

Current Exploration Results

1987-1988

- i) Geology: Mapping has been completed at a 1:2500 scale. The garnet-rich body has dimensions of \approx 800 m x 300 m. Outcrop exposure is excellent as garnet is resistant to weathering. The granodiorite contact occurs to the east of the garnet body. Patches of meta-diorite which have in some cases been partly replaced by garnet, occur locally and as a significant zone within the garnet body.
- ii) Geochemistry: --
- iii) Geophysics: A magnetometer survey was completed on the property to assist with geological mapping and trace some gossan zones which occur in the Peak area.
- iv) Sampling : Petrographic analyses of 1000 surface samples and 500 drill samples were completed to analyze for garnet content. In addition, 400 drill samples in the west zone were given whole rock petrographic tests.

Reserves:	Geological, possible,	100,000,000	possible
	probable and/or proven	39,000,000	proven
	Number of zones	3	
	Number of sample points	1500	
	Average grade	\approx 80% (garnet)	
	Average thickness	>500 ft.	
	Cut-off grade	N/A	

Costs :	Recent exploration costs, i.e. (relating to above)	\$400,000
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Projected exploration costs of
program to development (if any) --

Projected development costs
given positive economics \$2 million

Projected operating costs
given positive economics \$30/ton
mining and processing

1990 "SNAPSHOT" REVIEW FORM

Feb. '90

Property/Project

Authors

Name : CRYSTAL PEAK GARNET

NTS : 82E/5W

Helen C. Grond

Claims : 24 Units

Joe H. Montgomery

Acreage: 250

Commodities: Andradite, Garnet

Agreements

Polestar owns claims outright (100%).

History

Past Exploration Techniques	By Whom	Amount	Type	Cost
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Past Development (if any)	By Whom	Amount	Type	Cost
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Past Production (if any)	By Whom	Tonnage(s)	Method	Grade
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Reasons for shut-down

Geology

Regional: The Mt. Riordan skarn deposit is the most easterly of a series of skarns which includes the presently operating Nickel Plate Mine and the old French and Good Hope Mines. Early Jurassic granitic plutons have intruded late Triassic Nicola Group sediments.

Local : The replacement of limestone to garnet is almost complete. No limestone is found on the property and none of the original sedimentary structures have been preserved. Diopside is a more common accessory. Silicate, quartz, epidote, actinolite and calcite also occur.

Alteration/Ore Forming Minerals: Garnet occurs either as massive garnetite or coarsely crystalline, often showing growth zonations. Brown and green are the most common colours, although buff, black and red-brown varieties have been noted.