

### Location/Identification

<b>MINFILE Number:</b>	092C 098		
<b>Name(s):</b>	<u>CR</u> HANK, CC, KELLY		
<b>Status:</b>	Prospect	<b>Mining Division:</b>	Victoria
<b>Regions:</b>	British Columbia, Vancouver Island	<b>Electoral District:</b>	Alberni-Qualicum
<b>BCGS Map:</b>	092C088	<b>Resource District:</b>	South Island Forest District
<b>NTS Map:</b>	092C15E, 092C16W	<b>UTM Zone:</b>	10 (NAD 83)
<b>Latitude:</b>	48 48 11 N	<b>Northing:</b>	5406645
<b>Longitude:</b>	124 29 53 W	<b>Easting:</b>	389999
<b>Elevation:</b>	250 metres		
<b>Location Accuracy:</b>	Within 500M		
<b>Comments:</b>	Centre of Hank claim near CR zone (Assessment Report 12618).		

### Mineral Occurrence

<b>Commodities:</b>	Copper, Silver, Zinc, Gold		
<b>Minerals</b>	<b>Significant:</b>	Pyrite, Chalcopyrite, Sphalerite	
	<b>Associated:</b>	Quartz, Tremolite	
	<b>Alteration:</b>	Garnet, Epidote, Actinolite, Ilvaite, Magnetite, Malachite, Azurite, Hematite	
	<b>Alteration Type:</b>	Skarn, Oxidation	
	<b>Mineralization Age:</b>	Unknown	
<b>Deposit</b>	<b>Character:</b>	Stratabound, Disseminated, Massive	
	<b>Classification:</b>	Skarn	
	<b>Shape:</b>	Irregular	<b>Modifier:</b> Sheared, Faulted
	<b>Dimension:</b>	12x0x0 metres	<b>Strike/Dip:</b> 075/75N
	<b>Comments:</b>	The CR zone, 12 metres thick, trends east.	

### Host Rock

<b>Dominant Host Rock:</b>	Sedimentary		
<b>Stratigraphic Age</b>	<b>Group</b>	<b>Formation</b>	<b>Igneous/Metamorphic/Other</b>
Upper Triassic	Vancouver	Karmutsen	-----
Jurassic	-----	-----	Island Plutonic Suite
<b>Isotopic Age</b>	<b>Dating Method</b>		<b>Material Dated</b>
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<b>Lithology:</b>	Limestone, Altered Volcanic Rock, Carbonate, Skarn, Diorite		

### Geological Setting

<b>Tectonic Belt:</b>	Insular	<b>Physiographic Area:</b>	Vancouver Island Ranges
<b>Terrane:</b>	Wrangell		
<b>Metamorphic Type:</b>	Regional		
<b>Grade:</b>	Greenschist		
<b>Comments:</b>	Located in the Cowichan uplift.		

## Inventory

**Ore Zone:** SAMPLE  
**Category:** Assay/analysis

**Year:** 1984  
**Report On:** N  
**NI 43-101:** N

**Sample Type:** Chip

Commodity	Grade
Silver	7.3000 grams per tonne
Copper	2.0200 per cent
Zinc	0.0450 per cent

**Comments:** Weighted average across 1.55 metres of exposed section of the zone.

**Reference:** Assessment Report 12618.

## Capsule Geology

The CR showing is located on the bank of the Caycuse River (on the Hank claim) 23 kilometres southwest of the village of Caycuse. On the Caycuse River, copper mineralization was first observed in 1920.

The area is underlain by intermediate volcanic and minor intercalated impure carbonate rocks of the Upper Triassic Karmutsen Formation, Vancouver Group. These have been intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite. The Caycuse River is believed to be a major fault. The rocks, comprising basalt, limestone, marble, and diorite, are altered and sheared.

The skarns are primarily exposed on the north side of the Caycuse River and form an en echelon arrangement. Skarn occurs as pods and tabular vertical bodies, replacing impure limestone or volcanic rocks. The mineral assemblage comprises quartz and tremolite with lesser amounts of garnet, epidote, actinolite and ilvaite. Mineralization consisting of pyrite, chalcopyrite, magnetite and minor sphalerite occurs within massive irregular sulphide pods. Magnetite occurs ubiquitously in small amounts and iron oxides, malachite and azurite are common. Volcanic rocks are locally altered to a dark green massive and dense hornfels containing massive and disseminated pyrite and minor chalcopyrite in small lenses.

The CR zone strikes 75 degrees and the bedding dips 60 to 80 degrees north. The 12 metre thick zone occurs within the alteration halo of diorite. Rock chip samples, taken from the exposed sections of the CR zone, assayed a weighted average over 1.55 metres of 2.02 per cent copper, 0.045 per cent zinc, and 7.3 grams per tonne silver (Assessment Report 12618). Diorite, in the footwall limestone bed, contained an estimated 0.5 to 1 per cent disseminated copper in chalcopyrite over 1 metre (Assessment Report 11232).

A brecciated zone in a north trending fault, exposed in the north bank of the Caycuse River, was sampled and the highest assay was 0.17 grams per tonne gold and 62.32 grams per tonne silver (Assessment Report 12618).

The Cougar Creek or CC showing has been described as follows: "good grade chalcopyrite occurs in the limestone skarns over an area 120 metres long and 30 metres wide in narrow folded bands of limestone and tuff".

## Bibliography

- EMPR ASS RPT 11232, \*12618, 16162  
EMPR BULL 37  
EMPR FAME FILE (1987 E161)  
EMPR FIELDWORK 1977, p. 23; 1986, pp. 223-229; 1987, pp. 81-91; 1989, pp. 503-510  
EMPR GEM 1975-43  
EMPR MP MAP 1992-2  
EMPR OF 1987-2; 1988-24; RGS 24, 1990  
EMPR PF (In 092C General File - Aeromagnetic Contour Map, Nitinat Lake Area, Noranda Mines Ltd., date unknown and B.C. Forest Products Road Map, Cowichan Lake Area, 1963; Northcote, K.E. (1975): Reports, Notes, Assays, Sections)  
GSC MAP 1386A  
GSC MEM 13  
GSC OF 463; 821; 1272  
GSC P 72-44; 76-1A; 79-30  
Carson, D.J.T. (1968): Metallogenic study of Vancouver Island with emphasis on the relationships of mineral deposits to plutonic rocks, Ph.D. Thesis, Carleton University

**Date Coded:** 1987/06/10

**Coded By:** Larry Jones (LDJ)

**Field Check:** N

**Date Revised:** 1991/02/01

**Revised By:** Dorthe E. Jakobsen (DEJ)

**Field Check:** N