1990 "SNAPSHOT" REVIEW FORM

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

Ву

Whom Amount

Type

Cost

Past Development (if any)

Вv

Whom

Amount

Type

Cost

Past Production

(if any)

Ву Whom

Tonnage(s)

Method

Grade

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.

: The replacement of limestone to garnet is almost complete. 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.

1987-1988

- i) Geology: Mapping has been completed at a 1:2500 scale. The garnet-rich body has dimensions of × 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 metadiorite 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 ≈80% (garnet)

Average thickness >500 ft.
Cut-off grade N/A

Costs : Recent exploration costs,

i.e. (relating to above) \$400,000

Projected exploration costs of program to development (if any) --

Projected development costs

given positive economics \$2 million

Projected operating costs given positive economics

ven positive economics \$30/ton mining and processing