CONTENTS

INTRODUCTION.................................................(1)

GEOLOGY.....................................................(1)

WORK COMPLETED............................................(1)

RESULTS.....................................................(2)

EXPENDITURE DETAILS....................................(2)

LIST OF FIGURES

FIG.1......................................................Location Map

FIG.2......................................................E.Ls. 1450 and 1451. Reference Map. 1978/79 Exploration Program
INTRODUCTION

The Licence was granted on August 8, 1978. E.L.1451 is situated in the Hale River 1:250,000 map sheet area and was considered to be prospective for roll front uranium mineralisation. No anomalies were recorded in the course of an initial airborne spectrometer traverse over the Licence area, and a different approach involving 'Track Etch' alpha monitoring of soil air was therefore proposed.

Studies of the prospective host formation for uranium, the Brewer Conglomerate, in the Alice Springs area, indicates that the sandstone facies acts as host for the uranium.

Photogeological study and aerial reconnaissance have indicated that the only facies represented in the Licence area is the conglomerate. There appears to be no potential for uranium or other forms of mineralisation, within the Licence area. The Track Etch program was therefore cancelled and no other groundwork was carried out.

GEOLOGY

The Licence area is located on the northwest margin of the Simpson Desert, and is underlain by an almost flatlying sequence of the Devonian/Carboniferous Brewer Conglomerate, which forms part of the Amadeus Basin sequence.

Outcrops viewed in the course of aerial reconnaissance consisted entirely of a coarse boulder conglomerate. These outcrops are widely distributed throughout the Licence area and there is therefore little likelihood of the relatively poorly exposed sandstone facies being represented.

Cenozoic cover rocks consist predominantly of Quaternary aeolian and alluvial sand.

WORK COMPLETED

This has included preparation of a photomap, which shows details of geology. An airborne spectrometer traverse was flown over the Licence area. (Refer Fig.2) Outcrops of Brewer Conglomerate in the area south of Alice Springs were visited and evaluated using a scintillometer, with the object of determining the nature of the uranium host rocks in this area, and by inference in the Licence area.
RESULTS

No radiometric anomalies were recorded from the spectrometer traverse. Inspection of outcrops of Brewer Conglomerate, south of Alice Springs indicates that the poorly exposed sandstone facies, (Undandita Member), is markedly more radioactive than the conglomerate facies, and is reliably reported to be the host for uraninite mineralisation in this area.

EXPENDITURE DETAILS

**FIRST TERM** (August, '78 - February, '79)

- Salaries and Wages: $200
- Field Travel: 50
- Helicopter Time: 500
- Instrument Hire: 200
- Field Supplies: 100
- Field Office and Administration: 50
- Maps and Drafting: 200

Total: 1400

- Head Office Overheads: 450

Total: 1850

**SECOND TERM** (February, '79 - August, '79)

- Salaries and Wages: 400
- Field Travel: 200
- Maps and Drafting: 300
- Field Supplies: 50
- Licence fees: 120

Total: 1070

- Head Office Overheads: 350

Total: 1420