GEOPHYSICAL REPORT

KO 1-36 MINERAL CLAIMS

<table>
<thead>
<tr>
<th>CLAIM NAME</th>
<th>RECORD NUMBER</th>
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<tr>
<td>KO 1-4</td>
<td>Y67951-Y67954</td>
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<td>KO 5-12</td>
<td>Y67957-Y67964</td>
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<td>KO 13-14</td>
<td>Y67955-Y67956</td>
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<td>KO 15-26</td>
<td>Y67965-Y67976</td>
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<td>KO 27-34</td>
<td>Y67979-Y67986</td>
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<td>Ko 35-36</td>
<td>Y67977-Y67978</td>
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NTS 105K-6

LATITUDE 62°20'N LONGITUDE 133°20'W

WHITEHORSE MINING DISTRICT

YUKON TERRITORY

FOR WORK PERFORMED DURING THE PERIOD JUNE 1-4, 1975

BY

R.B. GALESKI

JULY 1976
This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of $3,500.00.

Resident Geologist of
Resident Mining Engineer

Considered as representation work under Section 59 (4) Yukon Quartz Mining Act.

E. R. BAXTER
Supervising Mining Recorder

Commissioner of Yukon Territory
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MAPS

BOUGUER MAP
RESIDUAL MAP
GRAVITY INTERPRETATION
KO MINERAL MINES
FOR
MACKIR MINING LTD.
WHITEHORSE MINING DIVISION

INTRODUCTION:

The KO mineral claims were located during February 1973, and are a relocation of claims held formerly by Tay River Mines Ltd. (NPL). The reason for relocating was the proximity of the area to the Faro orebody and the belief that a potential exists to locate economic minerals in a similar geological environment.

In 1976 the claims were optioned to Mackir Mining Ltd. A summary report on the KO claims had been prepared by A. Allen, P. Engineer, in October 1973.

A reconnaissance gravity survey was conducted by Airborne Geophysical Surveys, Ltd. for Mackir Mining Ltd. during the period June 1-4, 1976. Purpose of this survey was to cover the portion of the half-mile wide phyllite zone, extending southeasterly from KO-34 to KO-7, as reported by A. Allen, in order to delineate heavy masses that may lie within this zone.

The 3 man gravity crew located the line of claim posts marking the southeast corners of KO 28, 30, 32, 34, and 36 in the field. The southeast corner of KO 30 was arbitrarily given a grid designation of 0+00 (both N-S and E-W), and the survey proceeded from that point. Completed were the following lines:

0 + 00 from 0 + 00 to 12S 19E from 29N to 27S
12S from 0 + 00 to 27E 24E from 30N to 29S
15E from 30N to 26S

Station interval was 100' on all lines.

Data were reduced with an elevation correction factor of 0.06 (2.67 surface density) and a conventional latitude correction. Terrain corrections were not made. Bouguer elevation profiles were constructed for purposes of interpretation. From these, residuals were extracted and plotted. The Bouguer and residual maps form the basis of this report.
The Bouguer map is contoured at an interval 0.1 mgal. It indicates a relatively steep easterly gradient of 4 mgals/mile in the southern half of the area worked and a gentler northerly gradient of 3 mgals/mile in the north half. The line of demarcation between the two areas of differing gradient extends from 6N on line 15E to 6S on line 24E. This line is presumed to represent the approximate contact between differing bedrock types. Small flexures in the Bouguer contours southwest of this line indicate the presence of small heavy masses discussed in the next section.
RESIDUAL MAP

The residual map (C.I.=0.1 mgal.) shows two positive features - one centred near the intersection of lines 12S and 19E and the other at the southend of line 24E. Although either could be due to the presence of a shallow, very small (uneconomic) sulphide accumulation, it is more likely that both are due to overburden effects.

It is not recommended that either of the above features be given any further attention. However, the remainder of the claim block should be covered by gravity work to see if any better quality anomalies can be found.

Robert B. Galeski, P. Geoph.
ADDENDUM

The following Personnel were employed for the KO Mineral Claims:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Address</th>
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<tbody>
<tr>
<td>ARSENAULT Bob</td>
<td>Surveyor</td>
<td>Box 636 Canmore</td>
</tr>
<tr>
<td>WHITNACK Len</td>
<td>Meter Operator</td>
<td>General Delivery Coaldale</td>
</tr>
<tr>
<td>FRASER Bruce</td>
<td>Rodman</td>
<td>General Delivery Faro, Yukon</td>
</tr>
<tr>
<td>Galeski John</td>
<td>P. Geol.</td>
<td>12235 Lake Fraser Way S.E. Calgary</td>
</tr>
<tr>
<td>Galeski Robert</td>
<td>P. Geoph.</td>
<td>R.R.1 Priddis</td>
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