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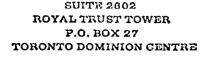
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REPORT ON DIAMOND DRILL PROGRAM - 1971 BOB CLAIM GROUP SIMILKAMEEN MINING DIVISION PRINCETON, B.C.

Latitude 49° 25' Longitude 120° 30'

INTRODUCTION

During the period November 14-16, 1971, a diamond drill hole was put down on Knob Hill Explorations Limited Bob claim group near Princeton, B.C. The drilling was conducted by D. W. Coates Enterprises Ltd. of Vancouver, B.C. utilizing B.Q. wireline equipment. On-site supervision of the program was provided by Mr. R. C. Phillips, while head office supervision was afforded by the writer.

Prior to the drilling a grid survey was conducted in order to establish the location of the hole with reference to a grid utilized during 1967 and 1968 surveys over the area.

Also included in this report is the summary drill hole log and a profile of the drill hole drawn by the writer at a scale of 1" = 20'

LOCATION AND ACCESSIBILITY

The Bob claim group is located approximately three and one-half miles south-southeast of Princeton, B.C. (See Fig. 1 - Claim Group Location Map).

Access to the claim group-is via a hard surface road which runs between Princeton and Copper Mountain; and by a system of woods roads which branch off from this main artery.

TOPOGRAPHY AND VEGETATION

The topography in and around the claim group is typical plateau relief for this portion of the interior of British Columbia. Gently rounded hills disected by U-shaped stream valleys are prominent.

Vegetation consists essentially of short grasses and good stands of yellow pine, fir and spruce.

RESULTS OF DRILL HOLE K.H.E.-2

Hole K.H.E.-2 is located in the Bob 8 claim of the Bob claim group. This claim group is located about four miles south-southeast of the town of Princeton, B.C.

In 1968 the A.G.N. Syndicate put down a hole at 0+00N; 26+00E (Bob 8 claim) to test an area of anomalous I.P. response. A vertical hole of proposed depth of 500 feet was attempted but was stoped at 266 feet due to caving and poor ground conditions. Results of the drilling revealed interbedded Tertiary sediments containing fine carbonaceous partings. This carbonaceous material was believed to be responsible for the anomalous I.P. condition, although it was felt that the hole had not gone deep enough to prove this conclusively.

In November 1971 a vertical drill hole (K.H.E.-2) was put down 100 feet west of the 1968 hole at co-ordinates 0+00N; 25+00E. Flat lying Tertiary siltstones, sandstones and clays were encountered over the 490 foot length of the hole. A 50 foot section of dark brown to black carbonitized clay was encountered between 413.0 feet and 463.0 feet. This material, in combination with other fine carbon partings noted throughout the hole, would be sufficient to account for the anomalous I.P. conditions at this location.

CONCLUSIONS AND RECOMMENDATIONS

Results of Hole K.H.E.-2 failed to encounter any sulphide mineralization, nor to penetrate the Tertiary sedimentary sequence. The fine carbon partings noted over the length of the hole, in combination with a pronounced fifty foot band of carbonitized clay between 413.0 feet to 463.0 feet would account for the anomalous chargeabilities revealed in an induced polarization survey at this location.

No further exploration is planned for the Bob claim group.

L. V. MacCormack, B.Sc.

. Tertiary or Mean?

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Toronto, Ontario, December 1, 1971 WRONET - last 30' is anderite

BOB. Shoup A.G.N. SYNDICATE PROJECT 10-01 SUMMARY LOG OF DRILL HOLE #2 LOCATION: LINE ON: STA. JUE ELEV.: JIOO' DIRECTION: - DIP: VERTICAL DRILLED: APPIL 3-11,1968 LENGTH: 26.6' FROM TO DESCRIPTION SAMPLE FROM TO LENGTH 01 B4'6" OVER BURDEN 84"6" 91'0" GREENISH TO LIGHT GREY. CLAX. 91'0" 119'4" INTERBEDDED AND UNRICOLORED CLAYEY SILTSTONES, MINOR DISSEMINATED PURITE, (4.5%) 19'4" 120'4" LIGHT GREY CLAVEY SANDSTONE. 120'4" 125 O" INTERBEDDED AND VARICOLORED SILTSTONES 25'0" 137'6" GREY CLAY. 1376" 1840" LIGHT GREY QUARTZOSE SANDSTONE WITH MINOR SECTIONS OF CLAY AND CARBON. 1810" 1870" VARICOLORED SILTSTONES. 1870" 189'0 LIGHT GREY QUARTZOSE SANDSTONE.

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DESCRIPTION FROM To SAMPLE FROM TO KENGIN "Al'O" 242'0" DARK BROWN SILTSTONE. 242'0" 246'0" MEDIUM GREY SANDSTONE. HIGH CARBON CONTENT. (35%-40 %) Minor Pyrise (6.5%) 2960" 250'0" INTERBEDDED AND UARICULED SILTSTONES AND CARBONACEOUS SANDSTONE. 250'0" 254'0" BLACK, CARBONACEOUS SILTSTONS. 2540" 264'0" MEDIUM GREY SANDSTONE. HIGH CARBON CONTENT. (35% - 40%). MINOR FINE PyRITE (4.5%) 2640" 2648" DARK BROWN SILTSTONE. 269'8" 266'0" INTERBEDDED AND UNEI-COLORED SILTSTONES AND HIGHLY CARBONACEOUS SANDSTONS. MINOR PYRITE (4.5%) 266 EOA.

(b) Princeton Group

Tertiary volcanic and sedimentary rocks underlie about one half of the Nob Claim Group. Exposed Tertiary rocks generally consist of red-brown weathered hornblende andesite. Fresh varieties vary from grey to grey-brown. Over 400' of Princeton Group sediments have been encountered in a diamond drill hole on Nob 8 and coal was reported to have been encountered in a well located east of the Anderson's ranch house.

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The presence of a thick sequence of Tertiary sediments south of Knob Hill suggests either a down-faulted block or an initial Tertiary depression. Faulting is favoured because of an apparent offset of Nicola strata southeast of Knob Hill.

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EXPLORATION POTENTIAL

The Nob Claims have been tested by I.P., magnetometer, geochemical and geological surveys, and several diamond drill holes have tested areas of better showings and/or I.P. response. Results to date have not been encouraging. Weak copper mineralization present in showings has not been found to improve with depth.

The strongest I.P. (31.5 ms) response is from the Knob Hill Crown Grant and sufficient pyrite (1-3%) occurs to account for the response. The I.P. response (high 25.0 ms) over a covered area southwest of Knob Hill is difficult to explain. Drill Hole KHE-2, drilled on the trend of this anomaly, encountered over 400' of Tertiary sediments that do not contain sulfide mineralization. Carbonaceous horizons were encountered within the Tertiary sediments and anomalous chargeabilities have been attributed to these carbon-rich horizons. Mapping has indicated that a fault should exist along the trend of this I.P. anomaly and alteration associated with the fault zone is another possible cause of the I.P.

newmont mining Corp. 9

response. Report on the Exploration of the NOB Group P.A. Christopher & T.N. Macasley

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