ANNUAL REPORT
E.L. 2458 (AREA RETAINED)
CAROLINA (PROJECT 859)
PERIOD ENDING 17/7/82

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CR82/313
1. INTRODUCTION

Field work for the quarter was confined to the McGuinness area of the E.L. for this exercise. Two geologists and one field assistant, were employed as required.

2. TENEMENT

The northern half of the Carolina E.L. was relinquished on 17/7/82. No work was carried out in this northern section due to the unsuitable geological setting for the use of the model being employed in the search for uranium in the region.

3. ACTIVITIES AND RESULTS

a) **GRIDDING**

A grid of 20 line km with 400m line spacings, along a 3.6km baseline was put down at 045° magnetic. The grid parallels trace of the McGuinness Fault.

b) **GROUND MAGNETICS**

A ground magnetic survey was conducted over the McGuinness Grid. Magnetic readings were taken at 25m intervals. The results were corrected for diurnal variations and dispatched to a consultant geophysicist for detailed interpretation.

c) **GROUND RADIOMETRICS**

Ground radiometrics were recorded at 50m intervals over the McGuinness Grid, but no anomalous values were recorded.

d) **RADON_SOIL_SURVEY**

A radon soil survey was conducted over the McGuinness grid at 50m intervals in areas of no-outcrop. No anomalous results were obtained.

\(e)\) **MAPPING**

Eight Kratos trenches at the McGuinness Uranium Prospect
QUATERNARY

UNDIFFERENTIATED

LOWER (?) CRETACEOUS

LOWER PROTEROZOIC

Wollagorang Formation
Settlement Creek Volcanics
Aquarium Formation
Sly Creek Sandstone
McDermott Formation
Peters Creek Volcanics
Carolina Sandstone Member
Westmoreland Conglomerate

GEOLOGY after B.M.R., 1963
CALVERT HILLS, SE 53-8

AFMECO PROJECT 2458
NORTHERN TERRITORY

Area to be retained upon renewal
were inspected and a geological map prepared.

Several geological traverses were made to the north of the McGuinness Prospect to investigate the nature of the Carolina Sandstones and its relationship to the Seigal Volcanics in the hope of locating a suitable environment for uranium mineralization.

A geological map is in the process of being compiled from geological traverses and detailed aerial photographic interpretation of the southern half of E.L. 2458.

f) SAMPLING

Thirty-two (32) rock chip samples were dispatched to Australian Laboratory Services in Brisbane for geochemical analyses of U, Cu, Pb, Zn, Ag, Au, Sn, W and Co. High Cu values (16.5% to 19.5%) with elevated Ag values (34 to 60ppm) were obtained from three samples taken from an abandoned Cu mine on the McGuinness Fault. High U values (1.73% to 2.45%) were obtained from two samples several metres to the south of the Kratos trenches at the McGuinness Prospect. However, it is highly probable that these samples have been removed to this prospect from one of the nearby U prospects outside the Carolina EL. All other analytical results were disappointing.

Eleven (11) rock chip samples were sent to Central Mineralogical Services in Adelaide for petrological examination.

4. PLANNED ACTIVITIES

a) Drilling

Approximately 800m of percussion/diamond drilling is planned in the McGuinness Fault area covered by magnetic, radiometric and soil radon surveys. The drilling program is designed to investigate the possibility of dyke infilling of the McGuinness Fault with associated uranium mineralization in the Westmoreland Conglomerate or Carolina Sandstone.

b) Sampling

Percussion chip and diamond core samples with elevated
radiometrics and/or from brecciated zones will be analysed for U, Cu, Pb, Zn, Au, Ag, Sn, W and Co.
**URANGESSELLSCHAFT AUSTRALIA PTY. LIMITED**

**EXPENDITURE STATEMENT**

**FOR YEAR ENDED 17.07.1982**

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**TOTAL** | A$ 10,996 |

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