Labrador Mining and Exploration Company Limited

INTER-OFFICE CORRESPONDENCE TORONTO

TO

J. F. White

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FROM

J. H. Ratcliffe

SUBJECT. ASPEN GROVE, B.C. EXPLORATION PROPOSAL

Interest in the Aspen Grove area was generated because of its similarity to the Quesnel Trough where recently gold deposits have become the focus of attention. Here-to-fore both areas have been explored for copper with numerous showings having been found, but production has been limited.

In his report on the Aspen Grove area, Preto (p.23) says, "Rocks of the Nicola assemblage continue northward beneath an extensive cover of Tertiary strata into the central part of the Quesnel Belt (formerly Quesnel Trough, R.B. Campbell, personal communication, 1978) and extend along the full length of the Intermontane Belt into northern British Columbia and where they are known as the Takla and Stuhini volcanic In his summary of the significance of the volcanic-intrusive assemblages." relationships on p. 78 and 79, Preto points out that the structural controls required for porphyry-type mineral deposits are present at Aspen Grove and in the Quesnel Trough. He goes on to say that "Mineralization may or may not be associated with every pluton, but the locating of a stock is an important initial step in outlining an exploration target."

This leads to the aeromagnetic data, which when studied in conjunction with the geology, revealed that the diorite intrusives were often associated strong aeromagnetic anomalies. Furthermore, there indications that the syenitic or monzonitic intrusions are nucleii for the Many of the copper showings were found in direct diorite intrusions. association with the diorite intrusions. At the QR deposit in the Quesnel Trough, a diorite intrusion is closely associated with the gold occurrence.

With these thoughts in mind, the recorded showings within the selected area were located and checked against the aeromagnetic data. Of the 25 showings listed, 16 were directly associated with magnetic anomalies. was reported with the copper showings in two cases, both of which were associated with magnetic anomalies.

The mineral occurrences which were checked during this study are listed in Appendix "A". The two deposits in which gold was reported are listed as #1 - Boomerang and #18 - Bank of England. The Boomerang deposit is contained within the BLOD claim block, but the Bank of England occurrence lies west of Alleyne Lake and north of a project 2 x 3 claim This same area contains two other copper showings and 2 magnetic anomalies, shown as #1 and #2 on the proposed staking sketch. It is suggested that these should be acquired if possible.

Magnetic anomaly 3 is located east of the Kentucky - Alleyne Fault and may be related to the late Valley Basalt. If so, the basalt must be much thicker than normal here or perhaps the magnetic anomaly represents a The magnetic zone is quite extensive but rock outcrop is feeder vent. completely missing. Magnetic anomaly 3, therefore, is not recommended at this time, but should perhaps be studied in the field to determine its cause.

Magnetic anomaly 4 may be similar to #3 since the closest rocks are Anomaly 4, however, lies to the west of the Kentucky -Alleyne Fault and is therefore in the central zone which is of greater interest since it contains most of the diorite intrusives.

A short distance to the southwest of anomaly 4 is anomaly 5 which can be correlated with a diorite intrusive and one of the more interesting showings - #3 - Strike, North MDA, etc.

Magnetic anomalies 6 and 7 on the east shore of Missezula Lake are small and could be related to alteration related to a syenite - monzonite A copper showing is directly related to anomaly 6. intrusive.

In view of these relationships it would appear to be prudent to acquire anomalies 4, 5, 6 and 7, if possible.

We would therefore be looking at acquiring 6 additional claims having a total of 73 units, if they were all available.

No matter what the outcome of the staking, this area appears to hold a great deal of promise and should be a very interesting project.

> Respectfully submitted, J. H. Ratcliffe

Attachment Appendix "A"

MINERAL DEPOSITS - ASPEN GROVE

- 26 ESP Andesite & Basalt py; cc. No mag.; Geochem 1972
- *29 Shamrock Lahar, Conglom.; cc.; mal; cp; on high mag. trend.
- * 3 Strike, Lorna, North MDA Diorite; cp; py; on high mag. trend move N.W. 1 mile; mag.; geochem. 1972.
- * 2 Miss Trachy basalt flow; cp; bn; py; on small mag. high.
- * 25 Boss, Gail BIM, Tight, Lo, J. Massive Green Laharic bx.; cc; cp; some Cu; N.E.flank of mag. high. 1972 1000' DDH (3 holes)
- * 47 Daisy Red lahar; co; hm; mal; mt; Off end of mag. high trend near diorite dyke (?)
- * 24 Vancouver, Victoria Red lahar bx; cc; On mag. high near syenite dyke (?)
- * 46 Bunker Hill Bx pyrox. plag. andesite; cc; bn; cp; py; on mag. high trend
- * 23 Portland, Covington, Vicksburg, Quebec Green and red laharic bx; cc; mt; hm; On mag. high trend.
 - 22 Tom Cat Green laharic bx; cc; mt; bn; cu; hm; mag. flat.
- *Au 1 Boomerang Microdiorite (& Limestone?); cc; bn; on mag. high diorite
- * 19 Cincinatti Massive green Nicola lahar; cc; bn; cp; cu; cup; on end of weak mag. high
- *Au18 Bank of England Massive green Nicola lahar; cc; bn; cp; on end of weak mag. high
- * 21 Lytton Massive red lahar; cc; cp; bn; flank broad mag. anomaly
- * 20 Georgie Massive red lahar; cc; native cu; flank broad mag. anomaly.
- * 17 Golden Gate Red & green laharic bx; cu; cp; bn; cc; py; cup; close to strong mag. trend.
 - Dago, Open Argillite, limestone; bn; cp; some cu; mag. flat.; 14 DDH

- A Emerald Red volcanic bx massive augite flows; mal.; cc; cp; mag. flat.
- B Marge Nicola volcanics & seds.; ? no minlzn. reported geochem. survey mag. low.
- C Vagas Nicola Group volcanics; ? no minlzn. reported geochem. survey mag. flat.
- D HH, MIX Nicola limestone, limy argillite and green volcanic bx; mal; cp; no minlzn. reported; mag. survey mag. flat.
- * E PAY, ABE Altered Nicola volcanics; cc; bn; cp; cu; cup; DDH 1967 2300'
 - F M Geophysics only in 1967
 - G Kentucky Altered Nicola volcanics; cc; cp; I.P., 3 DDH 1967
- * H AMALG E.M. & mag. surveys under W.M. Sirola 1969.

