Dear Sir,

A.P. 2037 - Rankin's Prospect
Report for March, 1971

Three percussion holes aggregating 670 feet were drilled to intersect outcropping ironstone lenses containing up to 1% copper and lead. Although sulphide mineralisation was intersected in these holes the base metal content and width were such as to down grade the prospect.

Drilling commenced on the 18th February and was completed on the 24th February. Abbreviated geological logs of the holes are as follows:

**PH NT 17-2**
Bearing $68^\circ$, Angle $70^\circ$

<table>
<thead>
<tr>
<th>Depth</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 160</td>
<td>Hornblende schist containing disseminated (&lt; 5%) magnetite. Cu 52 - 80 ppm, Pb 150 - 300 ppm, Zn 220 - 660 ppm</td>
</tr>
<tr>
<td>175 - 195</td>
<td>Hornblende schist containing disseminated magnetite (&lt; 1%)</td>
</tr>
<tr>
<td>195 - 285</td>
<td>Quartz-felspar gneiss containing lenses of hornblende schist</td>
</tr>
</tbody>
</table>

**PH NT 17-4**
Bearing $131^\circ$, Angle $58^\circ$

<table>
<thead>
<tr>
<th>Depth</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 90</td>
<td>Hornblende schist</td>
</tr>
<tr>
<td>90 - 105</td>
<td>Hornblende schist Cu 30 - 72 ppm, Pb 28 - 40 ppm</td>
</tr>
<tr>
<td>105 - 145</td>
<td>Hornblende schist</td>
</tr>
<tr>
<td>145 - 160</td>
<td>Quartz-felspar gneiss Cu 56 - 110 ppm, Pb 110 - 720 ppm, Zn 140 - 360 ppm</td>
</tr>
<tr>
<td>160 - 195</td>
<td>Quartz-felspar gneiss containing lenses of hornblende schist. Disseminated magnetite and pyrite (&lt; 5% oxide and sulphide)</td>
</tr>
<tr>
<td>195 - 205</td>
<td>Quartz-felspar gneiss</td>
</tr>
</tbody>
</table>
PH NT 17-5  
Bearing 159°, Angle 60° 1390N 085E.

0 - 50  Hornblende schist
50 - 105 Hornblende-biotite schist
105 - 110 Hornblende-biotite schist containing limonite and up to 20% combined magnetite and pyrite
110 - 130 Ironstained hornblende schist containing up to 20% combined magnetite-pyrite-galena-sphalerite
   Cu  270 - 700 ppm
   Pb 1500 -> 1%
   Zn 270 -> 1%
130 - 135 Ironstained hornblende schist containing up to 30% combined pyrite and magnetite.
135 - 190 Hornblende schist exhibiting decreasing sulphide content with depth. Combined pyrite magnetite content ≤ 5%

Check assays on the zone 120 - 130 feet containing greater than 1% base metal yield the following results:

<table>
<thead>
<tr>
<th>Pb%</th>
<th>Zn%</th>
<th>Slope Width</th>
<th>True Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 - 125</td>
<td>3.8</td>
<td>1.6</td>
<td>5 ft.</td>
</tr>
<tr>
<td>125 - 130</td>
<td>1.2</td>
<td>0.8</td>
<td>5 ft.</td>
</tr>
</tbody>
</table>

Average grade is 2.5% Pb and 1.2% Zn over 6.4 ft. true width. These grades are not economic and not encouraging when considered in relation to the other drilling results and local geology.

Analytical results for silver, bismuth and antimony were all low i.e.

- Silver ≤ 15 ppm
- Bismuth ≤ 75 ppm
- Antimony ≤ 25 ppm

Expenditure to the end of February 1971 is $379.00 out of a total of $28,464.00 spent on exploration in the Northern Territory for 1971. This does not include capital equipment and plant needed to service the various projects.

Yours faithfully,

J. H. Hill

J. F. Ivanac  
General Manager

c.c. Inspector of Mines  
Mines Department  
ALICE SPRINGS  N.T.
A.P. 2037: Rankins Reward Project.

All were in hornblende schist and quartz-felspar gneiss.
Small amount of pyrite near bottom of hole.
Small amount of pyrite near bottom of hole.
P.H.5. Bearing 159°, depressed 60°, T.D. 190', coords 1390N 085E.
Traces of pyrite 90' - 110', galena and magnetite 120' - 130', small amounts of pyrite down to 155'. The bottom 25' was in foliated gneiss.
This hole was drilled on a strong magnetic anomaly with galena outcropping on the surface.

Mar. 1971. The holes were drilled to intersect outcropping ironstone lenses containing up to 1% Cu and Pb.
P.H.5. Cu 220 - 700 ppm, Pb 1500 - 710,000 ppm, Zn 270 - 710,000 ppm.
120' - 130' transplanted hornblende schist containing up to 20% combined magnetite - pyrite - galena - sphalerite.

Check assays gave:

<table>
<thead>
<tr>
<th>True Width</th>
<th>Cu</th>
<th>Pb</th>
<th>Zn</th>
</tr>
</thead>
<tbody>
<tr>
<td>120' - 125'</td>
<td>3.2'</td>
<td>3.8%</td>
<td>16%</td>
</tr>
<tr>
<td>125' - 130'</td>
<td>3.2'</td>
<td>12%</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

All analytical results gave <15 ppm Silver, <75 ppm Bismuth, and <25 ppm Antimony.

June 1969. The A.P. is 1 mile wide from ca 1 mile N to ca 5 mile S of the Chloropite Mine.
RANKINS
PROSPECT.

MAGNETOMETRIC SURVEY
SCALE 1" = 100'