Tom Schoots
Apr. 12/05

Possible IOCG camp

884666 Kringle

on

North Vancouver Island

Properties offered for Option

include

Kringle-consolidated

(includes Kringle, Puff, Pastry, Macaroon, Oreo, Krisp + prospective ground)

Klejne-consolidated

(Includes Boyes' Creek and Adam West showings and prospective ground)

and

Rusk

(includes Eloise and prospective ground)

by

Mikkel Schau

IOCG deposits are large volume, low- grade deposits of copper and minor gold associated with magnetite or hematite. Although their exact provenance is in dispute, certain features are common in a large number of deposits.

Deposits such as Olympic dam in the Proterozoic of Australia or Candelabria in Northern Chile have recently fueled the exploration imagination. Sillitoe in a published version of his keynote speech at IAGOD Symposium in Windhoek, Namibia, has focused on the IOCG Province of Chile as the most recent and least changed area in which to pursue more particulars about the deposit type (Sillitoe, 2003).

	Mt	%Cu,	ppb Au	ppm Ag
Candelabria	470	.95%	220	3.1

After reading the article I was struck with how many similarities there are between showings in the Karmutsen and the IOCG Belt in Chile. IOCG belts are closely associated with Mesozoic batholiths and major arc parallel fault systems. Northern Vancouver Island has both and shows many similarities to the Chile Belt (see attached table). Other enterprising Junior Mining companies are also pursuing these similarities with some success elsewhere in the Canadian Cordillera.

I have assembled three land packages with interesting IOCG possibilities. They are, with decreasing knowledge and increasing risk:

Kringle-consolidated (about 100 claim units after conversion) which lump together several showings which I have found since 2000.

Kringle, Puff, Pastry, Krisp, Oreo, Macaroon claims contain new showings

Klejne-consolidated (about 83 claim units) which brings together the Boyes' Creek prospect, with Adam West prospect, as well as some very prospective ground

Rusk (about 25 claim units) which picks up the Eloise showing in very prospective ground.

Chart comparing North Chile IOCG camp with North Vancouver Island

North Chile	FEATURE	North Vancouver Island	example
Upper Triassic Negra Formation basaltic andesites	basal volcanics	Middle to upper Triassic Karmutsen Formation basalts/feldspar phyric with local vesicular sections	host to most of showings and prospects
Cobre del punta Formation (Host)	calcalkaline volcanics	Bonanza Formation	N/A
burial, regional prehnite-pumpellyite	metamorphism	burial, regional prehnite- pumpellyite	present
Orogen parallel, Atacama fault transverse slip	regional faults	orogen parallel, north south and north-northwest trending transverse slip	many secondary cross faults
oxidized gabbro- diorite-granodiorite suite	plutons	(Adam River Pluton) oxidized diorite, granodiorite, and local meladiorite	Elevated Magnetic Susceptibility
early Jurassic to early Cretaceous	age of plutons	Jurassic	local age date
late mafic dykes in faults with mineralization and later	late mafic dykes	newly recognized mafic dykes cut mineralization	at Krisp
veins, mantos, skarns, porphyry (often in preexisting fault structures), also porphyry copper,	style of mineralization	veins, endo and exo-skarns, proximal and distal skarns, shear zone replacement, breccias, replacement in permeable zones, with felsic	Kringle, Pastry, Puff, Krisp, Oreo, Macaroon
composite IOCG		dykes	
Iron oxide with copper and minor gold	type of mineralization	iron oxide with copper, silver, minor gold and palladium Local CuO!	6+%Cu, 68+ppm Ag 295 ppb Au, 118 ppb Pd
Mo, Co, As, U, Ni, P, LREE	other metals	elevated elements in acid soluble form such as Mo, Co, Ni, V, Cr, As, U, Se, P	especially in Kringle* see table below

	locally important	magnetic signature	local magnetic "halo" developed in Karmutsen near intrusions	within a few km, outboard of intrusive contact
] 1	Showings near magnetic signature, or magnetite deposits	Showings near magnetic signatures	showings developed within a few Km of contact, inside magnetic halo.	Often local skarn assemblages, or felsic dyke breccias with magnetite veins/host
1	magnetite low Ti type	Magnetite low Ti Type	magnetite low Ti type	see Kringle magnetite
1	apparent aquitards, focus mineralization, mantos	local carbonate beds	thin limestone beds in Karmutsen, Quatsino Limestone	local skarns developed
k r r	oiotite-qz-magnetite- cspar alteration oreceeded coper mineralization at Candelabria	alteration	biotite-qz-magnetite-kspar alterationn	in endoskarn in Kringle
b	chalcopyrite, some cornite, chalcocite cocal, pyrite scarce	ore mineralogy	chalcopyrite, some bornite, chalcocite local, pyrite scarce	ubiqitous, in shear zones and amygdales
le	ocally abundant	magnetite veins	locally recognized cutting host rocks and associated felsite dyke breccias,	Pastry, Kringle, Puff

Chile-data and features-discussed, after Sillitoe 2003 article in Mineralium Depositicum; North Vancouver Island data from Schau assessment reports 2000-2005 Table showing best values found in mineralized Kringle-cons showings, of elements often elevated in IOCG deposits elsewhere.

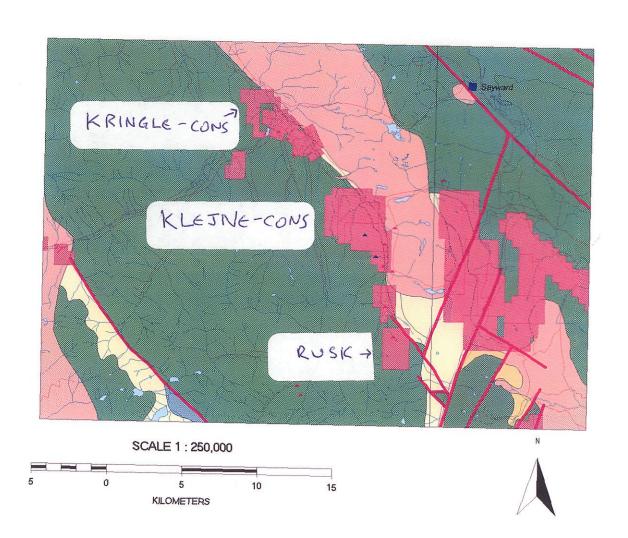
Cu Au Ag Pd	7.05 % 295 ppb 67.2 ppm 118 ppb
Mo	1153 ppm
Co-sol	806 ppm
Ni-sol	559 ppm
V-sol	3885 ppm
Cr-sol	333 ppm
As	326 ppm
U	54 ppm
P	.195 %
La	39 ppm
Bi	99 ppm
Cd	71.7 ppm
Se	61.9 ppm
Zn	3421 ppm

These values are maximum values from handspecimens; they do not give any quantitative information, only that such values can occur in these site.

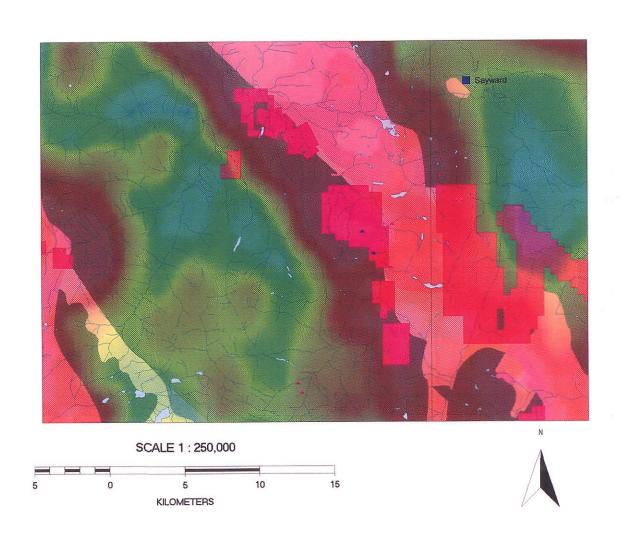
Magnetite from Kringle skarn has been analysed, it is low Ti type, presumably hydrothermal.

Fe	36.7%
Ti	.001 %
Mn	535 ppm
Cr	4 ppm
Ni	<1 ppm
V	9 ppm
P	.005%
As	6 ppm
U	15 ppm
La	<1 ppm

Adam River Claims



Adam River Claims



Kringle-cons

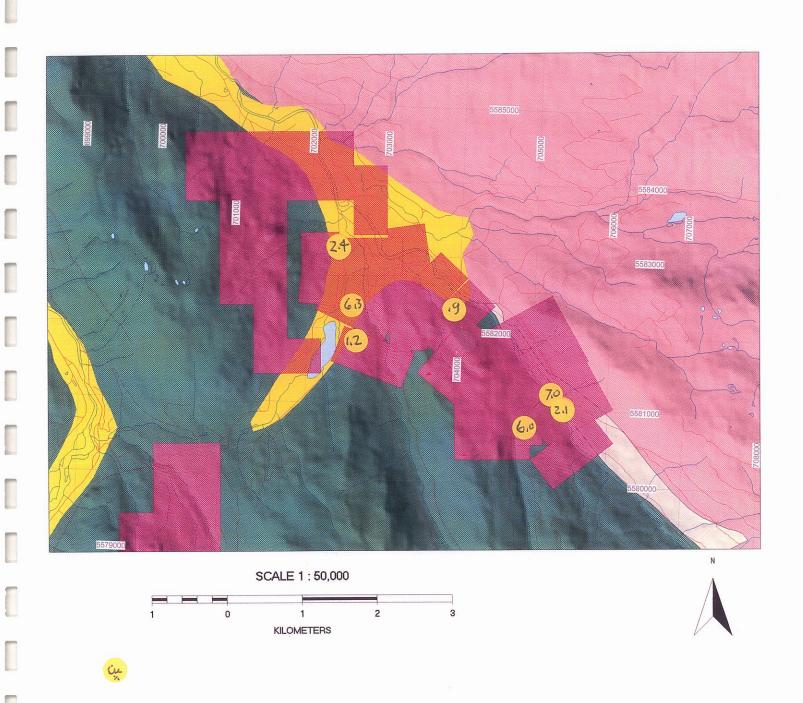
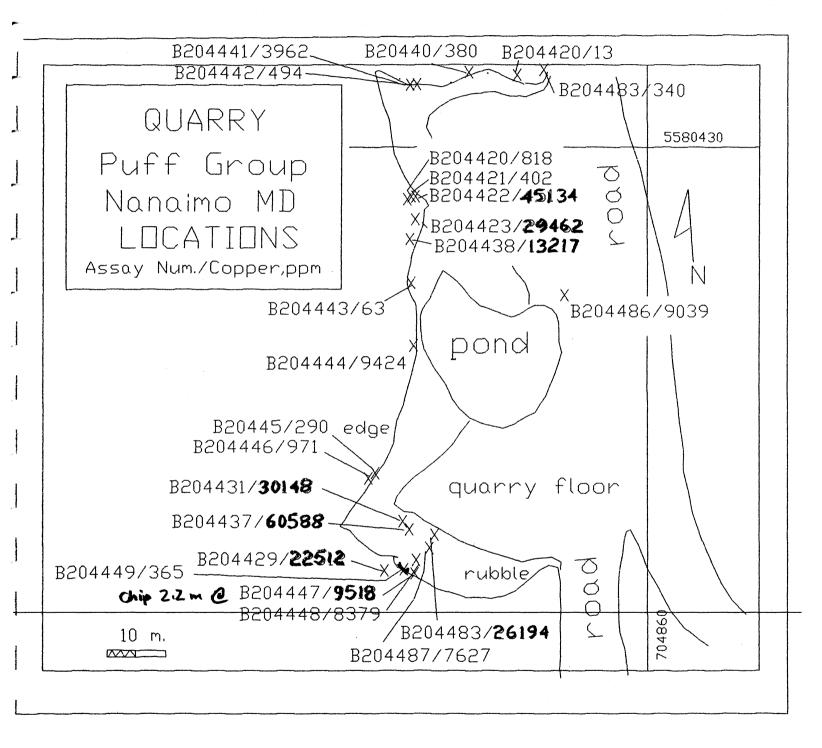
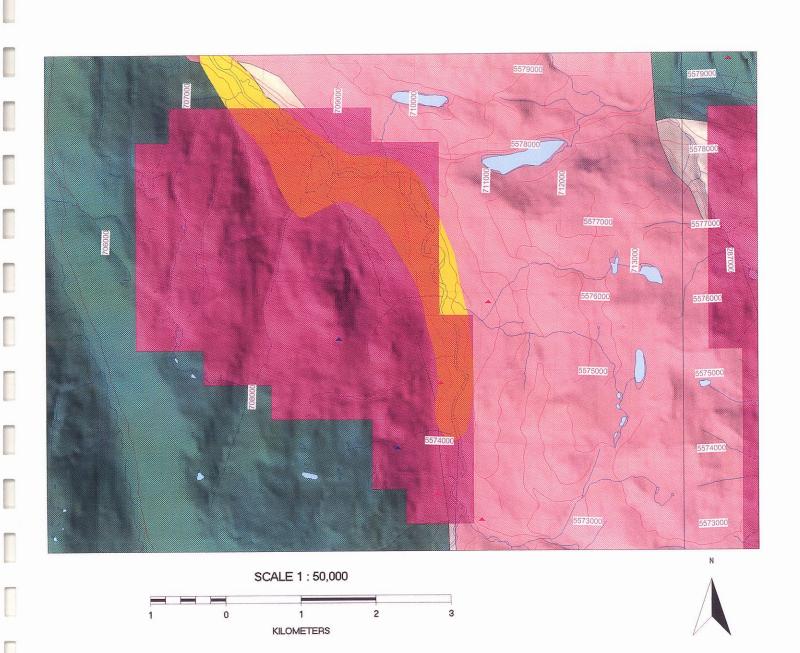


Figure 8, Detail map of quarry showing locations of assays and associated copper values.



Klejne-cons



Search MINFILE Database

Run Date: 2005/Apr/09 Run Time: 04:39 PM

MINFILE / www MASTER REPORT GEOLOGICAL SURVEY BRANCH MINISTRY OF ENERGY & MINES

MINFILE Number: 092L 222

National Mineral Inventory:

Mining Division: Nanaimo

UTM Zone: 09 (NAD 83)

Northing: 5575308

Easting: 709125

Name(s): ADAM WEST

Status: Prospect

Regions: British Columbia, Vancouver Island

NTS Map: 092L08E (NAD 83) Latitude: 50 17 34 N

Longitude: 126 03 50 W Elevation: 670 Metres

Location Accuracy: Within 500M

Comments: Location from Assessment Report 14284, is 1.6 kilometres west of Adam River, 3.0 kilometres southwest of

Commodities: Copper

Silver

Gold

MINERALS

Significant: Chalcopyrite

Bornite

Copper

Chalcocite

Alteration: Chlorite Mineralization Age: Unknown

DEPOSIT

Character: Stratabound Classification: Replacement Disseminated Epigenetic

Type: [Volcanic redbed Cu.]

Shape: Tabular

Dimension: 0002 x 0000 x 0000 metres

Strike/Dip:

Trend/Plunge:

HOST ROCK

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Karmutsen	

Isotpic Age: 230 Ma

Dating Method: Fossil

Material Dated: Gymnotropite ammonites

Lithology: Amygdaloidal Lava

Limestone Volcanic Rock

Host Rock Comments: Ammonites from Hisnit Island (Geological Survey of Canada Paper 74-8).

GEOLOGICAL SETTING

Tectonic Belt: Insular Terrane: Wrangell Physiographic Area: Vancouver Island Ranges

Metamorphic Type: Regional

Relationship:

Grade: Greenschist

INVENTORY

(Reserves/Resources not compliant with National

Instrument 43-101 unless specified in comments)

Ore Zone: DRILLHOLE Category: Assay/analysis Report On: N Year: 1985

Sample Type: Drill Core

Commodity Grade Silver 0.02 g/t 1.40 g/t Gold 0.570 % Copper

Comments: Sample 18705, taken from old drill zone.

Reference: Assessment Report 14284.

CAPSULE GEOLOGY

Field Check: N

Field Check: N

The area is underlain by Upper Triassic Vancouver Group rocks comprised of a thick sequence of tholeittic basalts of the Karmutsen Formation and overlying carbonates of the Quatsino Formation. The Vancouver Group rocks are intruded by granodiorite of the Jurassic Island Intrusions

The Adam West occurrence includes an area where six diamond-drill holes reportedly intersected copper mineralization (Assessment Report 14284). Examination of the drill core indicates that chalco- pyrite and bornite with minor chalcocite and native copper occur in volcanic rocks immediately below an interbedded limestone lens within the Karmutsen volcanics.

The copper minerals are found replacing amygdules in the amyg- daloidal lavas as well as along dry, tight fractures. A sample taken from old drill core assayed 0.5729 per cent copper, 1.4 grams per tonne silver and 0.016 grams per tonne gold (Sample 18705, Assessment Report 14284). Drilling in 1972 returned assays that included 0.84 per cent copper over 23.5 metres (GCNL # 95, 1973).

BIBLIOGRAPHY

EMPR ASS RPT *14284 EMPR EXPL 1985-C233 GSC MAP 4-1974 GSC OF 9; 170; 463 GSC P 69-1A; 70-1A; 72-44; *74-8; 79-30 GCNL # 95, 1973 Carson, D.J.T., (1968): Metallogenic Study of Vancouver Island with emphasis on the Relationship of Plutonic Rocks to Mineral Deposits, Ph.D. Thesis, Carleton University, Ottawa

<u>Date Coded:</u> 1988/12/02 <u>Date Revised:</u> 1989/05/15 Coded By: WV Revised By: LLD

http://www.em.gov.bc.ca/cf/minfile/search/search.cfm?mode=masterreport&minfilno=092... 09/04/2005

Run Date: 2005/Apr/09 Run Time: 04:41 PM

MINFILE / www MASTER REPORT GEOLOGICAL SURVEY BRANCH MINISTRY OF ENERGY & MINES

MINFILE Number: 092L 165

National Mineral Inventory: 092L8 Cul

Copper

Mining Division: Nanaimo

<u>UTM Zone:</u> 09 (NAD 83)

Northing: 5573887

Easting: 709954

Name(s): BOYES 3, BOYES CREEK, TAMMY

Status: Prospect

Regions: British Columbia, Vancouver Island

NTS Map: 092L08E (NAD 83)

Latitude: 50 16 47 N Longitude: 126 03 11 W

Elevation: 5618 Metres

Location Accuracy: Within 500M

Comments: Location is the centre of 14 trenches along Boyes Creek (unofficial name), located 0.8 kilometres west of

Adam River on L.465 (Assessment Report 1993).

Commodities: Copper

MINERALS

Significant: Chalcopyrite

Alteration: Epidote

Alteration Type: Propylitic Mineralization Age: Unknown

DEPOSIT

Character: Stockwork

Massive Hydrothermal

Bornite

Chlorite

Disseminated

Chalcocite

Classification: Epigenetic Shape: Tabular

Modifier: Faulted

Dimension: 0305 x 0000 x 0000 metres

Strike/Dip: 280 80S

Trend/Plunge:

Comments: Width of mineralization is 0.3 to 4.6 metres. Fault zone strikes 280 degrees.

HOST ROCK

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Karmutsen	
Jurassic			Island Plutonic Suite

Isotpic Age: 155 +/- 6 Ma Dating Method: Potassium/Argon

Material Dated: Biotite

Lithology: Amygdaloidal Massive Basalt

Limestone

Host Rock Comments: Karmutsen ammonites from Hisnit Island. Intrusion biotite from Adam River (Geological Survey of Canada

Paper 74-8).

GEOLOGICAL SETTING

Tectonic Belt: Insular Terrane: Wrangell

Plutonic Rocks

Physiographic Area: Vancouver Island Ranges

Metamorphic Type: Regional

Relationship:

Grade: Greenschist

INVENTORY

(Reserves/Resources not compliant with National

Instrument 43-101 unless specified in comments)

Ore Zone: TRENCH Category: Assay/analysis Report On: N Year: 1969

Sample Type:

Channel

Commodity Grade 3.900 %

Comments: Weighted average of 7 channel samples over 116 metre strike length (average width 1.2 metres).

Reference: Assessment Report 1993.

CAPSULE GEOLOGY

The area, on the east side of Vancouver Island, is underlain by gently to moderately dipping massive and amygdaloidal basalts of the Upper Triassic Karmutsen Formation of the Vancouver Group. Inter- bedded with the basalts are minor limestone strata, 15 metres thick.

Adam River defines the contact between sediments and volcanic rocks to the west and Jurassic Island Plutonic Suite to the east.

The occurrence (in amygdaloidal basalt directly below a thin limestone bed contact) lies on the Boyes 3 claim and is associated with a 280 degree striking, steeply south dipping fault structure in which a sheeted or braided zone of stringers, lenses and disseminations of chalcopyrite and bornite, minor chalcocite and native copper occurs. Fault-offsets and weak chlorite-epidote alteration occur. The occurrence was explored by 13 trenches over a strike length of 305 metres, ranging from 0.3 to 4.6 metres in width. On the western-most section, 7 channel samples over 116 metres averaged 3.9 per cent copper over an average width of 1.2 metres. Associated silver and gold values are low, with maximum values of 18.66 grams per tonne and 0.62 grams per tonne respectively, but averaging much lower (Assessment Report 1993).

BIBLIOGRAPHY

EMPR AR 1967-72; 1968-100
EMPR ASS RPT *1993, 3235, 3403
EMPR GEM 1969-210; 1971-315,320
GSC MAP 4-1974; 1552A
GSC OF 9; 170; 463
GSC P 69-1A; 70-1A; 71-1A; 72-44; 74-8
Carson, D.J.T., (1968): Metallogenic Study of Vancouver Island with emphasis on the Relationship of Plutonic Rocks to Mineral Deposits, Ph.D. Thesis, Carleton University, Ottawa

<u>Date Coded:</u> 1985/07/24 <u>Date Revised:</u> 1988/12/02 Coded By: GSB Revised By: WV Field Check: N Field Check: N Run Date: 2005/Apr/09 Run Time: 04:43 PM

MINFILE / www MASTER REPORT GEOLOGICAL SURVEY BRANCH MINISTRY OF ENERGY & MINES

MINFILE Number: 092L 166

National Mineral Inventory: 092L8 Cu2

Name(s): GEORGE 5, SOUTH CREEK, TAMMY

Status: Showing

Mining Division: Nanaimo

UTM Zone: 09 (NAD 83)

Northing: 5573290

Easting: 710493

Regions: British Columbia, Vancouver Island

NTS Map: 092L08E (NAD 83) Latitude:

50 16 27 N

Longitude: 126 02 45 W Elevation: 366 Metres

Location Accuracy: Within 500M

Comments: Location of mineralization from Assessment Report 1993, is 200 metres west of Adam River, 4.5 kilometres

south of Keta Lake.

Commodities: Copper

Gold

Epidote

Silver

MINERALS

Significant: Chalcopyrite

Associated: Calcite

Pyrite

Mineralization Age: Unknown

DEPOSIT

Character: Breccia Classification: Epigenetic Disseminated Hydrothermal

Shape: Regular

<u>Dimension:</u> 0003 x 0000 x 0000 metres

Strike/Dip:

Trend/Plunge:

Comments: Mineralization occurs over 3.6 metres.

HOST ROCK

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Karmutsen	

Isotpic Age: 230 Ma

Dating Method: Fossil

Material Dated: Gymnotropite ammonites

Lithology: Basalt

Calcite Epidote Breccia

Host Rock Comments: Ammonites from Hisnit Island (Geological Survey of Canada, Paper 74-8).

GEOLOGICAL SETTING

Tectonic Belt: Insular Terrane: Wrangell Physiographic Area: Vancouver Island Ranges

Metamorphic Type: Regional

Relationship:

Grade: Greenschist

INVENTORY

(Reserves/Resources not compliant with National

Instrument 43-101 unless specified in comments)

Ore Zone: SAMPLE Category: Assay/analysis Report On: N Year: 1969

Sample Type: Chip

Commodity Grade Silver 6.20 g/t 0.60 g/t Gold 0.900 % Copper

Comments: Sample over 1.5 metres.

Reference: Assessment Report 1993, page 11.

CAPSULE GEOLOGY

At the George 5 occurrence (termed South Creek in Assessment Report 1993, page 10) chalcopyrite with pyrite is present over 3.6 metres.

This mineralization occurs in a pod of calcite-epidote breccia in basalt of the Upper Triassic Vancouver Group, Karmutsen Formation, 1 kilometre west of Jurassic Island Intrusions grano- diorite. A sample over 1.5 metres assayed 0.9 per cent copper, 0.6 grams per tonne gold and 6.2 grams per tonne silver (Assessment Report 1993, page 11).

BIBLIOGRAPHY

EMPR AR 1969-210 EMPR ASS RPT *1993, 3235, 3306 EMPR GEM 1971-315,320 GSC MAP 4-1974; 1552A GSC OF 9; 170; 463 GSC P 69-1A; 70-1A; 71-1A; 72-44; 74-8

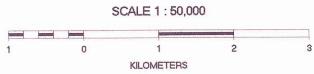
Date Coded: 1985/07/24 Date Revised: 1988/12/02

Coded By: GSB Revised By: WV

Field Check: N

Rusk







Run Date: 2005/Apr/09 Run Time: 04:42 PM

MINFILE / www MASTER REPORT

GEOLOGICAL SURVEY BRANCH MINISTRY OF ENERGY & MINES

MINFILE Number: 092L 224

National Mineral Inventory:

Name(s): ELOISE

Status: Showing

Regions: British Columbia, Vancouver Island

NTS Map: 092L01E (NAD 83) 50 13 54 N Latitude:

Longitude: 126 02 07 W Elevation: 716 Metres Location Accuracy: Within 500M

Comments: Centre of pits along Lois Creek (from Assessment Report 11730) is 3.5 kilometres south of Tlowils Lake, 1.5

kilometre east of Adam River, 18.0 kilometres southwest of Kelsey Bay.

Commodities: Copper

MINERALS

Significant: Chalcopyrite

Bornite **Ouartz**

Pyrite Calcite Hematite

Alteration: Epidote Alteration Type: Propylitic

Mineralization Age: Unknown

DEPOSIT

Character: Stockwork

Disseminated

Classification: Porphyry

Dimension: 0900 x 0001 x 0000 metres

Strike/Dip: 110 30E

Trend/Plunge:

Mining Division: Nanaimo

UTM Zone: 09 (NAD 83)

Northing: 5568595

Easting: 711433

Comments: Attitude of mineralized fractures. Average width of mineralization is between 1 and 2 metres.

HOST ROCK

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Karmutsen	

Isotpic Age: 230 Ma

Dating Method: Fossil

Material Dated: Gymnotropite ammonite

Lithology: Amygdaloidal Basalt

Limestone

Host Rock Comments: Ammonites from Hisnit Island.

GEOLOGICAL SETTING

Tectonic Belt: Insular

Terrane: Wrangell

Physiographic Area: Vancouver Island Ranges

INVENTORY

(Reserves/Resources not compliant with Nationa

Instrument 43-101 unless specified in comments)

Ore Zone: SAMPLE Category: Assay/analysis Report On: N Year: 1969

Sample Type: Chip

Commodity Grade 2 000 %

Comments: Range from 0.3 to 2.0 per cent copper along a 900 metre strike length.

Reference: Assessment Report 10479.

CAPSULE GEOLOGY

The area is underlain by Upper Triassic Vancouver Group rocks comprised of a thick sequence of tholeitic basalts of the Karmutsen Formation and overlying carbonates of the Quatsino Formation.

Mineralization at the Eloise occurrence consists of chalcopyrite, bornite, hematite and pyrite as fine disseminations or localized in small fractures, veinlets or lenses in amygdaloidal basalt of the Karmutsen Formation. The attitudes of the mineralized fractures vary. One set, striking 110 degrees and dipping 30 degrees east, is thought to be parallel to flow contacts in the basalt. A minor intercalated limestone band, averaging 1.0 metre in thickness, reportedly controls localized mineralization (Assessment Report 11730).

In 1969, fifteen test pits were dug along a 900 metre strike length, across mineralization which averaged between 1 and 2 metres. Assay results ranged from 0.3 to 2.0 per cent copper (Assessment Report 10479).

BIBLIOGRAPHY

EMPR ASS RPT *10479, 11730 EMPR EXPL 1981-304; 1983-330 EMPR GEM 1969-210; 1970-279 GSC MAP *4-1974 GSC OF 9; 170; 463

GSC P 69-1A; 70-1A; 72-44; *74-8; 79-30

Carson, D.J.T., (1968): Metallogenic Study of Vancouver Island with emphasis on the Relationship of Plutonic Rocks to Mineral Deposits,

Ph.D. Thesis, Carleton University, Ottawa

Date Coded: 1988/12/06 Date Revised: 1989/05/15

Coded By: WV Revised By: LLD Field Check: N Field Check: N

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