

URANERZ AUSTRALIA PTY. LTD.

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ANNUAL REPORT
ON
EXPLORATION LICENCES 2570 AND 2571
ALICE SPRINGS
NORTHERN TERRITORY

Covering the Period
12 December 1981 to 11 December 1982

Compiled
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PERTH

DECEMBER, 1982

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SUMMARY

EL's 2570 and 2571 are among several EL's covering the Missionary Syncline being worked in a joint venture between UAL and CEC.

Exploration acitivity during 1982 in the project area comprised a re-evaluation and reinterpretation of all data over the Angela deposit in order to gain greater understanding of the sedimentological controls of uranium deposition. The results were then applied to the drillhole data from other anomalous areas in the project area.

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Figure 1 : 230D77 : Tenements

1. INTRODUCTION

EL's 2570 and 2571 are among a group of exploration licences held by Uranerz Australia Pty Ltd (UAL) in the Alice Springs area. They were granted on 12 December 1980 with areas of 51 blocks (153.24 km²) and 10 blocks (22.08 km²) respectively.

The tenements are worked in a joint venture partnership with Carpentaria Exploration Company (CEC); UAL being the operator, with a regional office at Alice Springs. This is the second annual report on exploration operations. In accordance with the Mining Act the tenements were halved at the end of the second year.

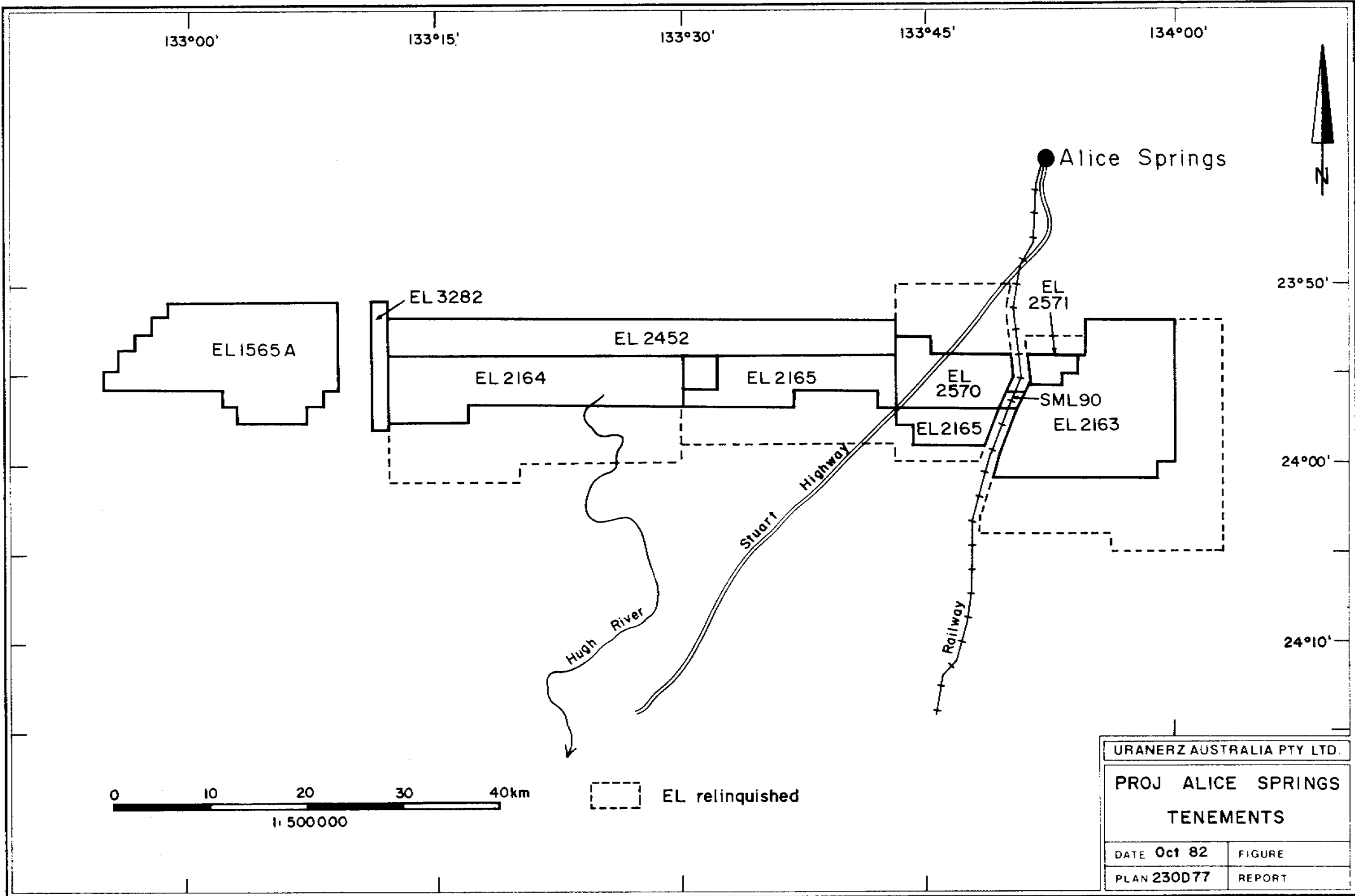
2. LOCATION

The tenements are situated approximately 18 km south of Alice Springs on the ALICE SPRINGS 1:250,000 Sheet SF 53-14 and are centered on latitude 23⁰54'S and longitude 133⁰48'E (Fig. 1).

3. GEOLOGY

The tenements cover 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 sandstone.



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**PROJ ALICE SPRINGS
TENEMENTS**

DATE Oct 82	FIGURE
PLAN 230D77	REPORT

4. INVESTIGATION AND RESULTS

Exploration on these tenements during the second year was confined to data studies as part of a re-evaluation and update of interpretation of data from the whole of the Alice Springs Project area. This primarily involved drillhole data both from sample logging and downhole geophysical logging. Emphasis was put on relogging of diamond drill core to clearly establish sedimentary features and environments within the framework of the Missionary Syncline, and in detail in specific prospect areas within the regional framework. This provided control for re-examination of percussion hole logs and downhole electric logs which were a major part of the sedimentological studies. A detailed delineation of ore grade distribution down the hole, has been applied in parallel with the sedimentological studies to help relate ore forms to possible controls.

Sedimentary features were then related to the distribution of redox features and uranium mineralization in the Undandita sandstone to better establish sedimentary controls on ore forming processes and their degree of importance. These controls have been established in the most explored parts of the Project area (in EL 2163). The information gained there has been, and is being extrapolated into the other parts of the area in relation to the changing sedimentary environment at particular levels in the sedimentary sequence, of the potential of these areas. This in turn is providing the basis for more stringently controlled drilling (and other exploration) programmes to be formulated for specific prospects throughout the Project area.

In EL 2570 data studies were concentrated in the Mitimba area where despite a low drillhole density and lack of coring, features indicate similarities to, and a possible extension of the mineralized Angela Zone. Cored holes have been logged and results are presently being evaluated.

In EL 2571 studies were confined to drillholes intersecting the downdip extension of the Pamela mineralized zone. This feature is defined by a number of redox traps occupying the northern 'wedge-out' of the regionally developed reduced zone in the Undandita Sandstone. The zone is marginal to the Angela Zone and probably extends west at depth into EL 2570.

5. STATEMENT OF EXPENDITURE5.1 EL 2570

Covering the Period
12 December 1981 to 11 December 1982

Salaries and Wages -----4,409

Drilling Contractor ----- Nil

Field operating costs including
consumables, rents, vehicle operating
and repairs, airfares, freight etc.-----3,363

Depreciation of vehicles and geophysical
instruments, consultants fees, management
and distribution of Head Office costs -----1,010

\$8,782

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5.2 EL 2571

Covering the Period
12 December 1981 to 11 December 1982

Salaries and Wages -----4,548

Drilling Contractor ----- Nil

Field operating costs including
consumables, rents, vehicle
operating and repairs, airfares,
freight etc. -----3,019

Depreciation of vehicles and
Geophysical instruments, consultants
fees, management and distribution
of Head Office costs ----- 984

\$8,551
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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 Nicron 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)