

MASTODON-HIGHLAND BELL MINES LTD.Recommended Work Program for the JIB Group, Q.C.I.

The JIB group (see Fig. 1) of six claims is on the south-east corner of Burnaby Island, 4 miles north of the Jedway iron mine of the Granby Mining Co. Ltd.

The claims were originally held by Dennison Mines Ltd., which company retained Hunting Survey Corp. Ltd. to do an aeromagnetic survey of part of the Queen Charlotte Islands during the summer of 1961.

As a result of the Hunting survey the claim area in question was staked as the Den group by Dennison Mines Ltd. Following geological and dip needle work, Dennison engineers recommended that the anomalous area be diamond drilled, pointing out correctly that, in addition to magnetite, copper might be found in the anomalous area.

As Dennison was not active in B. C. during the summer of 1962 it was considered advisable to keep a quiet watch on the Den claims. The claims lapsed on September 15th and were re-staked for Mastodon-Highland Bell as the JIB group, on September 16th.

Information Presently Available:

The geology (see Fig. 2) of the claims is excellent for deposits of magnetite and copper. Occurrences of both minerals have been found on the claims.

The aeromagnetic anomaly obtained by Hunting is of the same size and intensity as that company obtained over Granby's "Jessie" orebody at Jedway. The anomaly was obtained from an aircraft flying a terrain clearance of 500 feet. In B. C. it is axiomatic that any sizable aeromagnetic anomaly obtained at an elevation of 300 feet above the ground warrants further investigation.

The aeromagnetic anomaly in question is shown in Fig. 3. Its one detracting feature is that it occurs largely over water. The water, however, is shallow, the depth being 30 - 40 feet over the centre of the anomaly.

The offshore location of the anomaly presents little difficulty as far as diamond drilling is concerned. It, of course, precludes the feasibility of a surface operation but, should a sufficient tonnage of good grade ore be found, the situation is no different than that existing at several mines in Eastern Canada.

Data Presently being Obtained:

A crew under the direction of W. B. Bacon is engaged in a boat magnetometer survey over the anomalous area. This is for the purpose

of outlining that area in detail.

At the same time numerous soundings are being taken in order to obtain a contour map of the shallow sea bottom.

The total cost of this work will be less than \$1,000., including salaries, transportation, supplies etc.

Future Work:

Diamond drilling will be recommended if, as expected, the situation remains favourable at the conclusion of the present work.

The holes will be collared on the shoreline and their locations, bearing and dip angle will depend on the configuration of the anomaly obtained from the boat magnetometer survey.

In the event of drilling, it is hoped that a drill can be rented from Jedway.

WRB:c

W. R. Bacon

APPENDIX.

Canex Drilling on "Iron Duke", O. C. I.

Footage drilled 3,054'
(1 drill - 2 shifts - "A" core)

Costs:

Drilling	\$18,394.
Camp construction	5,093.
Consultant	311.
Float rentals	1,324.
Supplies, equipment	5,494.
Northland Navigation	6,302.
Helicopter rental	13,294.
Canex staff	6,433.
Cook, auxiliary labour, etc.	8,435.
Travelling expenses	3,373.

\$68,953.

Total cost/ft. \$23.00