FIRST AND FINAL REPORT

ON

EXPLORATION LICENCE NO. 2670

ALICE SPRINGS, NORTHERN TERRITORY

OPEN FILE

Covering the Period

12 December, 1980 to 11 December, 1981
SUMMARY:

The tenement is one of several EL's covering the Missionary Syncline being worked in a joint venture between UAL and CEC.

During the first year of tenure, a broad based sedimentological study covering all tenements in the project area showed that the area covered by EL 2670 was not prospective and the licence was allowed to lapse at the end of the first year.
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FIGURE I : 230D61 : Tenements.
1. **INTRODUCTION:**

EL 2670 is one of a group of exploration licences held by Uranerz Australia Pty. Ltd. (UAL) in the Alice Springs area, and was granted on 12 December 1980. It covers an area of 5.20 square miles (13.47 km²).

The tenements are worked in a 50:50 joint venture with Carpentaria Exploration Company (CEC): UAL is the operator and has a regional office and warehouse facilities at Alice Springs. This is the first and final report on operations carried out by the joint venture partners over EL 2670.

2. **LOCATION:**

EL 2670 is situated about 15 km south of Alice Springs on the ALICE SPRINGS 1:250,000 Sheet SF 53-14 and is centered on latitude 23°52'S and longitude 133°52'E (Fig. 1).

3. **GEOLOGY:**

EL 2670 covers part of the Devonian sequence of sandstones that form the Undandita Member of the Pertnjara Group within the Missionary Syncline which is located along the northern margin of the Amadeus Basin.

The Undandita Member sandstone was deposited in a fluvial, braided channel environment and contains a regionally reduced tongue of sandstone over a distance of 70 km in the generally oxidized Undandita Member sandstone. The redox boundary is observed as a colour change from the red-coloured oxidized sandstone to the grey colour of the reduced sandstones.
4. INVESTIGATIONS AND RESULTS:

The licence area was previously held by Agip Nucleare Australia Pty. Ltd., (AGIP) as EL 1420, and worked by them in conjunction with other tenements to the west. Exploration activities included the drilling of 8 percussion holes (ALP 1-8) by AGIP within the licence area.

Operations carried out by UAL included a review of all previous work and a broad based regional sedimentological study covering all of UAL's tenements in the project area.

The study, comprising a high resolution seismic survey, hydrogeochemical and photogeological studies, trenching and outcrop mapping, and the relogging of all AGIP and UAL percussion and diamond holes was undertaken to improve understanding of the sedimentary history with associated redox and mineralizing processes of the northern part of the Amadeus Basin.

Most of the field work was carried out on other tenements within the project area; the results showed that the area covered by EL 2670 was not prospective and the tenement was relinquished on the anniversary date.

5. STATEMENT OF EXPENDITURE:

EL 2670, covering the period 12 December, 1980 to 11 December, 1981.

Salaries and wages ------------------------ 2,745
Drilling contractors ----------------------- nil
Field operating costs including consumables, vehicle operating and repairs, airfares, freight, etc. ------------------------ 3,256
Depreciation of vehicles and geophysical equipment, consultant fees, management and distribution of Head Office costs -------- 780

$6,781

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6. OTHER DETAILS:

6.1 Personnel:

Chief Geologist---------------------- J. Borshoff
Regional Geologist------------------ K. Ferguson
Project Geologist------------------- M. Tylich
Geologist--------------------------- I. Faris
Geologist--------------------------- P. Leaman
Geologist--------------------------- B. Wygrala
Field Supervisor--------------------- J. Wilkie

6.2 Instruments:

6 SRAT SPP.2 scintillometers Nos: 1103, 1105, 1418, 1501, 1505, 2399.
1 Radon monitor, Serial No: 005.
1 GAM-1 spectrometer No: 506078.
1 Theodolite No: 97082.
1 EDA radon detector No: R200.

6.3 Vehicles and Equipment:

4 Toyota Hilux.
4 Toyotas.
1 Caravan.