ANNUAL AND TERMINAL REPORT ON ADJOINING
EXPLORATION LICENCES E.L. 2362, 4919
TO NOVEMBER, 1986.
PINE CREEK GEOSYNCLINE, N.T.

PASADENA, S.A.

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NORTHERN TERRITORY
GEOLOGICAL SURVEY
CR 87/096
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<td>Leasing Plan. Mt. Ringwood Joint Venture Pine Creek Area, N.T. Scale: 1:250 000</td>
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LOCATION : 1:250 000 Sheet : PINE CREEK : SD52-8
1:100 000 Sheet : BATCHelor : 5171
1:50 000 Sheet : BATCHelor NORTH : 5171N

AUTHOR : S.L. HANCOCK

DATE : APRIL, 1987

1. INTRODUCTION

This report has been compiled to record the general extent of exploration programmes and expenditures incurred on adjoining Exploration Licences 2362 and 4919 in the central Pine Creek Geosyncline, N.T. (Figure 1). Exploration Licence 2362 has been held by W.R. Grace (Australia) Limited since 17 December, 1980 and has been actively explored for gold mineralisation by both W.J. and E.E. Fisher as consultants to W.R. Grace (Australia) Limited until December, 1984 and subsequently by Western Mining Corporation Limited as manager of a Joint Venture including these tenements.

The aim of this report is neither to fully report exploration data gained on these tenements subsequent to our last annual report on E.L. 2362 (Annual Report to 17 December, 1985) and in our first year of exploration activity on E.L. 4919 as these are the subject of a detailed report in compilation, nor to review past exploration on E.L. 2362 which has been fully documented by annual reports on the tenement. This report aims to outline the extent of exploration activities completed on these tenements and expenditures incurred prior to their relinquishment for incorporation into a ministerial reserve.

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2. **EXPLORATION ACTIVITIES**

The area was portion of extensive ground holdings subject to systematic exploration for epigenetic gold mineralisation in units of the Burrell Creek Formation during the 1986 dry season. This integrated programme involved:

a) establishment of a surveyed baseline in the southwestern portion of E.L. 2362 to act as grid control

b) establishment of extensive, pegged topofil and compass gridding over outcropping and shallowly covered Burrell Creek Formation defined by photo-geological interpretation, published mapping and previous reconnaissance. Coverage concentrated on the area of E.Ls 4919 and 2362 south and west of Mt. Ringwood Station and west of 131°23'E. This area was covered, under the criteria above, by 400 m spaced, east-west pegged lines.

c) the grid was soil sampled by -80# x 2 x 20 m composite sampling (one analyte per 40 m as a composite of two samples collected at 20 m along-line intervals) with infill lines between the pegged lines flagged by topofil and compass. Coverage was 200 m spaced east-west lines over the survey area and samples were analysed by solvent-extraction/graphite furnace AAS for gold (1 ppb detection limit, 5 g sample) and arsenic (flame AAS).

d) The gridded area was geologically mapped and these data were combined with photogeological interpretation and ground checking to 1:10 000 scale geological bases for the survey area.

Extensive rock-chip sampling and assaying (Au, As) was completed by geologists during grid mapping.

e) Analytical data from c) above were contoured, ground checked and rated for further evaluation.
3. EXPENDITURE

Exploration expenditure incurred on directly chargeable programmes on E.Ls 2362 and 4919 to November, 1986 for the periods indicated have been summarized on Table 1. The redistribution of general costs to these tenements and the costs of ongoing analytical programmes on samples collected during the 1986 field season will be reported subsequently.

Table 1 : Expenditure Summary, E.Ls 2362, 4919 to November, 1986

<table>
<thead>
<tr>
<th>Item</th>
<th>E.L.2362 24/12/85 - 4/11/86</th>
<th>E.L.4919 20/7/86* - 4/11/86</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geological</td>
<td>$40,632</td>
<td>$505</td>
<td>$41,137</td>
</tr>
<tr>
<td>Geophysical</td>
<td>1,338</td>
<td>-</td>
<td>1,338</td>
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<tr>
<td>Geochemical</td>
<td>6,278</td>
<td>542</td>
<td>6,820</td>
</tr>
<tr>
<td>Drafting</td>
<td>7,897</td>
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<td>7,897</td>
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<tr>
<td>Analytical</td>
<td>47,593</td>
<td>-</td>
<td>47,593</td>
</tr>
<tr>
<td>Administration</td>
<td>1,028</td>
<td>-</td>
<td>1,028</td>
</tr>
<tr>
<td>Surveying</td>
<td>4,626</td>
<td>-</td>
<td>4,626</td>
</tr>
<tr>
<td>Leasing</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>$109,392</strong></td>
<td><strong>$1,047</strong></td>
<td><strong>$110,439</strong></td>
</tr>
</tbody>
</table>

* Date E.L.4919 granted.

The disparity in operating costs reflects assignment of field costs to the larger area (E.L. 2362) and a more appropriate measure of expenditure would be that included as the Total column of Table 1 (i.e. gross ($110,439)).