## Aberfoyle Resources Limited

A.C.N. 004 664 108

**Exploration Division** 

#### EXPLORATION LICENCE 9146

'DESERT BORE' (Alcoota and Napperby 1:250 000 sheets)

# ANNUAL REPORT ON EXPLORATION FOR THE YEAR ENDED 15 AUGUST 1998

Distribution:

Aberfoyle Resources Ltd, Perth

Dept Mines and Energy, Darwin

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### **FIGURES**

Plate No	Description	Scale
DSB 005	EL 9146 Desert Bore-Location Plan	1:250 000
DSB 002	EL 9146 Desert Bore Summary Plan	1:50 000

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#### 1. SUMMARY

Aberfoyle Resources is exploring the gold potential of EL 9146 with the Early Proterozoic sequences present on the licence seen as being potential host rocks for mineralisation of the type developed to the west in the Granites/Tanami. Existing deposits within the Granites/Tanami inlier are often immediately associated with magnetic anomalies and as such our exploration is directed towards the testing of magnetic features. Several such magnetic anomalies occur on EL 9146 and are targeted for exploration. The prospectivity of the area is enhanced by encouraging recent exploration results achieved by PosGold Limited at the Sabre prospect located along geological/structural strike in the Reynolds Ranges, to the west of EL 9146.

Work by Aberfoyle in the 12 months to 15/8/98 has included a review of previous exploration in the licence region..

Several magnetic anomalies have been identified and further exploration is warranted. It is proposed that a programme of RAB/Aircore drilling be carried out at particular areas of interest across these anomalies. Previous drilling by Aberfoyle to obtain regolith information in June 1996 showed that Quaternary cover is various between 12 and greater than 38 metres in the central portions of EL 9146.

#### 2. INTRODUCTION

#### 2.1. Location and Access

EL 9146 'Desert Bore' is located to the east of the settlement of Aileron, approximately 150 kilometres to the north of Alice Springs. The licence falls on the Alcoota and Napperby 1:250 000 map sheets (Plate DSB 005), occurring on the Aileron and Pine Hill Station Pastoral Leases. Access is via the Stuart Highway, by heading east. Access to the southern boundary of EL 9146 may be gained by travelling approximately 19km east from Aileron. Alternatively EL 9146 may be accessed by travelling approximately 9km from the Stuart Highway along a track east of Mt Boothby.

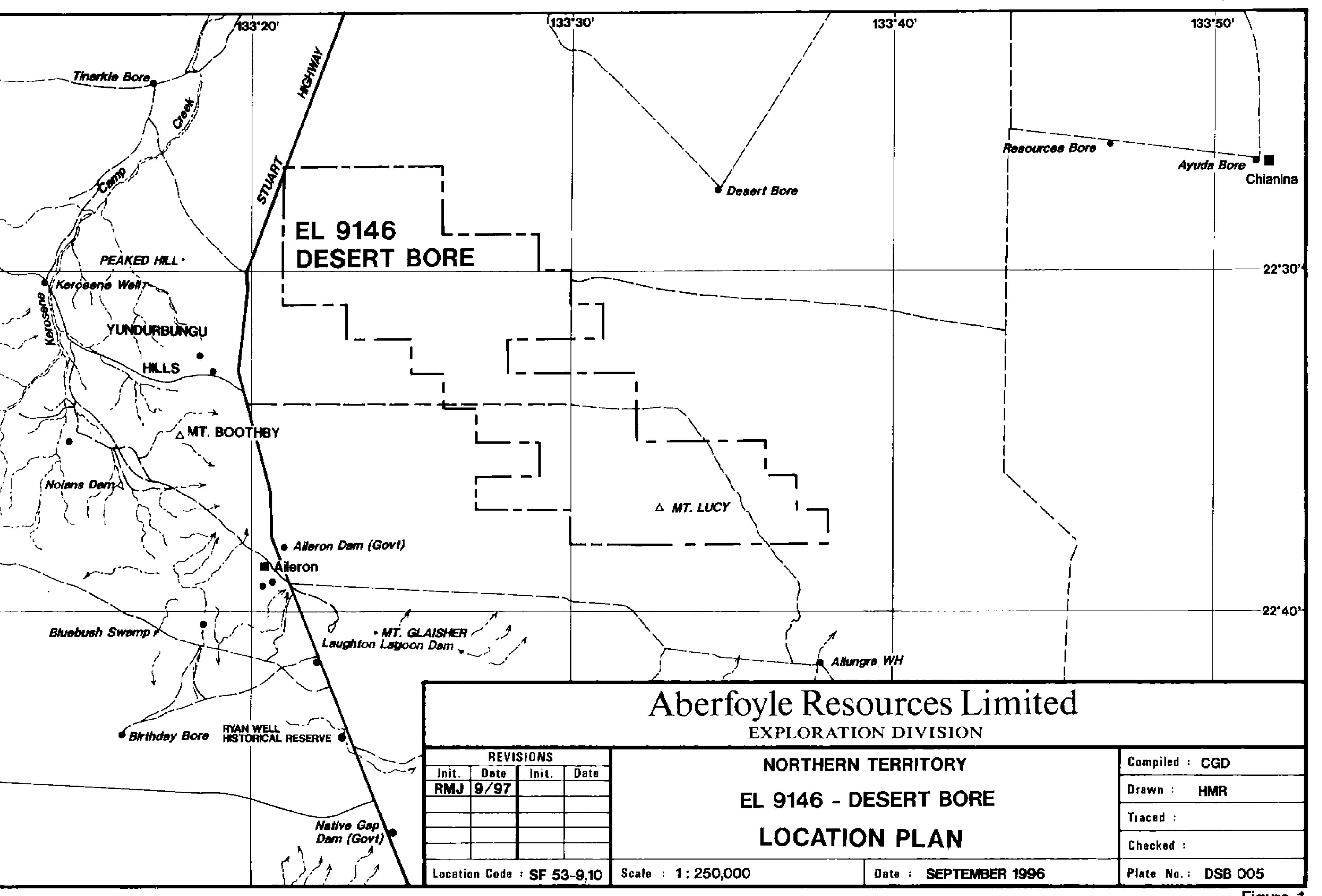
#### 2.2. TENURE

EL 9146 'Desert Bore' (initially 477 square kilometres) was granted to Aberfoyle Resources Limited on 16 August 1995 for a period of six years.

Initially, Aberfoyle had applied for a larger area than that which now forms EL 9146. The application was amended following the recognition that large areas of the Early Proterozoic target stratigraphy in the original area were overlain by considerable thicknesses of Cainozoic cover. The thickness of this cover, often exceeding 100m, would preclude the use of cost effective exploration and future mining techniques.

A 50% tenement reduction was completed at the second tenement anniversary, with 74 blocks surrendered, and a further 50% reduction was completed at the third tenement anniversary, with 37 blocks surrendered.

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#### 3. WORK COMPLETED

#### 3.1. Previous Work

Work in the first two years of tenure included:

- Imaging of regional public domain aeromagnetic datasets.
- The application and subsequent granting of an AAPA Authority Certificate detailing the locations of sites of Aboriginal significance within the EL.
- The collection of ground magnetic anomalies along three existing station tracks which traverse airborne magnetic anomalies.
- Reconnaissance RAB drilling (6 holes/299 metres).
- Recognition that area within the EL may be covered by considerable thicknesses of Cainozoic sediments prompted Aberfoyle to alter its first year approach to exploration. Instead of flying a high resolution airborne magnetic survey to accurately locate magnetic anomalies on the EL prior to geochemical testing it was decided to first gather some widely spaced regolith information using RAB drilling. Essentially this was to determine the depth of Cainozoic cover above poorly defined magnetic trends, before committing funds to the airborne magnetic survey. Drilling was completed and indicates Cainozoic cover is not prohibitively thick.
- Airborne magnetic and radiometric survey over EL 9146.

# 3.2. Work by Aberfoyle in the 12 months to 15/8/98

Has involved reviewing previous exploration data from the licence area and surrounding region.

#### 4. EXPENDITURE

Excluding tenement rentals, Aberfoyle Resources expended a total of \$8,938.79 on exploration of EL 9146 in the second year of tenure. A breakdown of expenditure is shown below.

# ABERFOYLE RESOURCES LIMITED EXPLORATION DIVISION

#### EXPLORATION LICENCE 9146 'DESERT BORE'

# SUMMARY OF EXPENDITURE FOR THE YEAR ENDED AUGUST 1998

GEOLOGY	\$7,325.50
OTHER SERVICES	\$745.00
ADMINISTRATION	\$868.29
TOTAL	\$8,938.79

#### 5. PROPOSED PROGRAMME

With the acquisition of suitably detailed aeromagnetic data Aberfoyle's programme of exploration will concentrate upon the geochemical sampling of magnetic features and their environs located within EL 9146. The high magnitude magnetic feature located in the centre of EL 9146 will be targeted for geochemical coverage. Selected, attractive features within this magnetic anomaly will be more accurately located by reading ground magnetic traverses, the ground data modelled and the magnetic bodies tested. It is recommended that RAB/Aircore drilling is employed since Quaternary cover is likely to preclude effective surface sampling.

The estimated costing of this programme is as follows:

Ground Magnetic Surveying \$2 000

Access \$1 500

RAB/Aircore drilling, geochemical sampling

and assaying as appropriate \$45 000

Total \$48 500

