Location/Identification

MINFILE Number: 092E 015
National Mineral Inventory Number: 092E15 Fe1
Name(s): **ROB ROY**
PRINCE CHARLIE, FIDO, RUSSELL, TAH 15,18-19,22

Status: Prospect
Mining Division: Alberni
Electoral District: North Island
Regions: British Columbia
Resource District: Campbell River Natural Resource District
BCGS Map: 092E088
NTS Map: 092E15E
UTM Zone: 09 (NAD 83)
Latitude: 49 48 11 N
Northing: 5519693
Longitude: 126 30 59 W
Easting: 678710
Elevation: 200 metres
Location Accuracy: Within 500M
Comments: Centre of the Russell 6 claim, located 1.8 kilometres northwest of Head Bay, west of Sucwoa River and south of the Glengarry occurrence (092E 001).

Mineral Occurrence

Commodities: Iron, Magnetite

Minerals
Significant: Magnetite
Associated: Pyrite, Chalcopyrite
Associated Comments: Rare chalcopyrite and pyrite are found within pods of magnetite.
Alteration: Garnet
Alteration Comments: Garnetite.
Alteration Type: Skarn
Mineralization Age: Unknown

Deposit
Character: Podiform, Stratabound, Massive
Classification: Skarn, Epigenetic, Industrial Min.
Type: K03: Fe skarn
Shape: Tabular
Strike/Dip: 315/45W
Comments: Attitude of local bedding.

Host Rock

Dominant Host Rock: Sedimentary

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Quatsino	------
Upper Triassic	Vancouver	Parson Bay	------
Jurassic	------	------	Island Plutonic Suite
Eocene	------	------	Catface Intrusions

Isotopic Age	Dating Method	Material Dated
225 Ma	Fossil	225 Ma
215 Ma	Fossil	215 Ma
174 +/- 10 Ma	Rubidium/Strontium	Biotite
38 +/- 14 Ma	Potassium/Argon	Biotite

Lithology: Altered Limestone, Magnetite Garnet Skarn, Garnetite, Granodiorite, Porphyritic Greenstone Dike, Feldspar Porphyry Dike

Comments: Fossil and biotite material age dates from Geological Survey of Canada, Paper 80-16.

Geological Setting

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

Metamorphic Type: Contact
Grade: Zeolite, Hornfels
Comments: Contact metamorphism overprints regional grade.

Inventory

Ore Zone: ROB ROY
Year: 1916
Category: Indicated
Report On: Y
Quantity: 45,359 tonnes
NI 43-101: N

Commodity	Grade
Iron	56.8000 per cent

Comments: The grade reported is similar to that of the Glengarry occurrence (092E 001). Estimate of probable ore.
Reference: Minister of Mines Annual Report 1916, page 294.

Capsule Geology

The Rob Roy occurrence is located southwest of the Sucwoa River, approximately 1.5 kilometres west of the river mouth on Head Bay.

The area is underlain by northwest striking Upper Triassic Vancouver Group, Quatsino Formation limestone that dips moderately to the southwest. The limestone is intruded by a granodiorite stock of the Early to Middle Jurassic Island Plutonic Suite. The limestone has been recrystallized, skarned and in places, altered to garnetite. Many cross-cutting porphyritic greenstone dikes predate the skarn alteration. Other feldspar porphyry dikes are related to the Eocene Catface Intrusions.

Magnetite mineralization is contained within garnet skarn with rare associated chalcopyrite and pyrite. Magnetite is often, but not always, free of garnet. Magnetite pods are parallel to bedding and roughly follow the margin of the intrusive contact in a northwest direction.

Brewer reports that the grade is similar to the Glengarry (092E 001) although no assays were done and estimates that about 45,360 tonnes of probable ore grading 56.8 per cent iron are present (Minister of Mines Annual Report 1916, page 294).

During 1979 through 1981, Pan Ocean Oil completed programs of geological mapping and geochemical sampling on the area as the Tah 1-19 claims. In 1983, Aberford Resources continued on the previous mapping and sampling programs. In 1984, Homestake Canada completed a program of geological mapping and rock sampling. In 1987, Great Keppel Resources completed a program of geological mapping, geochemical sampling, hand trenching and a ground magnetic survey. In 1988, Centaur Resources completed a program of geological mapping and geochemical sampling. In 2007 and 2008, Silverlake Capital completed programs of geochemical sampling and geological mapping on the area. During 2009 through 2013, Homegold Resources completed programs of prospecting, historical literature reviews and air photo interpretations on the area as part of the Head Bay property.

In 2012, Canadian Dehua International Mines Group Inc. completed air photo interpretation on their Head Bay Property, covering the Glengarry and Elaine past producers, the Rob Roy, Head Bay and Vivian prospects, and the Mohawk, Middle Quarry, Upper Quarry and North Tsowwin showings. In 2014 Pioneer Exploration Corp. on behalf of Canadian Dehua completed GPS grid-based geological mapping, soil and stream moss mat geochemistry and ground magnetics covering the Glengarry past producer, and the Rob Roy and Head Bay prospects; and limited prospecting and stream moss mat geochemistry near the Vivian prospect.

Bibliography

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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
Sangster, D.F., (1964): The Contact Metasomatic Magnetite Deposits of Southwestern British Columbia, Ph.D. Thesis, University of British Columbia
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Lennan, W.B. (2007-11-03): Technical Summary Report on the Head Bay Property
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Date Coded:	1985/07/24	**Coded By:**	BC Geological Survey (BCGS)	**Field Check:**	N
Date Revised:	2022/06/24	**Revised By:**	Del Ferguson (DF)	**Field Check:**	N