

Foto Claims .
Yukon Territory
Gravity Interpretation

for

Dynasty Explorations, Ltd.

by

Airborne Geophysical Surveys Ltd.

June, 1973

Introduction

Field work on the Foto claims was conducted during the month of June, 1973. Fly camp, supplies, air support, communications and direction were provided by Dynasty Explorations, Ltd.. Airborne Geophysical provided gravity meter, survey instruments and a three man crew consisting of meter operator, surveyor and rodman.

Programme consisted of about 9 miles of east-west lines. Line spacing was 800' for the most part, and station spacing was 200'. Surface elevation decreased across the area in a westerly direction. Maximum elevation range is 1400 ±. Local undulations are present in the generally uniformly westerly dipping surface.

Accompanying this report are the following maps:

Bouguer gravity

Residual gravity

Bouguer Map

Bouguer values were calculated in a normal manner using an elevation correction factor of 0.06 (corresponding to a surface rock density of approximately 2.7). The Bouguer map, contoured at a 0.5 mgal. interval, indicates a northeasterly regional gradient across the area - counter to surface slope. This suggests that the elevation correction factor of 0.06 is too low. However, local surface undulations do not create "gravity anomalies". The Bouguer map presented herewith is an extension of one completed during the 1972 season.

There are no Bouguer closures. Only minor positive flexures are apparent.

Residual Map

Bouguer values and elevations were plotted in profile form. These profiles accompany this report. On prints of the profiles, smoothed Bouguer lines were run. Regionals were also run, tied and adjusted. The residual map accompanying this report represents a contoured presentation of the difference values between smoothed Bouguer and regional. Contour interval is 0.1 mgal. It should be noted that the Bouguer values were smoothed to remove sharp, small,

near-surface effects; and the regional (subtracted from Bouguer) is designed to remove very deep-seated effects. The regional will also include (and remove from Bouguer) very gradually-changing near-surface features. What are left in the residual are shallow gravitational changes caused by density changes from masses having rather abrupt edges. The residual map should be used with care at the limits of data acquisition as regional values (and hence residual values) are under poor control in these areas.

On the residual map, every local positive indicates the presence of a mass which is heavier than surrounding rocks. The mass may be a bedrock topographic high covered by overburden. It may be an injected dike or a local, vertically oriented heavy layer in a metamorphic sequence. It may be a greenstone lens. Or it may be a mass of heavy mineralized material. In evaluating the various positives, the writer relies primarily on amplitude and flank gradient. It should be noted that sulphide accumulations have been found in this region beneath positives as small as 0.5 mgal. On the other hand, some positive anomalies over 1.0 mgal. in amplitude have not been associated with mineralization.

Two positive closures of moderate interest

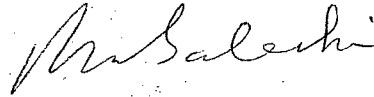
appear on the residual map. These are labelled "G", centered at 20W on line 168N, and "H", centered at 36W on line 192N. These appear to form a trend which may extend through 156N on line 0 to 16E on line 152N. Because of low amplitude (.4 to .5 mgal) these positives are not considered to be particularly attractive drill targets.

Assuming a 0.9 density contrast, the causative mass for "G" and "H" is 40'-45' thick. Maximum possible depth to top at "G" is 175' and at "H" 100'. Both may well be overburden effects.

Recommendations

Unless there is strong geophysical evidence of another type or surface indications of mineralization coinciding with any of the residual positives, no drilling is recommended.

Respectfully submitted,



Robert B. Galeski, P. Geoph.



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July 25th, 1973

Mr. T. Adamson,
Dynasty Explorations Ltd.,
330 - 355 Burrard St.,
Vancouver, B.C.

Dear Sirs:

Enclosed are two copies of a report on the recently completed Foto gravity project. Maps and profiles are being shipped under separate cover. Field data sheets will follow in a few days.

We appreciate the effort made by your people to move our men in earlier than originally planned. It is unfortunate that no outstanding anomalies were uncovered.

Yours very truly,

R. B. Galeski

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