

(acme)
Gravity Interpretation
Yukon Territory
for
Dynasty Explorations, Ltd.
by
Robert B. Galeski, P. Geoph.

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August, 1971

Introduction

Field work was completed in the area by Airborne Geophysical Surveys, Ltd. in the summer of 1971. 125 stations were surveyed and metered. Station spacing was 100' along lines spaced at 400' and 800' intervals. The programme consisted of 5 N-S trending lines and one tie line.

Elevations vary between 2500' a.s.l. and 2800' a.s.l. Highest topography is in the southwest part of the area.

Data were reduced to a sea level datum by use of a 0.060 elevation correction factor (2.7 surface density). Latitude corrections used were made appropriate for the area (rate of change = $1.307 \times \sin (2 \text{ lat.}) \text{ mgal/mi.}$).

Bouguer values were plotted in profile form along with surface elevations. These were smoothed, then plotted, contoured and presented with this report as the "Bouguer Map". Regionals were run on the profiles, and residual values were extracted, plotted and contoured to constitute the "Residual Map" of this report. The profiles, the Bouguer map and the residual map form the basis of the interpretation which follows.

Interpretation

Bouguer Map

Average gradient across the area is about 1 milligal/1000' northeast. Highest values are in the southwest, and gradient is steeper there than in the northeast. Positive nosings occur at the intersection of the base line with lines 16 W and 20W, at 10 S on line 16 W, at 7 S on line 8 W and at 5 S on line 32 W. There are no closures.

Residual Map

Several low amplitude residual positives are apparent. Average amplitude is only 0.2 milligal. It was not possible to make a meaningful depth calculation on any of these.

Conclusions

1. It is thought that all the low-relief residual positives are due to local thinning of overburden.

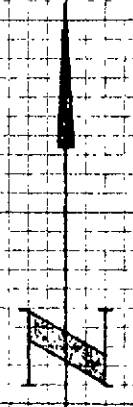
2. There is no evidence that a high-density ore-body of significant size exists with in the area surveyed.

Respectfully submitted,

Robert B. Galeski

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1 September, 1971

0.00



BASE LINE

BASE LINE



DYNASTY EXPLORATION

RESIDUAL MAP

SCALE 1" = 400'

Elek Corr. Factor 0.060

C.I. = 0.2 mgal

F.B. Goloski Aug 1971