

PRODUCT	GOLD (PLACER)	PROVINCE OR TERRITORY	British Columbia	N.T.S. AREA	103 F/16	REF. AU 1
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NAME OF PROPERTY BLUE JACKET CREEK (MASSET SOUND)

OBJECT LOCATED -map symbol.

UNCERTAINTY IN METERS 300. Lat. 53°59'25" Long. 132°08'10"

Mining Division Skeena District Queen Charlotte

County Township or Parish

Lot Concession or Range

Sec Tp. R.

OWNER OR OPERATOR AND ADDRESS

DESCRIPTION OF DEPOSIT

The beach and bordering bluffs consist of Pleistocene to Recent superficial deposits of unconsolidated to semi-consolidated sands, clays, sandy clays, gravels, and conglomerates. The basal formation is a blue-grey glacial clay. The black sands occur in lenses 1 inch to 12 inches in thickness, a few tens of feet wide, and possibly 500 or more feet long. The black sands contain gold, magnetite, ilmenite, rutile, and zircon. The heavy mineral concentrates resulted from reworking during southeast gales of the Pleistocene era.

Associated minerals or products of value - Iron, titanium, zirconium.

HISTORY OF EXPLORATION AND DEVELOPMENT

The gold-bearing black sands of northeast Graham Island have been known since 1877. The Blue Jacket Creek sands are located one mile south of Masset, on Masset Sound.

In 1923 a gold-washing plant with a capacity of 30 yards per hour was installed; values were estimated at 80 cents per yard. Registered in 1924, P.B.C. Mines Co., with a capital of \$75,000 held 7 hydraulic leases. The company carried out placer operations from March to October and conducted concentration and fire assay tests to determine average gold content. Graham Island Mining Co., Limited, was incorporated in 1926 to acquire 5 leases covering an area of 7,500 by 1,000 feet of beach. A 10 ton chemical testing plant was installed on the property. From a 48 ton sample, sorted from 72 tons of sand from various pits in the area, a recovery of \$76 in gold or \$1.06 a ton was obtained. By 1928, the company had dug and sampled 56 test pits; the best sample assayed 0.6 ounces of gold and 2 ounces of platinum per ton.

Mogul Mining Corporation Limited in about 1956 acquired placer mining leases covering about 55 square miles. In June 1957 Lexindin Gold Mines, Limited, acquired from Mogul a 65% interest in the property. Beach sand and cyanide tailings samples were sent to the Mines Branch, Ottawa, in December 1956 and June 1957 for tests for concentrates of magnetite, ilmenite, rutile, and zircon. A chemical analysis of 2 head samples gave averages of 41.48% iron and 8.38% titanium dioxide.

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

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HISTORY OF PRODUCTION

Recorded production for the Masset Sound and northeast Graham Island beach placers is as follows:

	<u>ounces of gold</u>	<u>value \$</u>
1921-25	4	70
1926-30	28	489
1931-35	333	8,907
1936-40	262	7,864
1940-45	88	2,852
TOTALS	<u>715</u>	<u>20,182</u>

MAP REFERENCES

Geology of the Queen Charlotte Islands, Sc. 1:125,000, Fig. 5, Sheet C - accomp. Bulletin No. 54.

#Sheet 103 F, (MI), Graham Island, Preliminary Mineral Inventory Map, Sc. 1:250,000, British Columbia Dept. of Mines.

*Map 103 F/16 E, Masset Sound, (Topo.), Sc. 1:50,000.

REMARKS

Comp./Rev. By	LJ						
Date	6-75						

REFERENCES

Brown, A. Sutherland; Geology of the Queen Charlotte Islands; Bulletin No. 54, p. 174, British Columbia Dept. of Mines, 1968.

Holland, Stuart S.; Placer Gold Production of British Columbia; Bulletin No. 28, p. 48, British Columbia Dept. of Mines, 1950.

Placer Mining in British Columbia; Bulletin No. 1, pp. 24-25, British Columbia Dept. of Mines, 1933.

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Mines Branch, Ottawa; Investigation Report No. MD 3177, October, 1957.

Mineral Development Sector; Corporation Files: "The Queen Charlotte Islands Collieries, Limited"; "Tretheway-Tough Mining Syndicate, Limited"; "Graham Island Mining Co., Limited".

Reports of Minister of Mines, British Columbia: 1906, p. 75; 1909, p. 72; 1918, pp. 37, 104; 1923, p. 41; 1924, p. 43; 1928, p. 63; 1929, pp. 62-65; 1930, p. 63; 1932, p. 38; 1933, p. 40.

Canadian Mining Journal: April 11, 1924; November 6, 1925; October 18, 1925; October 20, 1925; November 28, 1924, p. 1165.

Western Canada Mining News: July 10, 1931.

Mandy, Joseph T.; Gold Bearing Black-Sand Deposits of Graham Island; B.C.Miner, November 1933, pp. 714-718.