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GRAVITY SURVEY (1956) REPORT

PROSPECTORS AIRWAYS COMPANY LIMITED

VANGORDA CREEK PROPERTY, Y.T.

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VALIS

The survey is an extension of the area covered in 1955. Its purpose was to detect massive sulphide bodies as possible extensions of the Vangorda Creek deposit.

The survey was conducted in the same manner as the previous survey except for a change in base station values necessitated by the much greater (1200') elevation difference over the enlarged area. The old survey was adjusted to fit into the new one with slight changes being made to adjust for more accurate terrain correction values.

INTERPRETATION

No large anomalies were discovered indicating a deposit similar in tonnage to the Vangorda Creek body.

Four small anomalous areas were found and sufficient exploratory work was done to determine their causes.

Area 1 (Map 1) Claims Firth 6, Firth 8 and Chuck 8.

Three small .20 to .30 milligal gravity highs occurred near the sedimentary contact. Follow-up drilling encountered numerous bands of sulphides but large intersections were not continuous. A tonnage estimate based on the gravity work indicates approximately 500,000 tons of ore. Thus the anomaly is due to small scattered lenses of sulphides which, when added together, are of too small a tonnage to merit further exploration.

Area 2 (Map 1) Champ 7 and 8.

This gravity high is broad and large. Several strong magnetic

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anomalies occur within it. D.D.H. #167 was drilled (to a depth of 500') on a magnetic high near the centre of the gravity anomaly without encountering any sulphides. The broad gravity high can be attributed to a gradual decrease in the depth of fill from a norm of 40' to 8' at D.D.H. #167. A change in fill of this order would produce a gravity high corresponding to the magnitude of the observed anomaly. The presence of numerous magnetic highs in this area is probably also due to the reduction in the depth of fill. No further work is recommended.

Area 3 (Map 1) Bix 3, Grum 5

Two small anomalies were detected and subsequently drilled. This case is very similar to Area 1 in both gravity and drilling results. The tonnage of sulphides is very small and no further work is recommended.

Area 4 (Maps 2 & 3) Alice 5, Wynne 8, Slim 6 and Trim 1

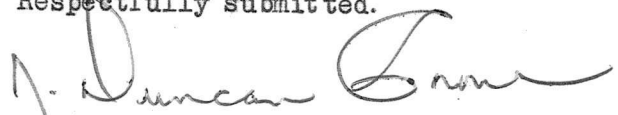
In the south-east corner of the area surveyed, several broad gravity highs occurred accompanied in each case by a magnetic high. Both gravity and magnetic highs can be correlated with small gabbro intrusives that form a band striking through this region. The nature of the gravity anomalies would indicate a change in rock type rather than a mineralized zone. Thus the anomalies are due to small gabbro intrusives and no further exploration is recommended.

On the remainder of the area surveyed the gravity contours were exceptionally flat.

CONCLUSIONS

No large tonnage massive sulphide body similar to the Vangorda Creek deposit was detected in the area covered. Of the four anomalous areas discovered two were due to small sulphide lenses, one due to a change in the depth of fill and one due to a change in rock type.

Respectfully submitted.


J. Duncan Crone