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.

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

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Ounces of Gold</th>
<th>Value $</th>
</tr>
</thead>
<tbody>
<tr>
<td>1921-25</td>
<td>4</td>
<td>70</td>
</tr>
<tr>
<td>1926-30</td>
<td>28</td>
<td>469</td>
</tr>
<tr>
<td>1931-35</td>
<td>333</td>
<td>8,907</td>
</tr>
<tr>
<td>1936-40</td>
<td>262</td>
<td>7,864</td>
</tr>
<tr>
<td>1940-45</td>
<td>88</td>
<td>2,852</td>
</tr>
<tr>
<td>TOTALS</td>
<td>715</td>
<td>20,182</td>
</tr>
</tbody>
</table>

REFERENCES

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


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


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


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.

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.