Location/Identification

MINFILE Number: 092L 009
National Mineral Inventory Number: 092L2 Au2
Name(s): **PRIDENT**
GOLDEN PEAK 4 (L.1032), PRIVATEER

Status: Past Producer
Mining Method Underground
Regions: British Columbia, Vancouver Island
BCGS Map: 092L006
NTS Map: 092L02W
Latitude: 50 01 34 N
Longitude: 126 48 25 W
Elevation: 454 metres
Location Accuracy: Within 500M

Mining Division: Alberni
Electoral District: North Island
Forest District: Campbell River Forest District

UTM Zone: 09 (NAD 83)
Northing: 5543838
Easting: 657078

Comments: Location of adit in far west corner of Lot 1032 is 430 metres east of Spud Creek, 1.1 kilometres southeast of Zeballos River, 5.5 kilometres northeast of Zeballos. See also Privateer (092L 008).

Mineral Occurrence

Commodities: Gold, Silver, Zinc, Lead, Copper

Minerals
Significant: Gold, Pyrite, Arsenopyrite, Sphalerite, Galena
Significant Comments: Quartz vein carry free gold, lenses of sulphides. Copper, silver mineralogy not known.
Associated: Quartz, Calcite

Mineralization Age: Unknown

Deposit
Character: Vein
Classification: Mesothermal, Epithermal, Epigenetic
Type: I01: Au-quartz veins, I06: Cu+/-Ag quartz veins
Shape: Tabular

Host Rock

Dominant Host Rock: Plutonic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Eocene	------	------	Catface Intrusions

Isotopic Age	Dating Method	Material Dated
38 +/- 14 Ma	Potassium/Argon	Biotite

Lithology: Quartz Diorite, Feldspar Porphyry Dike
Comments: Age date from Zeballos (Geological Survey of Canada Paper 74-8).

Geological Setting

Tectonic Belt: Insular
Physiographic Area: Vancouver Island Ranges
Terrane: Wrangell, Plutonic Rocks

Inventory

Ore Zone: PRIDENT
Year: 1988
Category: Indicated
Report On: Y
Quantity: 122,470 tonnes
NI 43-101: N

Commodity	Grade
Gold	17.0000 grams per tonne

Comments: Indicated and inferred reserves situated both on the Prident and Privateer (092L 008) properties.

Reference: Canadian Mines Handbook 1988-89, page 333.

Summary Production

		Metric	Imperial
Mined:		43 tonnes	47 tons
Milled:		0 tonnes	0 tons
Recovery	Gold	5,536 grams	178 ounces
	Silver	2,395 grams	77 ounces
	Lead	306 kilograms	675 pounds
	Copper	30 kilograms	66 pounds

Capsule Geology

The Prident mine lies in the Zeballos gold camp, an area under- lain by a Lower Jurassic Bonanza Group Island arc sequence of basaltic to rhyolitic volcanic rocks. Conformably underlying the Bonanza rocks are limestones and limy clastics of the Quatsino and Parson Bay formations, and the tholeiitic basalts of the Karmutsen Formation, all belonging to the Upper Triassic Vancouver Group. Dioritic to granodioritic Jurassic plutons of the Zeballos intrusion phase of the Island Intrusions have intruded all older rocks. The Eocene Zeballos stock, a quartz diorite phase of the Catface Intrusions, is spatially related to the areas gold-quartz veins. Bedded rocks are predominantly northwest striking, southwest dipping, and anticlinally folded about a northwest axis.

The three principal Prident veins are hosted by the Zeballos pluton, a quartz diorite stock related to the Eocene Catface Intrusions. The quartz diorite stock is cut by several feldspar porphyry dykes. A large inclusion of granitized volcanic rock, possibly of the Bonanza Group was encountered on the 400 level of the mine for a distance of 60 metres. The three veins, dipping verti- cally and striking 040, 072 and 100 degrees respectively, follow shear zones and range up to 15 centimetres in thickness, although wider sections are present. Quartz gangue is ribboned with fine- grained pyrite and arsenopyrite. Locally, sphalerite, galena and calcite are present.

Three narrow short veins (3W, 4WA and 4W) were encountered and drifted on at the 400 and 750 levels.

Mine production of 43 tonnes in 1939 averaged 128.7 grams per tonne gold, 55.7 grams per tonne silver, 0.07 per cent copper and 0.7 per cent lead. Subsequent production is widespread with the Privateer mine (092L 008) with which the Prident Mines was connected at the 600 level. Current reserve calculations are similarly included with the Privateer mine. Indicated and inferred reserves situated both on the Prident and Privateer properties total 122,470 tonnes grading 17 grams per tonne gold (Canadian Mines Handbook 1988-89, page 333).

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Date Coded:	1985/07/24	**Coded By:**	BC Geological Survey (BCGS)	**Field Check:**	N
Date Revised:	2008/01/31	**Revised By:**	Laura deGroot(LDG)	**Field Check:**	N