

**ALJAWARRA PROJECT**  
**EXPLORATION LICENCE 22506**  
**ANNUAL REPORT FOR THE**  
**PERIOD OF 23 MAY 02 TO 22 MAY 03**

# DE BEERS

A DIAMOND IS FOREVER

**PROJECT:** ALJAWARRA PROJECT EL22506  
**TITLE:** ALJAWARRA PROJECT  
EXPLORATION LICENCE 22506  
ANNUAL REPORT FOR THE  
PERIOD OF 23 MAY 02 TO 22 MAY 03

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**1:250,000 Sheet Name/s & No/s:** Sandover River (SF53-08)

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**KEYWORDS:** NT, aerial magnetic surveys.

**ABSTRACT:**

Diamond exploration conducted by De Beers Australia Exploration Limited over exploration licence 22506 involved the interpretation of the NTGS 1999 Elkedra survey, the infill of this survey from 400 m to 200 m line spaced data over this tenement, and the subsequent reinterpretation of the data. A field visit was made to the licence to assess the area. Covenants were met for this licence.

**COPY TO:** NTDME, CLC, IC

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## SUMMARY

Exploration Licence: 22506  
Date Granted: 23/05/02  
Total Area: 488 Blocks (1,562 km<sup>2</sup>)  
Managing and Registered Co. : De Beers Australia Exploration Limited  
Commodities Sought: Diamonds

### Exploration:

Diamond exploration conducted by De Beers Australia Exploration Limited over the Aljawarra project area involved the interpretation of regional government magnetic data and a field visit and inspection.

A regional airborne magnetic survey comprising 26,173 line km was flown over almost the entire project area in 2002 infilling government data from 400 m to 200 m line spacing. 4,494 of these line kms were within EL22506.

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## 1. INTRODUCTION

Exploration licence EL22506 lies within the Aljawarra Project in the Northern Territory. The licence is located on the Sandover River 1:250 K mapsheet, within the Georgina Basin.

The NTGS Elkedra Survey (made publicly available in 1999) covers the exploration licence. No anomalies of interest were chosen on EL22506.

In July 2002, areas of the Elkedra survey, and other NTGS surveys, seen to be magnetically quiet and within DBAE tenements, were infilled from 400 m to 200 m line spacing (N/S). A total of 26,173 line kms were flown within the Aljawarra project. 4,494 of these line kms were flown within EL22506. When interpreted, these new data yielded no anomalies worthy of geophysical follow up within the EL22506.

## 2. TENURE

Tenure details for EL22506 are outlined in Table 1 and the location of the licence is displayed in Map 1.

**TABLE 1: TENURE DETAILS**

TENEMENT	GRANT DATE	EXPIRY DATE	AREA (KM2)	BLOCKS	COMMIT	EXP
EL22506	23/05/2002	22/05/2008	1562	488	\$50,000	\$64,120

De Beers Australia Exploration Limited is the sole managing and registered company for the exploration licences.

## 3. ABORIGINAL WORK AREA CLEARANCE AND LIAISON

The ground which is the subject of EL22506 is also subject to Native Title claim DC01/61. The claimants are represented by the CLC. Soon after the application for EL22506 was lodged the claimants lodged an objection and negotiations began with the CLC. Negotiations were positive and progressed to such a stage that the CLC withdrew their objection and the tenement was granted on the 23 May 02. Unfortunately, a few delays occurred and an Exploration Agreement was only signed by all parties in May 2003; subsequently a clearance survey has been undertaken and was completed in June 03. The way is now clear for ground exploration to commence in June 03.

## 4. GEOLOGY

The Aljawarra Block forms part of the North Australian Craton, with an assumed basement age, based on tectonic models and zircon inheritance, to be 3+Ga (Archaean). The block is covered by Cambrian and Ordovician sediments of the southeastern section of the Georgina Basin. The basement is considered to consist of a composite terrain of amalgamated continental blocks possibly accreted at least 1800Mya; the Aljawarra craton is believed to be an older nucleus of Palaeoproterozoic or Archaean

age. Skippy seismic data suggests an anomalously thick lithosphere – some 200 km. The basement is also characterised by relatively low heat flow and low crustal temperatures consistent with the presence of thick cratonic style lithosphere.

## **5. EXPLORATION ACTIVITIES**

Diamond exploration conducted by De Beers Australia Exploration Limited over the Aljawarra project area involved the interpretation of regional government magnetic data and a field visit and inspection.

A regional airborne magnetic survey comprising 26,173 line km was flown over almost the entire project area in 2002 infilling government data from 400 m to 200 m line spacing. 4,494 of these line kms were within EL22506.

### **5.1 Aeromagnetic Anomalies Investigation**

Exploration activities have been entirely geophysical. This has involved:

- a) The initial interpretation of the NTGS 1999 Eromanga survey.
- b) Infill flying of the Eromanga survey from 400 m line spacing to 200 m line spacing. This comprised 4,494 line km over EL22506.
- c) The reinterpretation of the now 200 m line spaced data over EL22506.

### **5.2 Results**

No anomalies of interest were selected over EL22506 from either the original 400 m line spaced data, or from the newly infilled 200 m line spaced data.

### **5.3 Field Visit**

A field visit was made to tenement EL22506 to assess the terrain and surface geology, in order to determine the suitability of the area to aeromagnetic surveys and future sampling programmes.

### **5.4 Expenditure**

Expenditure from De Beers Australia Exploration Limited for the first year of tenure of exploration licence EL22506 totalled \$64,120 (see Table 2 below).

Infill magnetics over EL22506 cost of \$8 / line km. A \$2,000 mobilisation charge has been added.

<b>Expenditure – Year 1</b>	<b>EL22506</b>
Geological Salaries and Wages	\$5,500
Transport and Travel	\$3,600
Geophysical Contractors	\$37,952
Specialist Services – computing, drafting, tenement management	\$6,000
Rent	\$5,368
Overheads, office costs (15%)	\$5,700
<b>TOTAL</b>	<b>\$64,120</b>

**TABLE 2: EXPENDITURE DETAILS**

Covenants were met for the exploration licence.

## **6. PROPOSED EXPLORATION – YEAR 2**

### **6.1 Sampling**

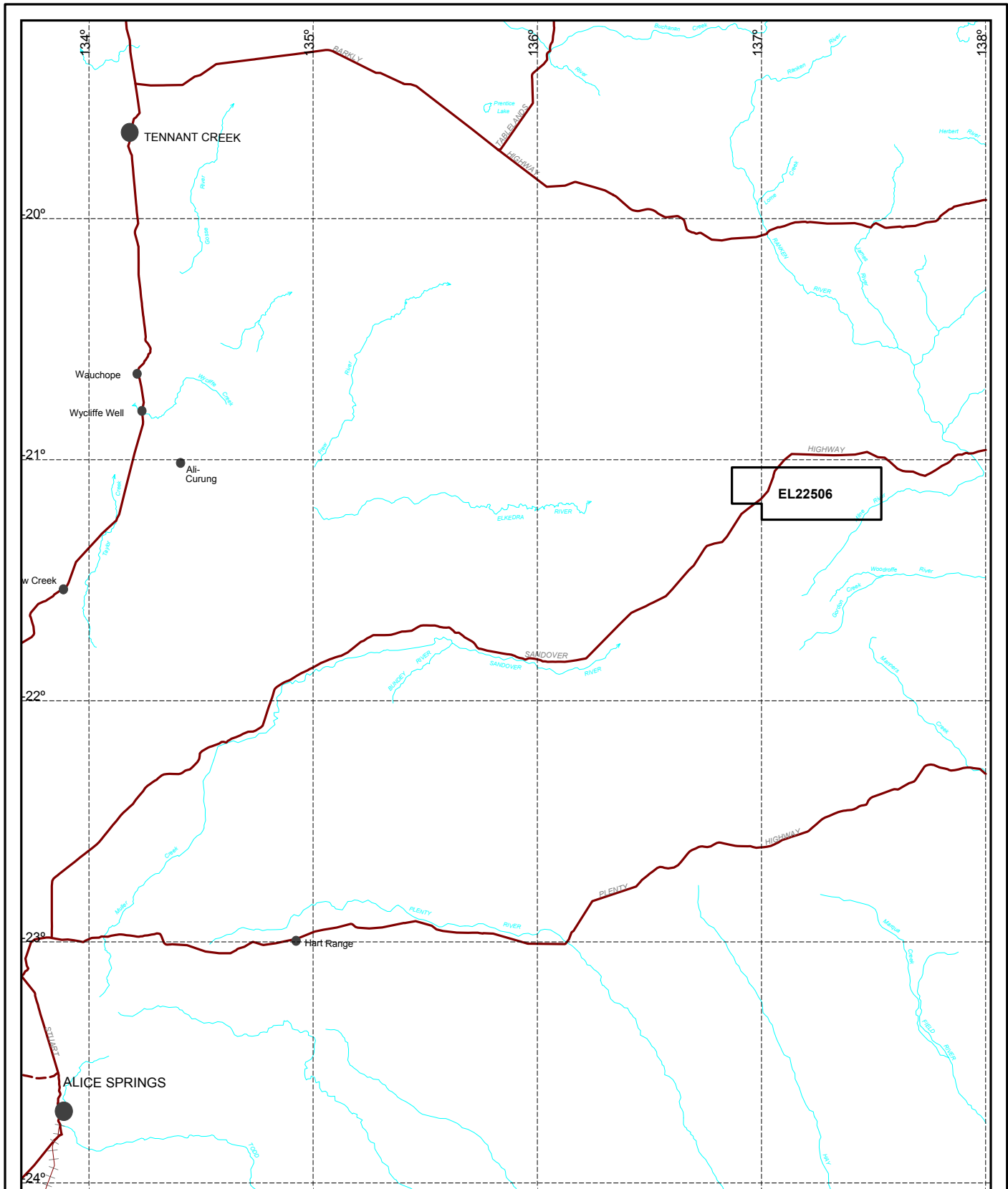
A sampling programme is planned for 2003 which will involve the collection of approximately 30 stream samples over tenement EL22506.

### **6.2 Proposed Expenditure**

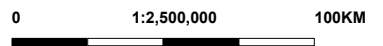
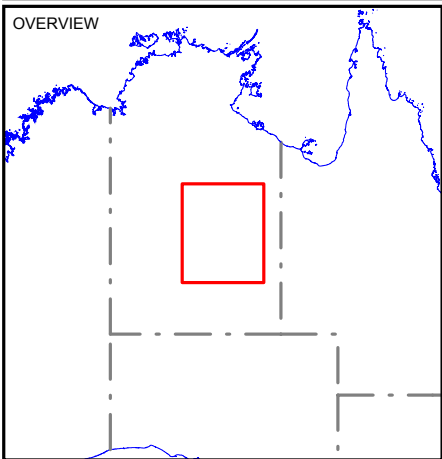
<b>Expenditure – Proposed for year 2</b>	<b>EL22506</b>
Geological Salaries and Wages	\$5,000
Transport and Travel	\$3,000
Sampling costs	\$15,000
Specialist Services – computing, drafting, tenement management	\$5,000
Overheads, office costs (15%)	\$5,000
<b>TOTAL</b>	<b>\$33,768</b>

## **7. SUMMARY**

Diamond exploration conducted by De Beers Australia Exploration Limited over the Aljawarra project area included the interpretation of regional government magnetic data (the Elkedra Survey). A field visit was made to the exploration licence to assess the area. A regional airborne magnetic survey comprising 26,173 line km was flown over almost the entire project area in 2002 infilling government data from 400 m to 200 m line spacing. 4,494 of these line kms were within EL22506. Data were re-interpreted; unfortunately no anomalies were chosen within EL22506.



**EL22506**



MAP 1

DE BEERS AUSTRALIA EXPLORATION LIMITED

**ANNUAL REPORT**

**EL22506**

**LOCATION MAP**

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