ANNUAL REPORT ON EXPLORATION OVER EL 1295,

RUM JUNGLE AREA

NORTHERN TERRITORY

Covering the Period

3 May 1978 to 2 May 1979

OPEN FILL

PERTH

JUNE 1979
TABLE OF CONTENTS:

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMMARY</td>
<td>i</td>
</tr>
<tr>
<td>TABLE OF CONTENTS</td>
<td>ii</td>
</tr>
<tr>
<td>LIST OF FIGURES</td>
<td></td>
</tr>
<tr>
<td>1. INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>2. LOCATION</td>
<td>1</td>
</tr>
<tr>
<td>3. GEOLOGY</td>
<td>1</td>
</tr>
<tr>
<td>4. INVESTIGATIONS AND RESULTS</td>
<td>3</td>
</tr>
<tr>
<td>5. FUTURE PROGRAMME</td>
<td>3</td>
</tr>
<tr>
<td>5.1. Gridding</td>
<td>3</td>
</tr>
<tr>
<td>5.2. Geological Mapping</td>
<td>3</td>
</tr>
<tr>
<td>5.3. Drilling</td>
<td>3</td>
</tr>
<tr>
<td>6. STATEMENT OF EXPENDITURE</td>
<td>4</td>
</tr>
<tr>
<td>7. OTHER DETAILS</td>
<td>4</td>
</tr>
<tr>
<td>7.1. Personnel</td>
<td>4</td>
</tr>
<tr>
<td>7.2. Instruments</td>
<td>4</td>
</tr>
<tr>
<td>7.3. Vehicles and Equipment</td>
<td>4</td>
</tr>
</tbody>
</table>

LIST OF FIGURES:

FIGURE 1: Tenement Relinquishment and Retention Map.
SUMMARY:

EL 1295 is one of four contiguous exploration licences held by the MINAD-UAL joint venture which is exploring for veinlike-type uranium deposits and possible economic base metal deposits in Lower Proterozoic sediments flanking the Waterhouse Complex.

No field-work was conducted during the second year of tenure because more prospective ground was located on another tenement in the joint venture which necessitated more thorough work.

A statement of expenditure is included along with a preliminary programme for the third year of tenure.
1. **INTRODUCTION:**

EL 1295 was granted to Mines Administration Pty. Ltd. (MINAD) on 3 May 1977. The original area held was 12.56 square miles (32.53 km²) but this has now been reduced to 6.43 square miles (16.64 km²). It is one of four contiguous exploration licences (Fig. 1).

On 2 December 1977, MINAD signed a joint venture with Uranerz Australia Pty. Ltd. (UAL) which was later approved by the Northern Territory Mines Branch.

UAL is the operator and has a regional office in Darwin and field quarters at Camp Creek Station. This is the second annual report on all operations carried out by the joint venture complying with the Mining Ordinance under Section 38 0 (3). The tenement has been renewed for the third year of tenure.

2. **LOCATION:**

EL 1295 is approximately located near the co-ordinates 13°01' S latitude and 130°58' E longitude about 2.4 km southwest of the Rum Jungle Railway Siding which is 75 km south of Darwin.

The tenement lies on the PINE CREEK 1:250,000 Sheet and more specifically within the 1:50,000 sheets SD 52-8 (5071-I; 5171-IV).

3. **GEOLOGY:**

The Rum Jungle area lies in the western part of the Pine Creek Geosyncline. The oldest rocks in the area are considered to be Archaean basement inliers of the Rum Jungle and Waterhouse Complexes. These are unconformably overlain by the Lower Proterozoic Batchelor Group consisting of four formations: Beestons Formation, Celia Dolomite, Crater Formation and the Coomalie Dolomite. The overlying unit, the Namoona Group is represented by the Masson Formation which is composed mainly of carbonaceous sediments and hosts the known uranium and base metal mineralization.
The sediments generally have a regional north-trending strike but those surrounding the Rum Jungle and Waterhouse Complexes strike concentrically with dips varying from 40° - 65° with a synclinal development between the complexes. The granites and surrounding sediments are interpreted as warped domal structures.

An important structural feature is the Giants Reef Fault. It laterally displaces a wedge-shaped mass of Lower Proterozoic sediments containing part of the intergranite syncline, which now embays the western margin of the Rum Jungle Complex.

The exploration programme is focused on veinlike-type uranium deposits and economic concentrations of base metals.

4. INVESTIGATIONS AND RESULTS:

No field-work was conducted on this tenement during the second year of tenure. Exploration activity concentrated mainly on EL's 1297 and 1298.

5. FUTURE PROGRAMME:

5.1. Gridding:

A baseline will be surveyed to link EL's 1295 and 1296 with previously established grids. This work will be contracted to Geoex Nominees Pty. Ltd. of Perth.

5.2. Geological Mapping:

Geological mapping accompanied by a radiometric survey will be conducted over the grid to establish areas of interest.

5.3. Drilling:

Systematic auger or percussion drilling on the grid will be carried out over the areas of interest. All holes will be radiometrically logged.
6. **STATEMENT OF EXPENDITURE:**

The following is the statement of expenditure for EL 1295 covering the period 3 May 1978 to 2 May 1979.

Salaries and wages ----------------------------- $ 6,219.04

Drilling Contractor ----------------------------- nil

Field operating costs including consumables, rents, vehicle operating and repairs, airfares, freight, etc ----------------------------- 5,954.54

Depreciation of vehicles and geophysical instruments, consultants fees, management and distribution of Head Office costs ----------------------------- 1,582.57

$ 13,756.15

7. **OTHER DETAILS:**

7.1. **Personnel:**

Supervising Geologist ----------- J.A. Earthrowl
Geologist-in-Charge ----------- A.J. Drummond
Secretary ------------------------ G. Billing

7.2. **Instruments:**

1 SRAT SPP2 scintillometer.
1 Scintrex GAM-I spectrometer.

7.3. **Vehicles and Equipment:**

1 Toyota diesel four-wheel-drive.
1 Suzuki four-wheel-drive.