

## NAME OF PROPERTY

BOW (DEMON, COLTI)

## LOCATION -Symbol on Map 82 N (MI)

Lot. 51°11'40" Long. 116°20'40"

Uncertainty in meters - 250.

Mining Division Golden

District Kootenay

County

Township or Parish

Lot

Concession or Range

Sec.

Tp.

R.

## OWNER OR OPERATOR AND ADDRESS

## DESCRIPTION OF DEPOSIT

This deposit is underlain by rocks of the Ice River Intrusive Igneous Complex, mainly of a dark jacuprinangite type with a rim of intermediate ijoliteurtite. The contact of these two rock types consists of a zone of intermingling of each, further obscured by streaks and masses of syenite phases of the complex. Irregular dykes and lenses of pegmatite occur in several places. The pegmatite is composed of calcite, biotite, pyroxene, magnetite-ilmenite and schorlomite with minor amounts of pyrite, pyrrhotite, nepheline and other accessories.

In some exposures the rock is about half pyroxene and the remainder is titanite and magnetite in equal proportions. In other outcrops, heavy concentrations of magnetite occur in lenses. Specimens of knopite, a cerium-bearing perovskite have been found in one of the pegmatite dykes. Sodalite occurs in short, irregular veins that cut light-coloured igneous rocks.

Assays range up to 10.6% Ti, 15.7% Fe, 0.077% ThO<sub>2</sub>, and 0.08% Nb. Thorium assays were determined by chemical analyses and niobium by spectrographic analyses. Scintillometer counts ranged from three to six times background but radiometric assays indicated that the uranium content was less than 0.01%. Spectroscopic analyses indicated traces of rare earths, chiefly lanthanum and ytterbium.

Iron, uranium, thorium, niobium,  
rare earths.

Associated minerals or products of value

## HISTORY OF EXPLORATION AND DEVELOPMENT

This deposit is situated at elevations above 7,000 feet near the headwaters of Moose Creek, a tributary of the Beaverfoot River, about sixteen miles southeast of Field.

The deposit was discovered around 1924 by Messrs. Pedley and Smith. In 1929 it consisted of the Porcupine, Grizzly and Goat Groups, totalling seventeen claims owned by United Resources Development Company Limited.

In June 1953, W.H. Patmore and R.P. Walker restaked the ground as the Demon Nos. 1 to 7 claims, between Sharp and Helmet Mountains and the Colti Nos. 1 to 4 claims between Zinc Mountain and Buttress Peak. Scintillometer work and sampling was done.

In July 1971, Albany Oil & Gas Limited acquired an option from H. MacFarland and R. Oughton for the Bow Nos. 1 to 49 claims (record numbers 16066 to 16144, inclusive). Work included geological mapping and sampling but did not indicate any body of commercial ore.

## HISTORY OF PRODUCTION

## REFERENCES

- McCammon, W.J.; Moose Creek; Report of Minister of Mines, British Columbia, 1954, pp. 150-151.
- Geology, Exploration and Mining; British Columbia Dept. of Mines: 1971, p. 443.
- Reports of Minister of Mines, British Columbia; 1925, p. 220; 1926, p. 238; 1929, p. 291; 1954, pp. 150-151.
- Ellsworth, H.V., and Walker, J.F.; Knopite and Magnetic Occurrences, Moose Creek, Southwestern British Columbia; Summary Report, 1925, Part A, pp. 230 to 232; Geol. Surv. of Canada.
- Mineral Resources Branch; Corporation Files: "Albany Oil & Gas Limited".

*GSC. Economic Geology Report #29, 1974 p.72.*

## MAP REFERENCES

- Map 142 A, Field, (Geol. and Topo.), Sc. 1":2 miles - Geol. Surv. of Canada, 1915.
- Map 82 N (MI), Golden, Preliminary Mineral Inventory Map, Sc. 1:250,000, B.C. Dept. of Mines and Petroleum Resources, 1965.
- Map 82 N/1 W, Mount Goodsir, (Topo.), Sc. 1:50,000.

## REMARKS

DEC 1973

*BCI 82N-27*