23/6

GEOCHEMICAL REPORT

B.C. CLAIMS, BARNARD CREEK

3 MILES S.E. OF ASHCROFT, B. C.

50° 121°

FOR

CROYDON MINES LTD. (N.P.L.)

SEPTEMBER 16 - OCTOBER 29, 1969

The profession pro

J. W. Hogan, P.Eng. L. J. Manning & Associates Ltd. 610 - 890 West Pender Street Vancouver 1, B. C. April 13, 1970

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Department of Mines and Petroleum Resources ASSESSMENT REPORT

NO. 23/6 MAP

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INTRODUCTION

The following report is on a Geochemical Soil Survey over the B.C. Group of Claims, Barnard Creek Area, Highland Valley, B.C.

GENERAL GEOLOGY AND TOPOGRAPHY

The west half of the property is underlain by the Hybrid Phase of the Guichon Batholith, with the extreme west edge covering the post-intrusive Guichon contact. The east end of the property overlies the pre-intrusive Nicola Group.

Topography is of flat to moderate relief.

SAMPLED SOIL HORIZON

Soils were taken from the "B" Horizon. In general, the "A]" (Humus) horizon was 1"-3" thick, while the "A2" leached horizon was from 0"-4" thick.

SAMPLING PROCEDURE

Samples were taken on a line grid basis. This grid was at a 400' line interval on 200' stations. A shovel or mattock was used to reach the "B" horizon where a 30-40 gram sample was placed in a standard 4" x 9" soil sample envelope. Drainage slope, swamp, etc. were marked on the envelope with the corresponding grid location.

Samples were partially air dryed, and all information on the envelopes was transferred to record sheets. Samples were then shipped to Bondar-Clegg, North Vancouver, B.C.

SAMPLE PREPARATION AND LABORATORY ANALYSIS

Bondar-Clegg treated the samples in the following manner:

- Drying
- Visual examination for soil horizon, color texture and organic content
- Sieve to -80 mesh fraction
- Hot extraction by HNO₃-HCl
- Atomic absorption analysis for copper Parts Per Million

SUMMARY AND CONCLUSIONS

The laboratory determination of organic content of samples eliminated the spurious anomalies resulting from incorrect sampling of the "A" Horizon. The results of these organic samples are shown on the enclosed plan but the analysis were not used for determining threshold values. Threshold values were taken as double the median (range of double minus 5 p.p.m.).

An anomalous zone in copper is centered at line 0-40W. Field observations indicated that this zone is possibly due to drainage from an outcrop area which contains traces of chalcopyrite in "Hybrid" quartz diorite.

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