

### Location/Identification

<b>MINFILE Number:</b>	092HSW079	<b>National Mineral Inventory Number:</b>	092H4 Cu1
<b>Name(s):</b>	<b><u>LUCKY FOUR (EAST)</u></b> RICO		
<b>Status:</b>	Showing	<b>Mining Division:</b>	New Westminster
<b>Regions:</b>	British Columbia	<b>Electoral District:</b>	Chilliwack-Kent
<b>BCGS Map:</b>	092H013	<b>Resource District:</b>	Chilliwack Forest District
<b>NTS Map:</b>	092H04E	<b>UTM Zone:</b>	10 (NAD 83)
<b>Latitude:</b>	49 09 40 N	<b>Northing:</b>	5446345
<b>Longitude:</b>	121 34 25 W	<b>Easting:</b>	603991
<b>Elevation:</b>	1720 metres		
<b>Location Accuracy:</b>	Within 500M		
<b>Comments:</b>	The East zone of the Lucky Four occurrence is about 900 metres east of Foley Peak (Minister of Mines Annual Report 1949, Figure 27).		

### Mineral Occurrence

**Commodities:** Copper

**Minerals**

<b>Significant:</b>	Chalcopyrite
<b>Alteration:</b>	Garnet
<b>Alteration Comments:</b>	The skarn minerals were not reported for this zone but may be assumed to be similar to the Main zone of the Lucky Four prospect (092HSW007).
<b>Alteration Type:</b>	Skarn

**Deposit**

<b>Character:</b>	Massive, Podiform, Disseminated
<b>Classification:</b>	Skarn
<b>Type:</b>	K: SKARN

**Strike/Dip:** 000/

### Host Rock

**Dominant Host Rock:** Metasedimentary

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Cretaceous-Tertiary	-----	-----	Custer Gneiss
Miocene	-----	-----	Mount Barr Batholith

Isotopic Age	Dating Method	Material Dated
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**Lithology:** Greywacke, Argillite, Schist, Gneiss, Granodiorite, Skarn

**Comments:** The metasedimentary host is not known but assumed to be one of Custer Gneiss, Settler Schist or Slollicum Schist.

### Geological Setting

<b>Tectonic Belt:</b>	Coast Crystalline	<b>Physiographic Area:</b>	Cascade Mountains
<b>Terrane:</b>	Undivided Metamorphic Assembl.		

### Inventory

No inventory data

## Capsule Geology

Muller has mapped the area of Foley Peak as being underlain by three metamorphic assemblages of Mesozoic and/or Paleozoic rocks, metamorphosed in the Cretaceous, all in fault contact (GSC Map 41-1989). These include the Custer Gneiss, the Settler Schist (in part) and the Slollicum Schist. Muller maps a fourth unit of ultramafic rock, of similar age. A few kilometres to the north of the Lucky Four prospect is the contact with the Miocene Mount Barr batholith consisting of granodiorite. Intrusive rock of the Oligocene Chilliwack batholith occurs within several kilometres to the south. Hostrocks are reported to be greywacke, argillite, schist and gneiss.

The East showing is a skarn zone 4.6 metres wide with an exposed horizontal length of 46 metres. Northwestward it splits into narrow stringers and disappears in gneissic banding; to the southeast it is drift covered. One body of massive chalcopyrite, about 28 square metres, occurs in this zone. The East showing occurs less than 15 metres from an intrusion of granodiorite. See the Lucky Four prospect (092HSW007) for further details.

## Bibliography

EMPR AR 1916-264; 1917-286,300; \*1918-284; 1919-234,258; 1924-257; 1925-293; 1926-324; \*1949-214; 1950-167; 1951-194; 1952-206; 1953-158; 1954-519; 1955-74; 1956-115; 1965-219; 1967-64  
EMPR ASS RPT 455, 458, \*17587, \*18537, \*19822  
EMPR FIELDWORK 1985, pp. 95-97  
EMPR GEM 1971-257  
EMPR PF (Plans of Crown grant)  
GSC MAP 737A; 12-1969; 1069A; 41-1989  
GSC P 69-47  
EMPR PFD 750527, 820901, 826728, 681228, 681230, 681233, 681234, 681237, 681238, 681239, 681240, 681241, 681242

<b>Date Coded:</b>	1985/07/24	<b>Coded By:</b>	BC Geological Survey (BCGS)	<b>Field Check:</b>	N
<b>Date Revised:</b>	1994/11/15	<b>Revised By:</b>	Garry J. Payie (GJP)	<b>Field Check:</b>	N