

NAME OF PROPERTY

MABEL

OBJECT LOCATED—shaft on Mabel claim (Lot 609).

UNCERTAINTY IN METERS 150. Lat. 49°01'12" Long. 118°37'45"

Mining Division Greenwood District Similkameen

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The McCarren Creek, Goosmus Creek area is underlain by a southeasterly striking 1-mile-wide belt of Paleozoic(?) gneiss and schist bounded both north and south by zones of Paleozoic or Early Mesozoic metavolcanic and metasedimentary beds. These rocks are cut by a wide variety of igneous intrusions, including a porphyritic quartz feldspar stock and a few large serpentine and gabbro dyke-like bodies. Also, dykes and irregular-shaped diorite intrusions are found throughout the area cutting many of the units. The youngest rocks consist of a few pulaskite and basalt dykes and a small outlier of Tertiary conglomerate. The oldest intrusives, probably Early Mesozoic age, consist of an assemblage of genetically related small stocks and hypabyssal acid intrusions mapped variously as quartz feldspar porphyry, quartz porphyry, felsite, and schistose felsite. The largest of these intrusions is a wedge-shaped quartz feldspar porphyry see Card 2

Associated minerals or products of value - Silver, copper.

HISTORY OF EXPLORATION AND DEVELOPMENT

The property is located at the 4,500 foot elevation at the head of Gidon Creek, a tributary of McCarren Creek, 5 miles south-southeast of Greenwood.

The initial work in the Mabel area consists of a number of shallow shafts and trenches opened about 1892 on small pyritiferous quartz veins and zones of pyrrhotite-bearing siliceous argillites. The Mabel (Lot 609) and Cornicopia (Lot 608) claims were Crown-granted to J. Douglas in 1894. There is no further record of development until 1937 when 6 Crown-grants centered about the old Mabel claim were owned or controlled by Dr. G.H. Worthington, of Vancouver, and associates. An inclined 100-foot-deep shaft was sunk at that time.

King Midas Mines Ltd. in 1962 consolidated many of the old Crown-grants and carried out a reconnaissance geo-chemical survey. An adit was driven approximately 400 feet to an area below the old workings. Apparently no significant mineralization was intersected in this operation.

Lexington Mines Ltd. in 1968 acquired the Mabel and adjacent Crown-grants. Work during the period 1969-1971, inclusive, included detailed geological mapping, soil and silt geochemical surveys, and magnetometer and induced potential surveys.

Aalenian Resources Ltd. in January 1974 optioned a 75 per cent interest in 23 Crown-granted claims and leases (including the City of Paris property) and 53 located claims.

Mineral Resources Branch, Department of Energy, Mines and Resources, Ottawa.

513639 *

HISTORY OF PRODUCTION

In 1937, 117 tons of ore were shipped from this property. From this ore 14 ounces of gold, 40 ounces of silver, and 54 pounds of copper were recovered.

REFERENCES

Church, N.B.; Lexington; Geology, Exploration and Mining, 1970, p. 413, British Columbia Dept. of Mines.
 Reports of Minister of Mines, British Columbia: 1892, p. 544; 1894, p. 757; 1896, p. 563; 1897, p. 584; 1937, p. D 22; 1962, p. 69.
 Geology, Exploration, and Mining; British Columbia Dept. of Mines; 1969, p. 308; 1971, p. 376.
 Mineral Development Sector; Corporation Files: "Lexington Mines Ltd."; "Aalenian Resources Ltd."

MAP REFERENCES

*Geology of the Mabel area, Sc. 1":200 ft., Fig. 64 - accomp. Geology, Exploration, and Mining, 1970.
 Geology of the McCarren Creek, Goosmus Creek Area, Sc. 1":2,500 ft., Fig. 62 - accomp. Geology, Exploration, and Mining, 1970.
 Map 6-1957, Kettle River, (Geol.), Sc. 1":4 miles.
 *Map 82 E/2, Greenwood, (Topo.), Sc. 1:50,000.

REMARKS

BCI 82E/SE - 149

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Date	10-74						

NAME OF PROPERTY

MABEL

DESCRIPTION OF DEPOSIT (continued)

stock located near the confluence of McCarren Creek and Gidon Creek in the southwest part of the map-area.

The acid igneous rocks are intruded by a large Cretaceous(?) serpentine dyke-like body which extends northwest from south of the International Boundary to McCarren Creek, a distance of about $4\frac{1}{2}$ miles. A series of Early Tertiary diorite dykes and a number of irregular-shaped intrusions are found throughout the area.

The so-called Mabel veins are located between the No. 7 and the City of Paris properties. These veins consist of a series of small, auriferous quartz stringers which were actively prospected in 1897 and again in 1937. The only production from the area was in 1937, when an inclined shaft was sunk on a narrow zone of silicified schist yielding 117 tons of ore with low gold, silver, and copper values.

A detailed examination of the Mabel area shows that some of the silicified zones and quartz stringers are related to broader, replacement-type sulphide deposits apparently associated with large Tertiary diorite dykes. The replacements occur as thin pyrite-pyrrhotite layers in laminar-bedded siliceous argillites or ill-defined zones of more massive sulphides. Analysis of a pyrrhotite-rich composite sample from a 15-foot-wide replacement lens exposed on the main road south of the Mabel portal shows 15.04 per cent iron, 0.05 per cent copper, and only a trace of gold and silver.