

NAME 01 BIBLIO

**MINISTRY OF ENERGY, MINES AND
PETROLEUM RESOURCES**
VICTORIA, BRITISH COLUMBIA

SUBJECT MOTHERLODE

82ESE081

SUB
FILE No. 01

001230

check

MINERAL DEPOSIT INVENTORY

Property No. 1190 Metal. Industrial Mineral. Placer. Coal. Lapidary. Number of cards.

Name: Current _____ Previous _____

C.G. lot name Mother Lode No. 1508 min. lease M-197

Owner: BURNT BASIN MINES LTD 1972 Operator _____

DONNA MINES LIMITED - 1973 PREC. 1

Location: Map No. 82E/5E/81 N.T.S. Sheet 82E/1E L.L.Q. 49°118'S.E. Claim _____ El. _____

M.D. Greenwood In park _____ E. & N. Phys. subd. Monashee Mountains

Isolated deposit. Mineralized region. Mining camp _____ Locality BURNT BASIN

Discovery: Date _____ Method _____

Status: Producer : Active. Intermittent. Inactive. Exhausted. L.+ L. M. S. S.-

Non-producer : Pot. prod. Under exploration. Prospect. Occurrence.

Reserves: L+. L. M. S. S-. Tons _____ Grade _____

Est. potential: L+. L. M. S. S-. Grade _____

Development: Surface _____ Surveys: Geophys. Geochem. Geol.

Underground Shaft 65'; adits 300'

Diamond drilling _____ Other drilling _____

Reports on Property: M.M. A.R. 1899, 849; 1900, 872, 1066; 1901, 1066; 1902, 30A, 305; 1903, 174; 1917, 201.

Dept. expl. forms 1972-33, 1974-32, 1975-1978-E13

Assessment reports: Geological _____ Geophysical _____ Geochemical _____

Geological and maps _____

Reports on Region: Geological _____

Geophysical _____

Geochemical _____

Recorded by _____ Date _____ Revised by _____ Date _____

Summary description _____

Category of deposit vein

Wallrock(s) _____ Formational name _____

Attitude of deposit: Strike 90° Dip 45° Azimuth _____ Plunge _____

Size: Length _____ Width _____ Depth _____

Character of mineralization _____

Main elements Au

Mineralogy quartz; pyrite, galena, sphalerite; chalcopyrite, molybdenite; gold, copper.

Assays _____

Production: Tons _____ Grade _____

Remarks Platinum found in ore in 1902; R.W. Brock found Pt. assays to 0.13 in 1904 (pamphlet); believed to occur in isolated segregations. Free gold has been seen in pulchite porphyry dykes (Druck).

- estimated at 701,378 tons assured, 740,159 tons probable, and 864,338 tons inferred, the total grading 0.65% copper. (Nov./69 N.M. Handbook)

FIN. POST 11/8/73 - 2-4 M. Tons @ 0.65% Cu + Au values

- Part of BURNT BASIN MINE

Product(s) Au, Pb, Zn, Cu, Mo, Pt
1935, 1941, 1931, 122; 1932, 123
1972-33, 1973-32, 1974-33, 1975-
Property No. 1190
82E/5E-81

PRODUCT

GOLD

PROVINCE OR
TERRITORY

British Columbia

N.T.S. AREA

82 E/1

REF. AU 2

NAME OF PROPERTY

MOTHER LODE, AJAX

OBJECT LOCATED **No. 2 adit - Mother Lode claim (Lot 1508).**

UNCERTAINTY IN METERS-200.

Lat. 49°10'45"

Long. 118°07'45"

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 underlying rocks are Pennsylvanian and/or Permian limestones, argillites, and greenstones, of the Mount Roberts Formation. These rocks are cut by granodiorite dykes and apophyses, and by a basic gabbroidal rock. A westerly striking and northerly dipping quartz vein lies in greenstone between two large porphyry dykes. Where exposed the vein ranges from 2 to 6 feet in width. The quartz, which is somewhat milky, has small amounts of metallic sulphides scattered through it. Pyrite, galena, and sphalerite are the commonest, but chalcopyrite and some molybdenite also occur. On the surface the sulphides have been leached out, leaving free gold and some copper carbonates in the stony and porous quartz. A little native copper is also reported to have been found at the surface. The principal value is in gold, but a little silver is also present. Platinum assays from a trace to 0.25 oz./ton were obtained in 1902 from samples obtained from both the upper and lower workings; these values have not been duplicated by more recent sampling; the platinum apparently occurring only in isolated segregations in certain sections of the workings. The upper and lower workings are on faulted sections of the same vein.

Associated minerals or products of value - Silver, lead, zinc, copper, molybdenum, platinum.

HISTORY OF EXPLORATION AND DEVELOPMENT

The Mother Lode claim is located at the 4,500 foot elevation at the head of Jost Creek, 2½ miles northwest of Coryell.

The Mother Lode group, comprising the Mother Lode (Lot 1508), Ajax (Lot 1509), Ajax Fraction (Lot 1512), Daly (Lot 1510), Glengarry, Mountain View, and Mountain View Fraction, and Contact claims, were under development in 1900 by G.A. and H.P. Jackson and J. Miller. Contact Consolidated Gold Mines, Limited, was incorporated by the owners in May 1901. The Contact (Lot 1421), Mountain View, Mountain View Fraction, and Glengarry (Lots 2592-2594, respectively) were Crown-granted to the company in 1901. Work to 1903 totalled about 300 feet of crosscuts and drifts in 3 adits, a 65 foot shaft, and open cuts. Two of the adits were driven on the Mother Lode claim; the third adit was driven on the Contact claim.

No further activity was reported until 1925 when K.V. Mines, Limited, optioned the property. Some development work in the lower adit was reported by the company. The company charter (Contact Consolidated) was surrendered in 1956.

Christina Lake Mines Ltd., incorporated June 1964, acquired 20 claims and 5 leases, including the Mother Lode property; trenching was reported. Dalex Mines Ltd. held 35 claims during 1966-1969. Work included induced potential and geochemical soil surveys. Burnt Basin Mines Ltd. was incorporated in December 1971 to acquire 21 claims and fractions, and 15 mineral leases. By an August 1972 agreement, an 80% interest in the property was optioned to Donna Mines Ltd. In October 1972 Donna Mines gave a working option on the property to Grey River Mining Company Limited.

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

512550 *

82E5E081 A

HISTORY OF PRODUCTION

REFERENCES

Reports of Minister of Mines, British Columbia: 1900, p. 872; 1901, p. 1066; 1902, p. 304; 1903, p. 174; 1917, p. 201; 1925, p. 194; 1932, p. 123; 1964, p. 112; 1965, p. 173; 1966, p. 198. 1968, p. 236.

O'Neill, J.J. and Gunning, H.C.; Platinum and Allied Metal Deposits of Canada; Economic Geology, Series No. 13, p. 104, Geol. Surv. of Canada, 1934.

Mineral Development Sector; Corporation Files: "Contact Consolidated Gold Mines, Limited"; "Donna Mines Ltd."

Geology, Exploration, and Mining; British Columbia Dept. of Mines: 1969, p. 311.

Galloway, J.D.; Lode-Gold Deposits of British Columbia; Bulletin No. 1, 1932, p. 80, British Columbia Dept. of Mines.

MAP REFERENCES

Map 6-1957, Kettle River, (Geol.), Sc. 1"=4 miles.

*Claim Map-Contact Consolidated Gold Mines, Limited.

#Map 82 E/1 E, Grand Forks, (Topo.), Sc. 1:50,000.

REMARKS

BCI 82E/SE - 81

Comp./Rev. By	MacR						
Date	9-74						