

## NAME OF PROPERTY SILVER BASIN, WESTERN CROSS

OBJECT LOCATED - Western Cross claim (Lot 1978).

UNCERTAINTY IN METRES 300. Lat. 50°41'20" Long. 116°44'40"

Mining Division Golden &amp; Slocan District Kootenay

County Township or Parish

Lot Concession or Range

Sec Tp. R.

## OWNER OR OPERATOR

## DESCRIPTION OF DEPOSIT

Proterozoic carbonate rock and calcareous argillite of the Upper Horsethief Creek Formation outcrop on the property. These rocks are folded into an anticline with axis striking N30°W and dipping steeply west. Sphalerite and galena occur as replacements in limestone and limestone breccia. Pyrite and chalcopyrite occur as disseminations and associated with a set of quartz fractures which almost parallel the axis of the anticline.

## HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at approximately 7,200 feet elevation in Bugaboo Pass, at the head of Bugaboo Creek some 33 miles northwest of Invermere.

The No. 21 (Lot 1977) and Western Cross (Lot 1978) claims were staked by T. Mercier in 1898 and bonded to The Golden & Fort Steele Development Company, Limited. Exploration work was done in open cuts and two short adits. The claims were Crown-granted to the above in 1900.

A new adit was apparently driven on the property in the late 1930's. In 1952 a one ton shipment of ore was reported under the names N. Robert and R.L. Kirk of Golden. By a November 1968 option agreement W. Wolfenden and W. Jones acquired the Crown-grants from Y.G. Mercier. This option to purchase was transferred to Purcell Development Co Ltd by an agreement dated August 1969. Messrs. Wolfenden & Jones, and L. Wilder transferred their interest in adjacent ground, held as the Silver Basin claims, to the company by agreements dated June 1969 and April 1971. Purcell Development held a 70% interest under the various agreements. The remaining interest was held by Frontier Sulphur Company Inc, of Tulsa.

Purcell Development apparently restaked the located ground in 1969 as the Silver 1-22 claims and again in 1973 as the Silvertip 1-29 claims. Work during 1969 included geological mapping, sampling, an electromagnetic survey, and 1,000 feet of diamond drilling in 9 holes. During 1970 a magnetometer survey over 2 line-miles, trenching, and 2,000 feet of diamond drilling in 6 holes was carried out. Stripping was reported in 1971 and 2,200 feet of diamond drilling in 8 holes in 1973.

Reserves are reported as 13,426 tonnes at 2.25 ozs/t Ag, 4.73% Pb, 3.34% Zn, 0.16% Cu (BCDM RI).

## HISTORY OF PRODUCTION

In 1952, one ton of ore was shipped from this property. From this ore 5 ounces of silver, 212 lbs of lead, and 216 pounds of zinc were recovered.

## REFERENCES

- Reports of Minister of Mines, British Columbia:  
1898, p. 1045; 1900, p. 980; 1952, p. 43. (1936-E 42 indicates special report available from Minister of Mines).
- Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 342; 1970, p. 468; 1971, p. 428; 1972, p. 75; 1973, p. 93 + .
- Angus G. MacKenzie Mining Consultants Ltd., Summary of Report on Silver Basin Property, Sept. 1971 - in Purcell Development Co. Ltd. Prospectus, July 1972.
- Mineral Policy Sector; Corporation Files: "Purcell Development Co. Ltd."

## MAP REFERENCES

Map 1326 A, Lardeau, (Geol.), Sc. 1:250,000 - accomp. Memoir 369, Geol. Surv. of Canada, 1972.

#Map 82 K/10 E, Howser Creek, (Topo.), Sc. 1:50,000.

## REMARKS

Comp./Rev. By	DMacR						
Date	6-79						