

Location/Identification

MINFILE Number:	092L 299	National Mineral Inventory Number:	092L2 Au35
Name(s):	<u>ESPERANZA</u> WHITEDOME, VALENTINE		
Status:	Showing	Mining Division:	Alberni
		Electoral District:	North Island
Regions:	British Columbia, Vancouver Island	Forest District:	Campbell River Forest District
BCGS Map:	092L016		
NTS Map:	092L02W	UTM Zone:	09 (NAD 83)
Latitude:	50 07 04 N	Northing:	5553868
Longitude:	126 53 06 W	Easting:	651199
Elevation:	457 metres		
Location Accuracy:	Within 500M		
Comments:	Location is the Number One Trench of Assessment Report 8612, Figure 3. Located 13 kilometres north of Zeballos, 2 kilometres south of Artlish River.		

Mineral Occurrence

Commodities:	Gold, Silver		
Minerals	Significant:	Pyrite, Pyrrhotite, Magnetite, Arsenopyrite	
	Significant Comments:	Silver and gold mineralogy not known.	
	Associated:	Quartz, Actinolite	
	Alteration:	Actinolite	
	Alteration Type:	Skarn	
	Mineralization Age:	Unknown	
Deposit	Character:	Stratabound, Massive	
	Classification:	Skarn	
	Type:	K04: Au skarn	
	Shape:	Tabular	
	Dimension:	170x30x0 metres	
	Comments:	Local stratigraphy strikes east.	

Host Rock

Dominant Host Rock:	Sedimentary		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Parson Bay	-----
Upper Triassic	Vancouver	Quatsino	-----
Jurassic	-----	-----	Island Plutonic Suite
Isotopic Age	Dating Method	Material Dated	
215 Ma	Fossil	215 Ma	
225 Ma	Fossil	225 Ma	
148 +/- 8 Ma	Potassium/Argon	Phlogopite	
Lithology:	Siltstone, Calcareous Rock, Actinolite Rock, Granodiorite		
Comments:	Halobia mollusks from Beaver Cove. Juvavite mollusks from Alice Lake. Phlogopite from Zeballos intrusion (GSC Paper 74-8).		

Geological Setting

Tectonic Belt: Insular
Terrane: Wrangell
Physiographic Area: Vancouver Island Ranges
Metamorphic Type: Contact
Grade: Amphibolite

Inventory

Ore Zone: TRENCH
Category: Assay/analysis
Year: 1979
Report On: N
NI 43-101: N
Sample Type: Chip

Commodity	Grade
Gold	5.9000 grams per tonne

Comments: Weighted average over 1.0 metre.
Reference: Assessment Report 8612, page 8.

Capsule Geology

The Esperanza occurrence lies within a broad east striking sequence of interbedded sediments and volcanics of the Lower Jurassic Bonanza Group and Upper Triassic Parson Bay and Quatsino formations of the Vancouver Group. This assemblage lies on the northern flank of the extensive granodiorite Zeballos Intrusion, belonging to the Jurassic Island Plutonic Suite.

The occurrence consists of pyritic beds hosted by siltstone that is intercalated with calcareous beds that locally swell into actino- litic zones. The host rock is believed to represent the Parson Bay- Quatsino transition zone.

The pyritic zone contains pyrrhotite, magnetite and some associated massive arsenopyrite. Chip samples over a width of 30 metres and a strike length of 170 metres returned significant gold values, the highest of which was 20.73 grams per tonne over one metre (Assessment Report 8612, page 8). The Number One Trench (Figure 3, Assessment Report 8612) gave a weighted average of 5.9 grams per tonne gold over 1.0 metre.

The occurrence may coincide with A25 (092L 302).

Bibliography

EMPR ASS RPT 8612, 12327, 14508
EMPR EXPL 1980-268; 1984-240; 1986-C276
GSC EC GEOL 1-1947
GSC MAP 4-1974; 255A; 1028A
GSC MEM 272
GSC OF 9; 170; 463
GSC P 38-5; 69-1A; 70-1A; 72-44; 74-8; 79-30
GSC SUM RPT 1929A
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: 1989/02/03
Date Revised: 2007/08/17
Coded By: Wim S. Vanderpoll(WV)
Revised By: Sarah Meredith-Jones(SMJ)
Field Check: N
Field Check: N