ANNUAL REPORT
ON
EXPLORATION LICENCE NO. 2164
ALICE SPRINGS
NORTHERN TERRITORY

OPEN FILE

Covering the Period
16 October 1981 to 15 October 1982

IMAGED

PERTH
NOVEMBER, 1982

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SUMMARY

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

Exploration activity during the year was confined mainly to other tenements in the project area, although some geological mapping was carried out in the Nonouba area.

The area was halved to 58 blocks for the fourth year of tenure.
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Figure 1 : 230D61 : Tenements
1. **INTRODUCTION**

EL 2164 covers the western section of a group of exploration licences held by Uranerz Australia Pty Ltd (UAL) in the Alice Springs area and was granted on 16 October 1979. The licence area for the third year of tenure comprised 116 blocks (363.08 km²) and includes areas previously held under EL's 979, 1001 and 1062. To conform to the Mining Act the area will be further reduced for the fourth year to cover 58 blocks (187 km²).

On 18 November, 1977 UAL signed a 50:50 joint venture with Carpentaria Exploration Company (CEC) which was approved by the Mines Branch on 30 November, 1977.

UAL is the operator and has a regional office in Alice Springs. This is the third annual report on exploration operations carried out by the joint venture partners over EL 2164.

2. **LOCATION**

EL 2164 is situated approximately 70 km southwest of Alice Springs on the HERMANNSBURG and HENBURY 1:250,000 Sheets SF 53-13 and SG 53-1 (Fig. 1).

3. **GEOLOGY**

EL 2164 covers part of the Devonian sequence of sandstones that form part of the Undandita Member of the PERTNJARA Group within the Missionary Syncline which is located along the northern margin of the Amadeus Basin.
The host rock of the uranium mineralization is the Undandita Member sandstone, part of the Devonian-Carboniferous Brewer Conglomerate, a molasse deposit derived from Lower Proterozoic Arunta basement and later marine sediments along the northern margin of the Amadeus Basin during the Alice Springs Orogeny. The sediment was deposited in a braided channel, fluviatile environment.

4. INVESTIGATIONS AND RESULTS

4.1 Sedimentology

Geological mapping and field checking were carried out over the Nonouba and Daria areas in conjunction with the detailed survey over the Angela ore zone.
5. **STATEMENT OF EXPENDITURE**

5.1 **EL 2164**

Covering the period 16 October 1981 to 15 October 1982

Salaries and Wages -----------------------------29,123

Drilling Contractor -----------------------------26,397

Field operating costs including consumables, rents, vehicle operating and repairs, airfares, freight, etc. -----------------------------23,418

Depreciation of vehicles and geophysical instruments, consultants fees, management and distribution of Head Office costs -----------------------------10,262

$89,200

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6. TECHNICAL DETAILS

6.1 Personnel

Chief Geologist ------------------------ J. Borshoff
Regional Geologist ------------------ K. Ferguson
Project Geologist ------------------- J. Fiala
Geologist --------------------------- B. Wygrala
Senior Field Assistant -------------- G. Boyce

6.2 Instruments

4 SRAT SPP.2 Scintillometers
1 Radon Monitor
1 EDA Radon Meter
1 GAM-1 Spectrometer
1 Computerm Data Logger
1 Micron Stereomicroscope

6.3 Vehicles and Equipment

1 HJ47 Toyota Landcruiser
2 Hilux Toyota 4 x 4 utilities
1 Ford F100 (logger truck - Mt. Sopris 3000)