHYOLITIC TO DACITIC VOLCANICS: QUARTZ CRYSTAL TUFF, QUARTZ-EYE LITHIC TUFFS, SILICEOUS ERGALITES.
 - s ARGILLITE, GREYWACKE, CONGLOMERATE, VOLCANIC CONGLOMERATE, MINOR TUFFS.
 - c COARSE VOLCANIC CONGLOMERATE CONTAINING MANY COBBLES AND BOULDERS OF DIORITE AND QUARTZ DIORITE; OTHER CLASTS INCLUDE VOLCANIC AND SEDIMENTARY LITHOLOGIES DESCRIBED ABOVE.
 - e QUARTZ-RICH EPICLASTIC SEDIMENTS: QUARTZOSE SANDSTONE AND SILTSTONE, QUARTZ-FELDSPATHIC CRYSTAL TUFFS, VOLCANIC CONGLOMERATE AND MINOR ARGILLITE, INTERBEDDED WITH WELL LAYERED AND BEDDED SEDIMENTS.
 - l LIMESTONE, DISCONTINUOUS LENSES, ALGAL REEFS; MARBLE - INCLUDES POOLS OF CALC-SILICATE ALTERATION

INTRUSIVE ROCKS

- COAST INTRUSIONS (AGES UNKNOWN)**
- GRANITE, GRANODIORITE, QUARTZ DIORITE.
 - DIORITE, HORNBLENDE DIORITE.

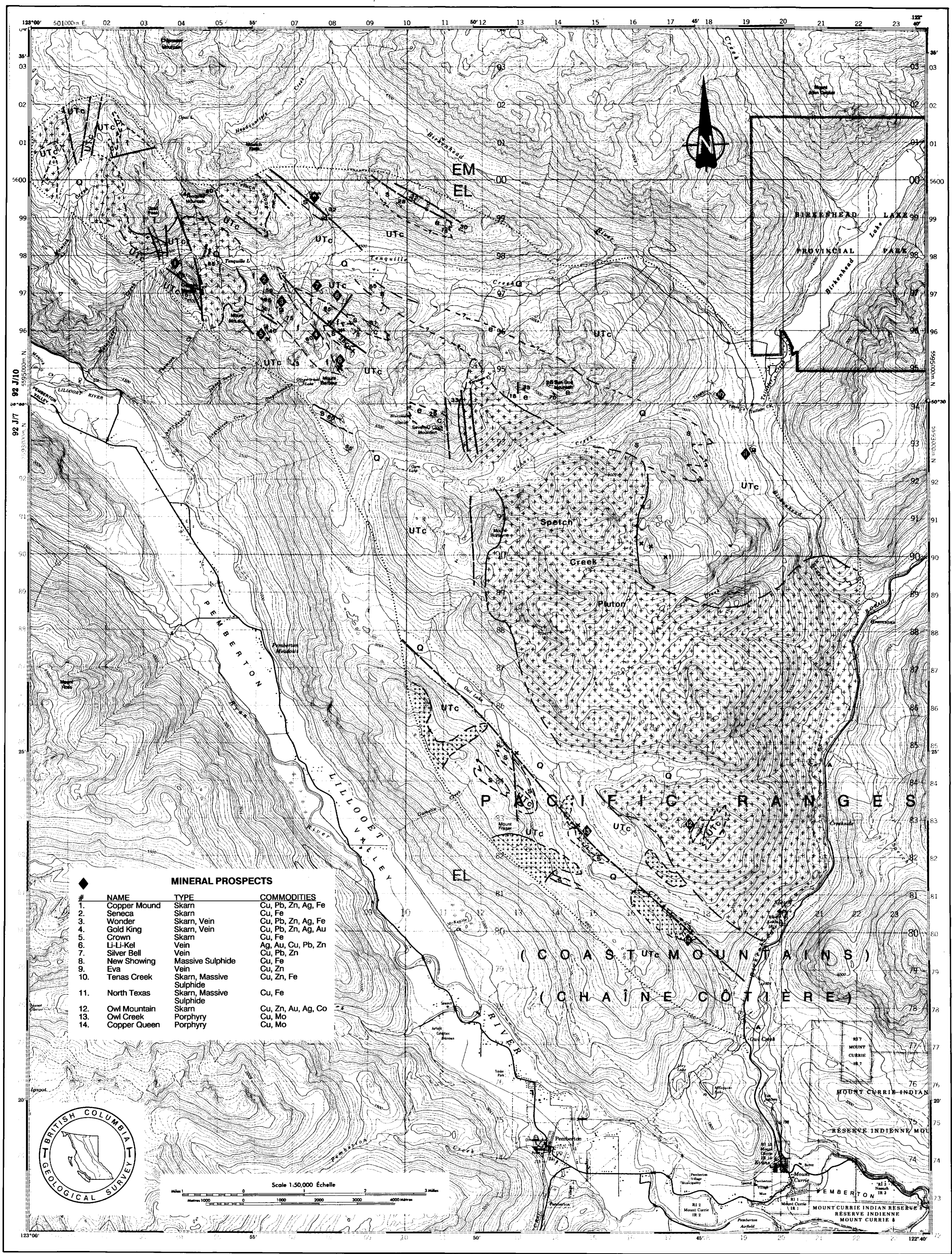
SYMBOLS

- Geological boundary (defined, approximate, assumed).....
- Lithologic boundary (approximate).....
- Bedding (horizontal, inclined, vertical).....
- Bedding with tops observed (inclined, vertical).....
- Faults (defined, approximate).....
- Foliation (inclined, vertical).....
- Joints (inclined, vertical).....
- MINERAL PROSPECTS
- Adits (open, caved).....
- Shafts.....
- Open Cuts.....
- Mineral showings.....

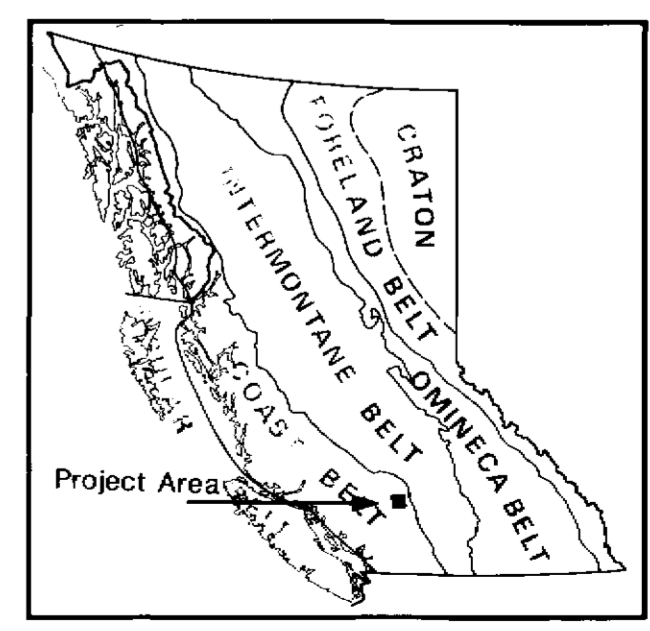
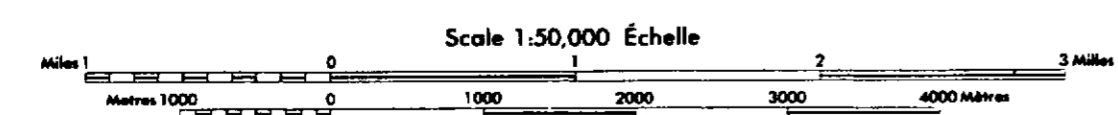
SELECTED REFERENCES

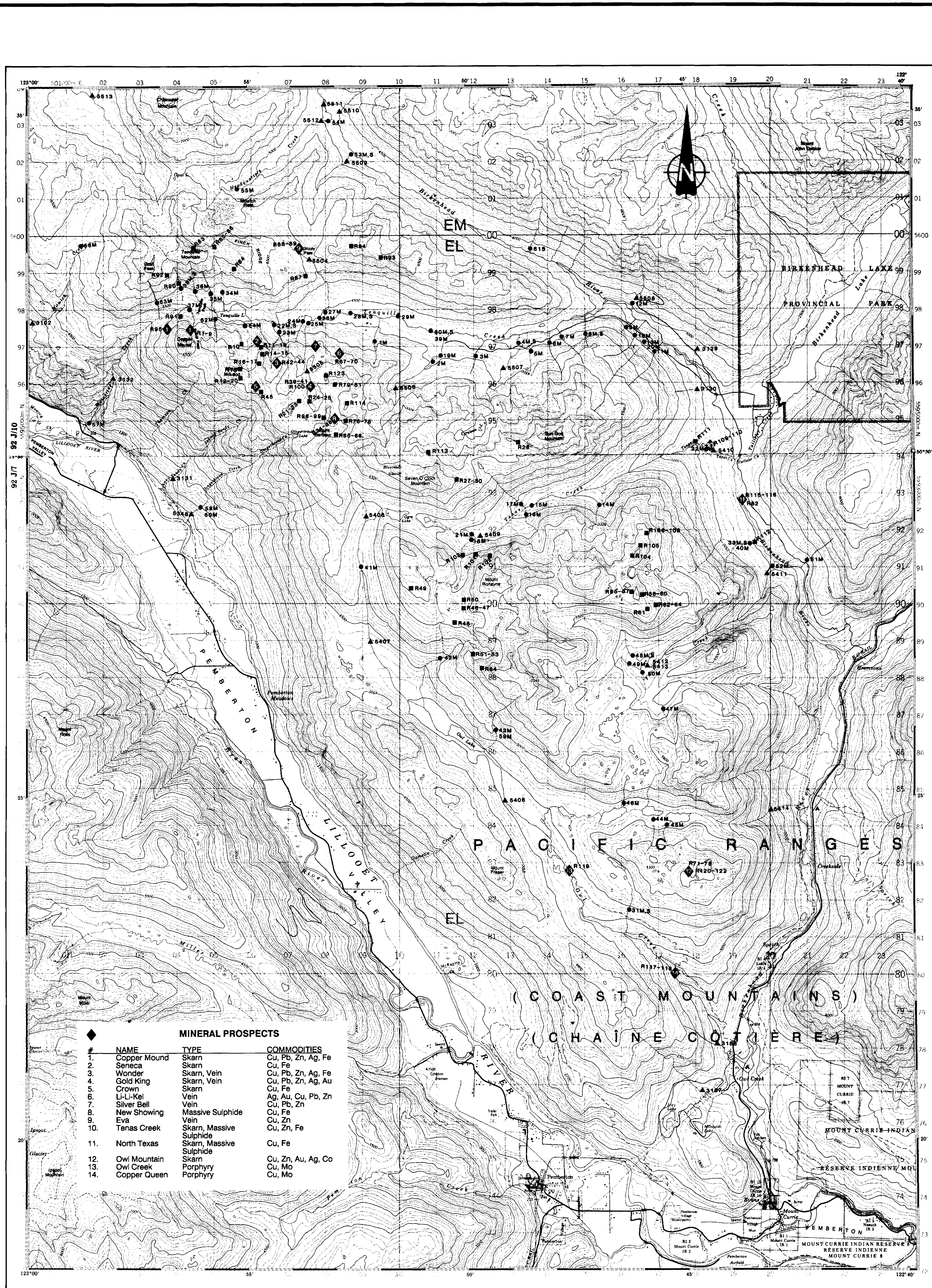
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Note: this map includes information taken from Assessment Reports on file with the British Columbia Geological Survey Branch, particularly in the extreme northwest corner (headwaters of Mowich Creek) and in Owl Creek valley.



MINERAL PROSPECTS			
#	NAME	TYPE	COMMODITIES
1.	Copper Mound	Skarn	Cu, Pb, Zn, Ag, Fe
2.	Seneca	Skarn	Cu, Fe
3.	Wonder	Skarn, Vein	Cu, Pb, Zn, Ag, Fe
4.	Gold King	Skarn, Vein	Cu, Pb, Zn, Ag, Au
5.	Crown	Skarn	Cu, Fe
6.	Li-Li-Kel	Vein	Ag, Au, Cu, Pb, Zn
7.	Silver Bell	Vein	Cu, Pb, Zn
8.	New Showing	Massive Sulphide	Cu, Fe
9.	Eva	Vein	Cu, Zn
10.	Tenas Creek	Skarn, Massive Sulphide	Cu, Zn, Fe
11.	North Texas	Sulphide	Cu, Fe
12.	Owl Mountain	Skarn, Massive Sulphide	Cu, Zn, Au, Ag, Co
13.	Owl Creek	Porphyry	Cu, Mo
14.	Copper Queen	Porphyry	Cu, Mo





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Table 1: GEOCHEMICAL ANALYSES OF ROCK SAMPLES, 1988. Columns include sample ID, Au, Ag, Cu, Mo, Ni, Pb, Zn, Fe, Ni, Mn, Co, As, Sb, Bi, Hg, W, Cd, Cr, V, Ba, Pb, and Source. Lists numerous rock samples (GM-1 to GM-123) with their respective concentrations.

Table 2: 1988 STREAM GEOCHEMICAL SURVEY. Columns include sample ID, Au, Ag, Mo, Cu, Pb, Zn, Fe, Ni, Mn, Co, As, Sb, Bi, Hg, W, Cd, Cr, V, Ba, Pb, and Source. Lists stream sediment samples (T-38-M to T-64-M) with their respective concentrations.

MINERAL PROSPECTS table with columns for NAME, TYPE, and COMMODITIES. Lists 14 prospects including Copper Mound, Seneca, Wonder, Gold King, Crown, LHL-Kel, Silver Bell, New Showing, Eva, North Texas, Owl Mountain, Owl Creek, and Copper Queen.

ANALYTICAL METHODS: ICP analysis on a 0.5 gram sample; the acid leach used is partial for Mn, Fe, Sr, Cr, Ba, and Co. Au: acid leach and atomic absorption analysis from a 20 gram sample. Hg: flameless atomic absorption analysis.