# Open File Envelope No. 11,474

## EL 3573, EL 3576, EL 3590, EL 3591 AND EL 3613

## HAGGARD HILL, WHYMLET WELL, BON BON OUTSTATION, MCDOUALL PEAK AND PHAR LAP OUTSTATION

## JOINT ANNUAL REPORTS AND FINAL REPORT TO LICENCES' SURRENDER, FOR THE PERIOD 21/6/2006 TO 9/4/2010

Submitted by
Maximus Resources Ltd and Eromanga Uranium Ltd
2010



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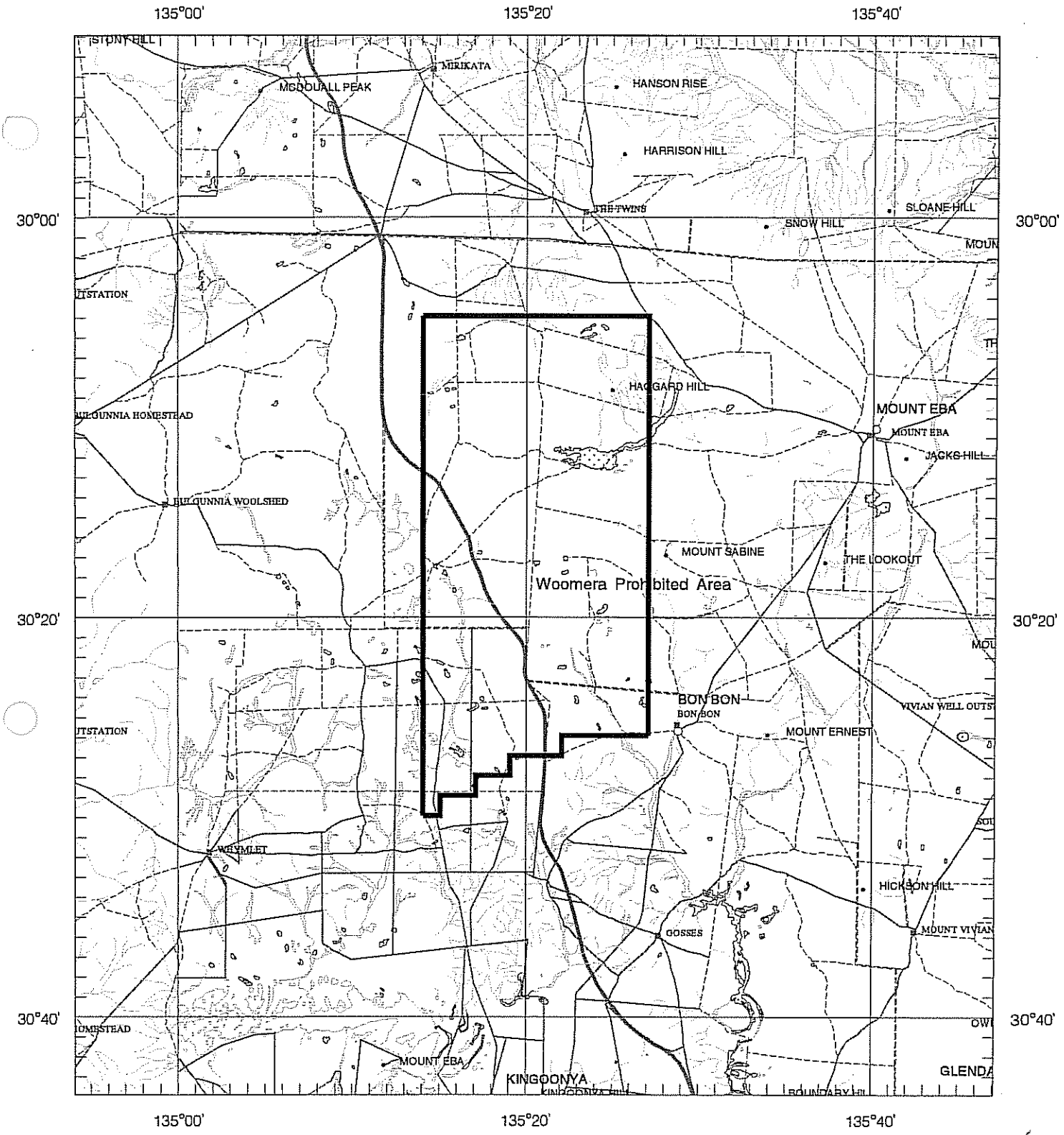
Minerals and Energy Resources
7th Floor
101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000
Facsimile: (08) 8204 1880

Government of South Australia
Primary Industries and Resources SA

# SCHEDULE A




APPLICANT : **MAXIMUS RESOURCES LTD**

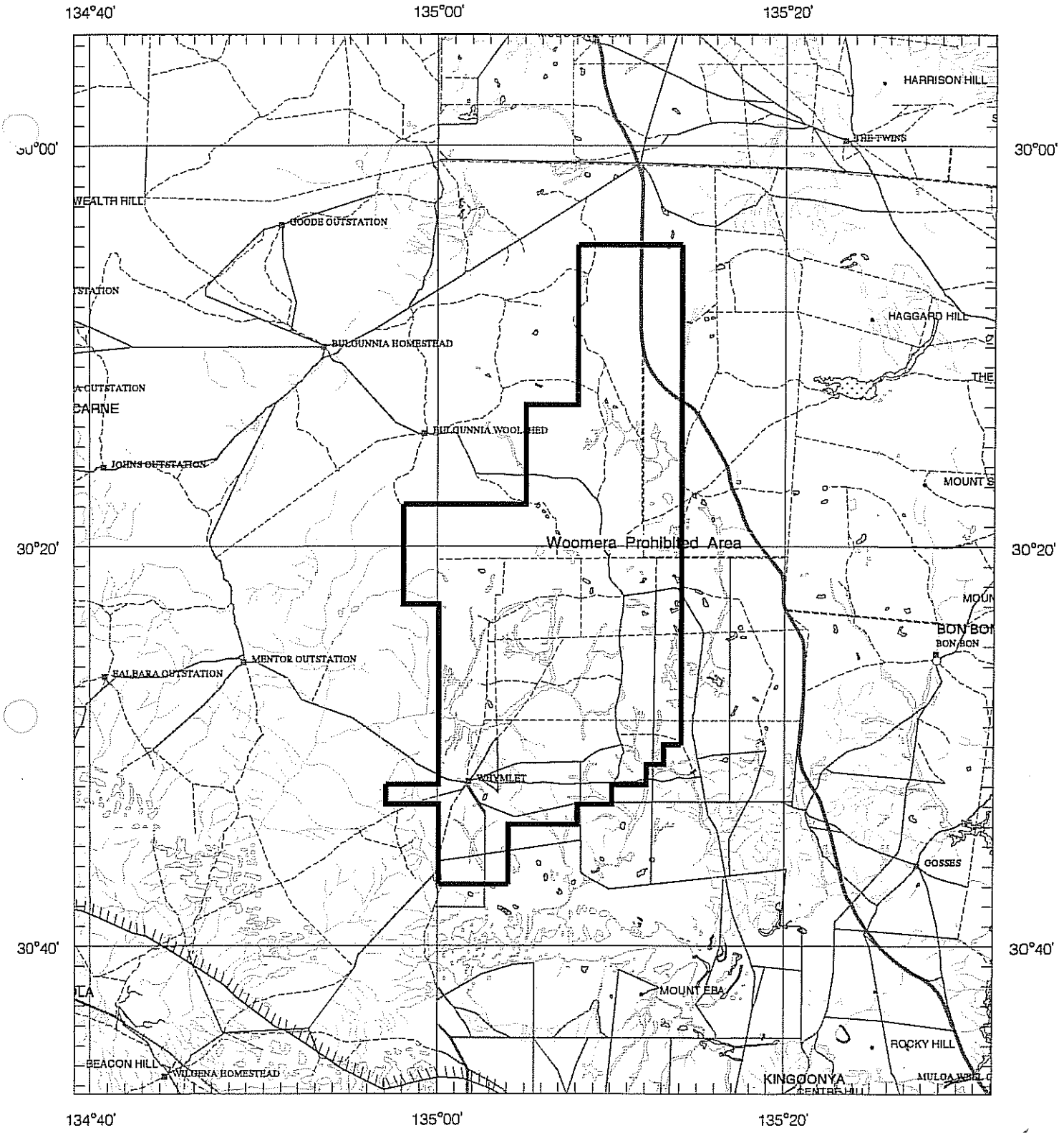
FILE REF : **27/06** TYPE : **MINERAL ONLY** AREA : **859** km² (approx.)

1:250000 MAPSHEETS : **KINGOONYA**

LOCALITY : **HAGGARD HILL AREA - Approximately 80 km northeast of Tarcoola**

DATE GRANTED : **21-Jun-2006** DATE EXPIRED : **20-Jun-2007** EL NO : **3573**

# SCHEDULE A




SCALE 1: 500 000

KILOMETRES 10 0 10 20 30 40 50 KILOMETRES

LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **MAXIMUS RESOURCES LTD**

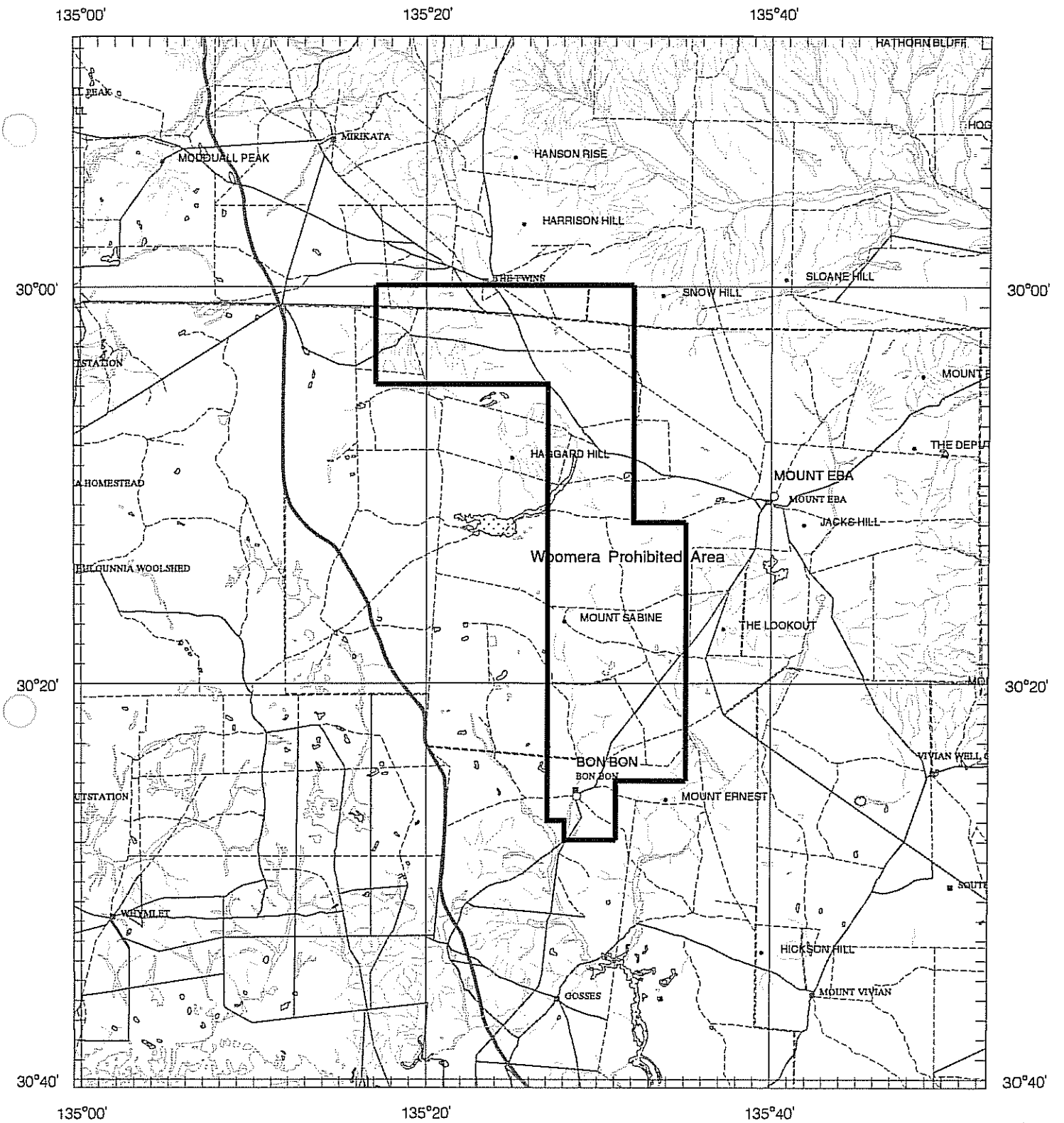
FILE REF : **26/06** TYPE : **MINERAL ONLY** AREA : **973** km² (approx.)

1:250000 MAPSHEETS : **TARCOOLA KINGOONYA**

LOCALITY : **WHYMLET AREA - Approximately 60 km northeast of Tarcoola**

DATE GRANTED : **21-Jun-2006** DATE EXPIRED : **20-Jun-2007** EL NO : **3576**

# SCHEDULE A




SCALE 1 : 500 000

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LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **MAXIMUS RESOURCES LTD**

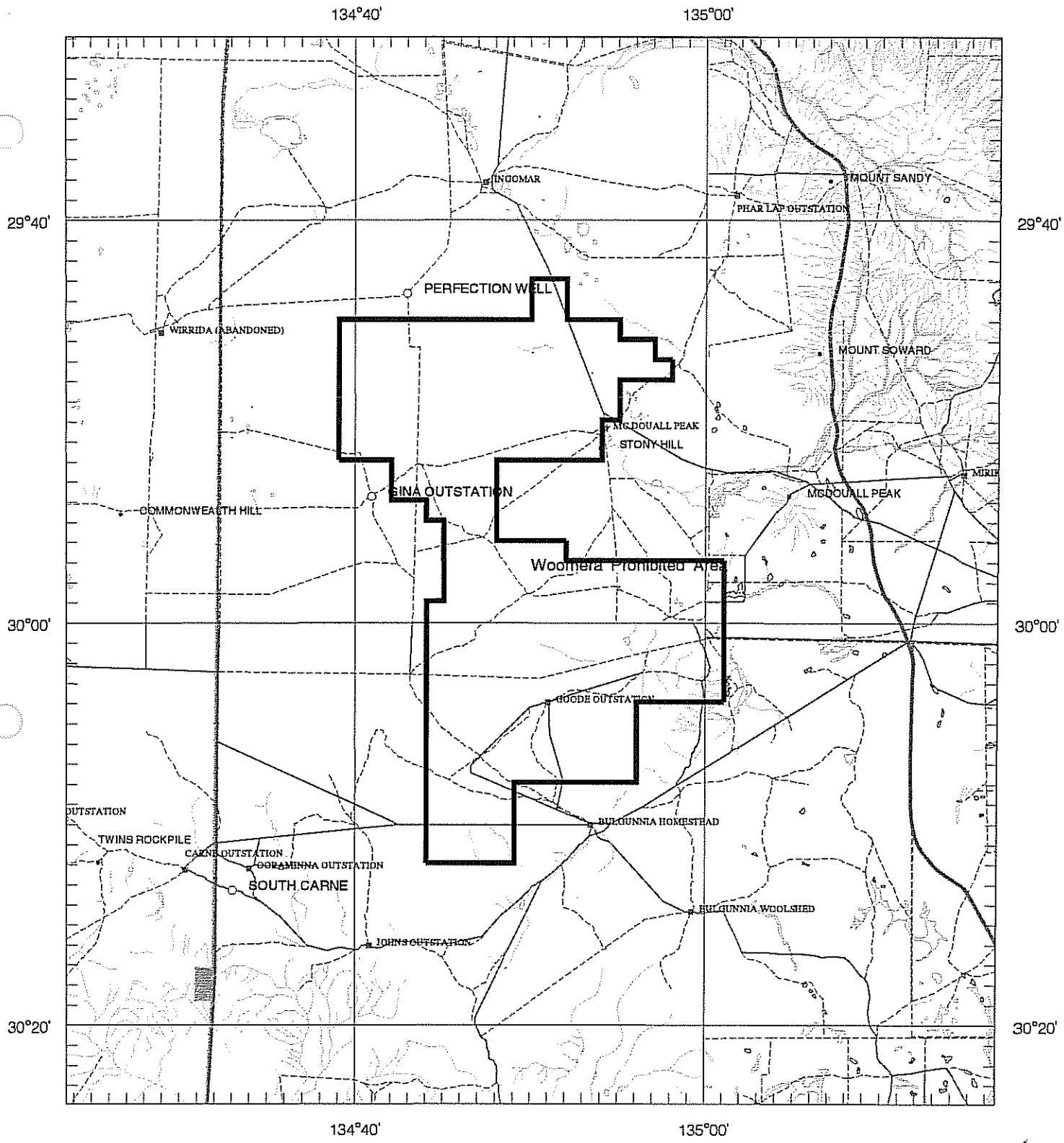
FILE REF : **28/06** TYPE : **MINERAL ONLY** AREA : **667** km² (approx.)

1:250000 MAPSHEETS : **BILLA KALINA KINGOONYA**

LOCALITY : **BON BON AREA - Approximately 100 km northeast of Tarcoola**

DATE GRANTED : **22-Jun-2006** DATE EXPIRED : **21-Jun-2007** EL NO : **3590**

# SCHEDULE A

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GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **MAXIMUS RESOURCES LTD**

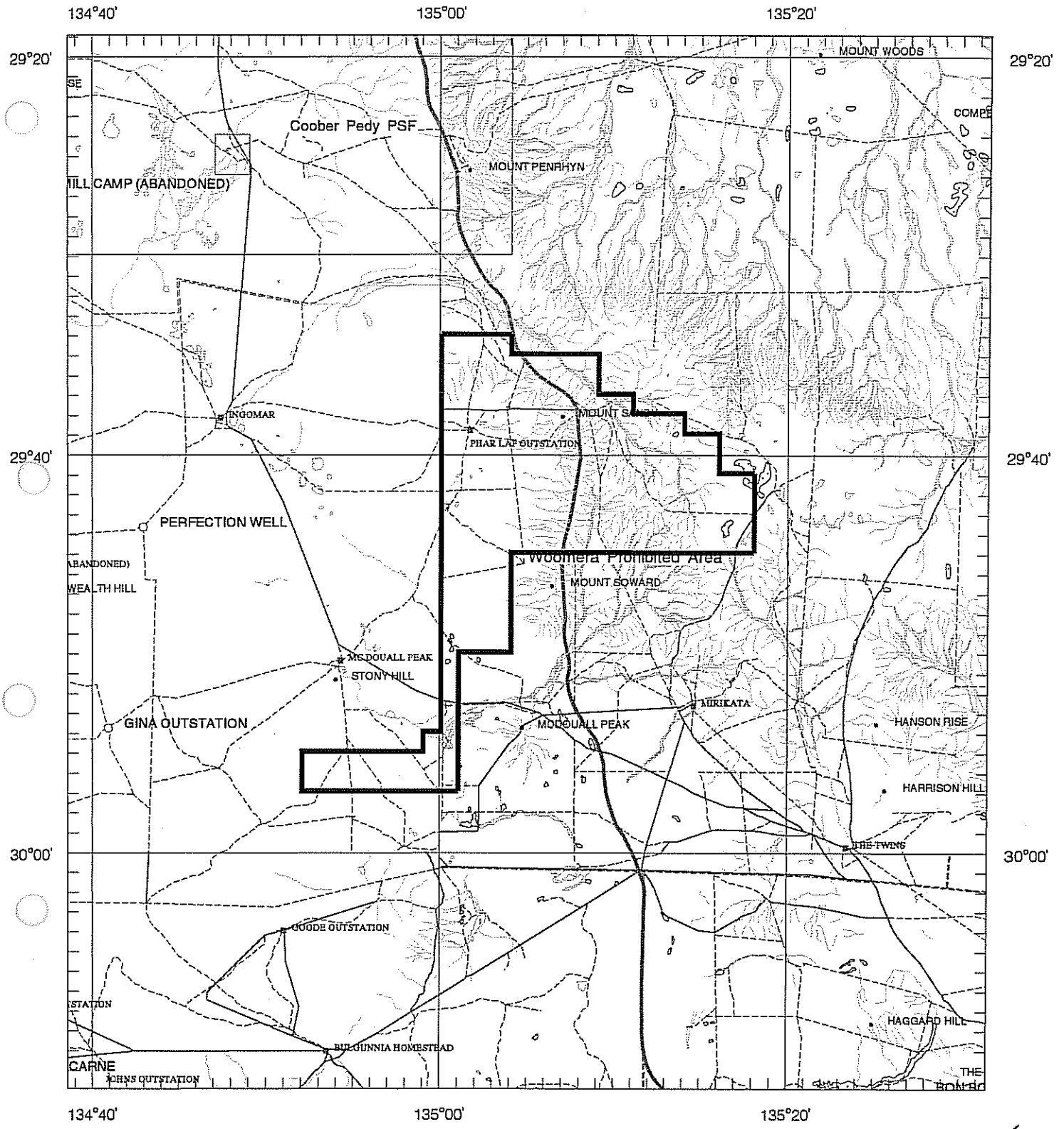
FILE REF : **29/06** TYPE : **MINERAL ONLY** AREA : **980** km² (approx.)

1:250000 MAPSHEETS : **COOBER PEDY BILLA KALINA TARCOOLA KINGOONYA**

LOCALITY : **MCDOUALL PEAK AREA - Approximately 90 km NNE of Tarcoola**

DATE GRANTED : **22-Jun-2006** DATE EXPIRED : **21-Jun-2007** EL NO : **3591**

# SCHEDULE A




SCALE 1: 500 000

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LICENCE GRANTED IN : DATUM AGD66

GDA GEOCENTRIC DATUM OF AUSTRALIA

APPLICANT : **MAXIMUS RESOURCES LTD**

FILE REF : **30/06** TYPE : **MINERAL ONLY** AREA : **581** km² (approx.)

1:250000 MAPSHEETS : **COOBER PEDY BILLA KALINA**

LOCALITY : **PHAR LAP OUTSTATION AREA - Approximately 120 km NNE of Tarcoola**

DATE GRANTED : **15-Aug-2006** DATE EXPIRED : **14-Aug-2007** EL NO : **3613**

EROMANGA URANIUM


28 June 2007

Mr George Kwitko
Principal Geologist
Mineral Tenements - PIRSA
GPO Box 1671
ADELAIDE SA 5001

Dear George,

**Renewal of EL's 3573, 3576, 3590, 3591 and 3613**
**Kingoonya Project, Eromanga Basin.** AR Letter for 31-08-07

Further to the applications for extension of term lodged last month and your request for more information explaining the shortfall in expenditure in year 1 and detailing the proposed exploration program for year 2 and how this will meet this shortfall plus year 2 commitments, the following is now tendered.

The above ELs were granted to Maximus Resources Limited (MXR) between 21 June and 15 August 2006. Prior to grant MXR entered into a joint venture agreement with Eromanga Uranium Limited (ERO) whereby ERO would be the operator of an intensive exploration program to assess of the uranium potential of the Eromanga Basin in the Kingoonya region and elsewhere in SA. ERO is the operator of the Kingoonya project area.

No effective exploration was possible prior to January 2007 because:

- ERO was not listed on the ASX until the end of October 2006 and;
- In the period November- December 2006 ERO's prime activities were directed to establishment of an exploration office, establishment of a logistical base and recruitment of key exploration personnel.

Since commencement of exploration in early 2007 ERO has spent over $1.5 million on conducting airborne EM surveys over the entire area of its Marree and Abminga project areas and has currently commenced drilling two deep (up to 600m) diamond drill holes at Billa Kalina to investigate a basement magnetic/gravity feature. Additionally flying of the entire Billa Kalina project area with airborne EM will commence on completion of the Abminga survey.

At the same time planned airborne EM surveys over the entire Kingoonya project area due for completion by June 2007 have been deferred because one landowner objected to the survey being undertaken at this time because it may potentially impact on the lambing season. It has been impracticable to undertake airborne EM over the remaining landholdings and while other landowners have not cited this issue, it could be a problem for them also, if it is indeed a genuine concern. Had this survey been completed as planned, year 1 commitments would have been met in full.

Eromanga Uranium Limited ACN 119 031 864 | 62 Beulah Road Norwood South Australia 5067 | PO Box 3126 Norwood South Australia 5067
Phone 61 8 8132 7970 | Fax 61 8 8362 5966 | Email info@eromangauranium.com | web www.eromangauranium.com

To remedy this shortfall the year 2 exploration program and schedule for the Kingoonya project area is as follows:

September-October 2007.

- Conduct airborne EM (and magnetic) survey over entire project area

Estimated cost of $550 000, which will meet year 1 expenditure in full.

November 2007-February 2008

- Processing and interpretation of aerial geophysical data
- Field reconnaissance and sampling
- Aboriginal Heritage site clearance

March-June 2008

- Regional rotary mud drilling of palaeochannel features outlined by the aerial geophysical data
- Geophysical drill logging
- Follow-up sampling and ground geophysical surveys
- Follow-up drilling of specific areas
- A budget of $550 000 has been allocated to the November 2007 to June 2008 program which will meet year 2 expenditure in full

During January-June 2008 a preliminary assessment of the basement uranium (copper-gold) potential will be undertaken.

Please let me know if additional information is required in support of the applications for extension.

Yours sincerely

A. W. Newton

Warwick Newton
Tenement Manager


# KINGOONYA PROJECT

| | |
|---|---|
| EL 3576 | Whymlet |
| EL 3573 | Haggard Hill |
| EL 3590 | Bon Bon |
| EL 3591 | McDouall Peak |
| EL 3613 | Phar Lap |

# FIRST COMBINED ANNUAL REPORT

For the year ending 31/8/08

**OPERATOR:** Eromanga Uranium Ltd

**TENEMENT HOLDERS:** Maximus Resources Ltd

**Author:** D. Woolford
**Date:** September 2008
**Report No:** **08/03**

*Distribution:* PIRSA (1 hard copy/1 CD)
ERO (2 hard copies/2 CDs)

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## 1. Summary

The Kingoonya project consists of five exploration licences, EL's 3576, 3573, 3590, 3591 and 3613, which cover 4060 square km of land, governed by the Eromanga Basin JV between Eromanga Uranium Limited (ERO) and Maximus Resources Limited (MXR).

Eromanga intends to target two distinct styles of uranium mineralisation. Primarily the focus will be on sandstone hosted deposits within Mesozoic clastic sediments. In this context, portions of the Algebuckina Sandstone and the Cadna-owie Formation, including the Mt Anna Sandstone member, at depths of less than 150 metres are prospective. Also to be targeted, are deeper unconformity related deposits in Proterozoic rocks, similar to the high grade deposits in the Alligator River District of the Northern Territory and the Athabasca Basin of Canada. These are effectively blind targets where block faulting in the southern part of the project area has resulted in uplift of the basement assemblages and brought the unconformable contact between the Late Proterozoic Pandurra Formation and Early to Middle Proterozoic crystalline basement closer to surface. Anticipated depths to the unconformity and intersecting structures are in the order of 200 to 300 metres.

ERO has flown an airborne EM (REPTEM) survey over the entire project area. Drill testing of various features outlined by the EM survey, which may represent mineralised systems, is now proposed. ERO proposes to initially test these features with a rotary mud drilling program.

To date ERO has compiled extensive airborne EM and MAG data in conjunction with open file reports, which are being used to establish drilling programs on the Kingoonya Project areas.

## 2. INTRODUCTION

The Kingoonya project comprises two tenement blocks covering a total area of 4,060 square kilometres within the western part of the Eromanga Basin. The northern tenement block of two exploration licences (EL 3591, EL 3613) and the southern tenement block of three exploration licences (EL3573, 3576 and 3590) are separated by about 15 kilometres of ground held by other parties. All of the tenement area lies within the Woomera Restricted Area.

In general topography in the area reflects the underlying Mesozoic to Quaternary geology and comprises undulating gibber plains and uplands, and sand plains. No permanent streams or waterholes are present and the ephemeral drainage is internal and poorly defined often disappearing into the sand, broad floodplains or salt lakes. Vegetation is sparse, the gibber uplands and plains lightly covered with scattered mulga woodland and saltbush–bluebush shrubland with bindyi. Open myall woodland and saltbush and bluebush are found on the sand plains.

## 3. LOCATION AND ACCESS

The Kingoonya project area is located north of the township of Kingoonya, South Australia approximately 500 kilometres northwest of Adelaide (Figure 1). The Stuart Highway traverses the project tenements diagonally from southeast to northwest and station tracks within the tenement area provide reasonable access to most areas.

## 4. TENURE

**Table 1 Tenement Details**

| Tenement Number | Tenement Name | Date Granted | Expiry Date | Area (sq km) | Registered Holder/Applicant |
|---|---|---|---|---|---|
| EL 3576 | Whymlet | 21/06/06 | 20/06/08 | 973 | Maximus Resources Limited |
| EL 3573 | Haggard Hill | 21/06/06 | 20/06/08 | 859 | Maximus Resources Limited |
| EL 3590 | Bon Bon | 22/06/06 | 21/06/08 | 667 | Maximus Resources Limited |
| EL3591 | McDouall Peak | 22/06/06 | 21/06/08 | 980 | Maximus Resources Limited |
| EL 3613 | Phar Lap | 15/08/06 | 14/06/08 | 581 | Maximus Resources Limited |

## 5. LAND TITLE

The Kingoonya Project lies wholly within the Woomera Prohibited Area, and within the area, private pastoral land (Figure 2). The whole of the Kingoonya project falls under one Native Title Claim, the Antakirinja Native Title Claim (SC93/7).

## 6. GEOLOGICAL BACKGROUND

The Kingoonya tenements are underlain by Eromanga Basin sediments predominantly of Jurassic to Cretaceous age under a thin cover of Quaternary sediments and residual soil. Scattered exposures of Tertiary silcreted sandstone occur throughout the tenement area. To the south and west of the project area a chain of playa lakes together with a tributary chain from the north is the present day expression of a Tertiary palaeodrainage system referred to as the Kingoonya Palaeochannel. The upper reaches of this palaeodrainage may extend onto the project area.

The Mesozoic stratigraphy consists of Algebuckina Sandstone, Cadna-owie Formation and Bulldog Shale. The Cretaceous Cadna-owie Formation and Jurassic-Cretaceous Algebuckina Sandstone are important aquifers in the region and although in broad terms these aquifers are open systems, they are in places partially or wholly confined. In the southernmost part of the southern tenement group a Tertiary ferruginisation of the Algebuckina Sandstone is evident.

To the south, west and northwest of the tenement area, rocks of the Gawler Craton area are exposed. These rocks are the oldest in the region and comprise Archean to Mesoproterozoic metamorphic, granitic, acid volcanic and meta-sedimentary rocks and represent basement to the Mesozoic sedimentary formations mentioned above. Mineralisation is widespread in the Gawler rocks and deposits of lead, zinc, copper, tin and gold are found at various places in the Kingoonya region. Furthermore, the world class Olympic Dam copper-gold-uranium deposit is located within rocks of the Gawler Craton, beneath 300 metres of Proterozoic and later cover formations, 100 kilometres to the east of the project area. It can be assumed that these older crystalline rocks could be the source of uranium for enriched groundwater.

An exposure of Hiltaba Suite granite occurs near the southeastern boundary of the southern tenement block. As well, structural interpretation of detailed aeromagnetic data suggests that an uplifted block of Proterozoic Pandurra Formation lies beneath the Mesozoic sediments of the southeastern part of the tenement area. This formation is a possible host for high grade, unconformity related uranium mineralisation.

## 7. EXPLORATION HISTORY AND KNOWN MINERALISATION

The discovery of the Tarcoola Goldfield, west of the project area, in 1900 prompted widespread prospecting for gold and base metals over the Gawler Craton. Recorded exploration for fossil fuels and base metals commenced in 1959 and a number of major companies have carried out exploration programs since that time, particularly in the period following the discovery of the Olympic Dam orebody in 1976. During that period some exploration was directed toward uranium in rocks of Proterozoic age in the region.

Within parts of the tenement area, exploration has been carried out for Olympic Dam style deposits by Carpentaria Exploration Co Pty Ltd, Esso Exploration & Production Australia Inc, CRA Exploration Pty Ltd and BHP Minerals Ltd in joint venture with Western Mining Corporation Exploration Pty Ltd. Exploration for coal was undertaken by Samedan of Australia and diamond exploration by CRA and Stockdale Prospecting Ltd in joint venture with Agip Australia Pty Ltd.

There has been no exploration specifically for uranium within the tenement area. In 1979, Carpentaria Exploration Pty Ltd, drilled 4 holes, to a maximum depth of 304 metres, along the old alignment of the Stuart Highway, south of the southern tenement block, effectively testing a limited portion of the base of the Proterozoic Pandurra Formation. No mineralisation or radiometric anomalies were reported.

During the period from 1981 to 1983, Agip Australia Pty Ltd held exploration licences covering a vast area of the Eromanga Basin in the region including all of the southern tenement group. Agip's work was orientated mainly toward coal exploration and several open-hole percussion drill holes were drilled within the tenement group. The targeted Permian Mount Toondina formation was found to be absent and no further coal exploration was carried out.

Between 1981 and 1993, CRA Exploration Pty. Ltd. explored for Olympic Dam style mineralisation and diamond bearing kimberlite pipes within a project area which covered the northeastern quarter of the northern tenement block. Commencing in 1981 an aeromagnetic-radiometric survey was carried out and a number of radiometric responses were detected some of which were found to be associated with granite and heavy mineral concentrations. Most radiometric responses in the Cairns Hills, 30 kilometres north of the northern tenement group, were found to be associated with Early Proterozoic gneiss outcrops. However, one anomaly was found to be due to dark carbonate bands within the Mt Anna Sandstone member of the Cadna-owie Formation. Anomalous uranium assays of up to 1145 ppm were reported from this exposure. Twelve drill holes were drilled on the prospect to test for Cretaceous sandstone uranium mineralisation. Low order radiometric responses were noted in two holes but the majority of anomalies were found to be only surficial.

Between 1973 and 1987, Nissho-Iwai Co (Australia) Pty Ltd and PNC Exploration Pty Ltd (PNC) carried out exploration specifically for sedimentary uranium in the Tertiary Kingoonya Palaeochannel west of the southern tenement block. In the Malbooma area, drilling indicated widespread uranium mineralisation in a zone about 1.5 metres thick at the Warrior prospect. The mineralistion was found to occur at an oxidation/reduction interface in lignite bearing Eocene sediments at a depth of about 30 metres. Further significant uranium mineralisation was found over a 25 square kilometre area. In the Ealbara area, PNC collected aeromagnetic and radiometric data and radon measurements over a 125 square kilometre area and drilled 29 open hole percussion holes and one diamond drill hole intersecting lignite bearing Eocene palaeochannel sediments. Radiometric anomalies were reported from several holes at or near the base of surface oxidation in palaeotroughs incised into Gawler basement rocks and Jurassic sediments. A best measurement of 820 counts per second above a background of 35 counts per second over 0.7 metres was recorded at a depth of 70 metres within Eocene sandstone below the base of oxidation in hole EE11. Further drilling was undertaken along the northern tributary of the Ealbara Channel and two branches were identified. PNC determined that the uranium mineralisation intersected was the result of lateral redox front anomalism and suggested a terminal redox front could be expected along the channel thalweg to the southwest. Attempts to locate a terminal redox front were unsuccessful and the project was abandoned after a brief investigation of the Proterozoic basement rocks as a potential uranium host.

## 8 AIRBORNE GEOPHYSICAL SURVEY SPECIFICATIONS

An airborne EM (REPTEM) and coincident Magnetics survey was undertaken during the third quarter of 2007, which covered the whole of the Kingoonya Project area (4060 square km). Figure 3 illustrates the flight lines; the specifications of the survey are outlined below.

**SURVEY EQUIPMENT:**

| | |
|---|---|
| Helicopter: | Eurocopter BA 350 Squirrel. VH-HHJ |
| Towed Array: | REPTEM TX/RX structure |
| Transmitter: | Geosolutions proprietary REPTEM transmitter |
| Receiver: | Geosolutions proprietary REPTEM receiver.<br>24 bit A-D sampling at 1.25 microseconds |
| Transmitter area: | Single turn of 412 square metres |
| Receiver area: | Single turn of 138 square metres |
| Power system: | 24 HP Honda V-twin alternator system. |
| Magnetometer: | Geometrics G882A split beam Cesium Vapour |
| Resolution: | 0.01nT |
| Recording Interval: | 25/sec or approx 1m |

**SURVEY SPECIFICATIONS:**

| | |
|---|---|
| Flying Height: | 45 metres depending on terrain |
| Line Direction: | 000 – 180 degrees true |
| Line Spacing: | 1000 metres |
| Survey Speed: | 55 knots – Indicated Air Speed |
| Sample Interval: | 50 per second |
| Map Datum: | GDA 94 |

**SURVEY RESOLUTIONS:**

| | |
|---|---|
| ATDEM data: | Windowed to 21 channels and resampled to 10m across ground |
| Laser Altimeter: | 10 centimetre resolution sampled at 80 times per second |

**DATA PROCESSING:**

| | |
|---|---|
| Airborne TDEM: | Geosolutions proprietary airborne geophysical survey data processing package |
| Navigation Data: | Geosolutions proprietary airborne geophysical survey data processing package |

## 9. EXPENDITURE

Total expenditure to date is set out below.

**Table 2. Combined expenditure for the period 1/7/06 to 31/8/08**

| Expense $ | EL 3576 Whymlet | EL 3573 Haggard Hill | EL 3590 Bon Bon | EL 3591 McDouall Peak | EL3613 Phar Lap | Kingoonya General | Kingoonya Project Total $ |
|---|---|---|---|---|---|---|---|
| July 2006 - June 2007 | 450.15 | 407.73 | 336.28 | 452.78 | 304.24 | | **1,951.18** |
| July 2007 – June 2008 | 146,128.47 | 126,721.07 | 100,677.63 | 144,692.37 | 91,355.50 | | **609,575.04** |
| July 2008 – August 2008 | 1,082.00 | - | - | - | 5,183.60 | 3,072.00 | **9,337.60** |
| **Total** | **147,660.62** | **127,128.80** | **101,013.91** | **145,145.15** | **96,843.34** | **3,072.00** | **620,863.82** |

## 10. CONCLUSIONS

- Completion of Airborne EM (REPTEM) data processing.
- Targeting Tertiary and Mesozoic Palaeodrainages, as well as deeper unconformity related deposits in Proterozoic rocks.
- The geological setting holds potential due to the presence of Archean to Mesoproterozoic metamorphic, granite, acid volcanic and metasedimentary rocks which represent basement to Mesozoic.
- Uranium occurrences to the southwest of the Kingoonya project area at the Warrior Prospect and to the north at Cairns Hill.

## 11. RECOMMENDATIONS

An AC/mud drill program will be designed once interpretation of the AEM (REPTEM) data is complete.

## 12. SOURCES OF INFORMATION

Information for this report was drawn from several sources including published technical reports, public domain corporate information and unpublished PIRSA and SARIG open file company reports.

PIRSA Open File Envelopes Nos. 3293, 3509, 3772, 4248, 4943, 5047, 5431, 6992, 8434

Bell, R.T. 1996, Sandstone uranium, in *Geology of Canadian Mineral Deposit Types*, (Ed. Eckstrand, O.R., Sinclair, W.D. and Thorpe, R.I.), pp 212 – 219. Geological Survey of Canada, Geology of Canada, No. 8

Coats, R.P. 1973, Copley, S.A., South Australia Geological Survey, 1:250 000 Geological Series Explanatory Notes.

Curtis, J.L., Brunt, D.A. and Binks, P.J. 1990, Tertiary palaeochannel uranium deposits in South Australia, in Geology of the Mineral Deposits of Australia and Papua New Guinea (Ed. F.E. Hughes), pp. 1631 – 1636. The Australian Institute of Mining and Metallurgy: Melbourne, Monograph No. 14

Drexel. J.F., Preiss, W.V. and Parker, A.J. (Ed.) 1995, The Geology of South Australia, Vol. 1, The Precambrian, South Australia. Department of Primary Industry and Resources, Geological Survey Bulletin 54.

Drexel, J.F. and Preiss W.V. (Eds) 1995, The Geology of South Australia, Vol. 2, The Phanerozoic, South Australia. Department of Primary Industry and Resources, Geological Survey Bulletin 54.

Finch, W.I and Davis, J.F., (Eds) 1985, Geological Environments of Sandstone – Type Uranium Deposits, Report of the Working Group on Uranium Geology, International Atomic Energy Agency, Vienna

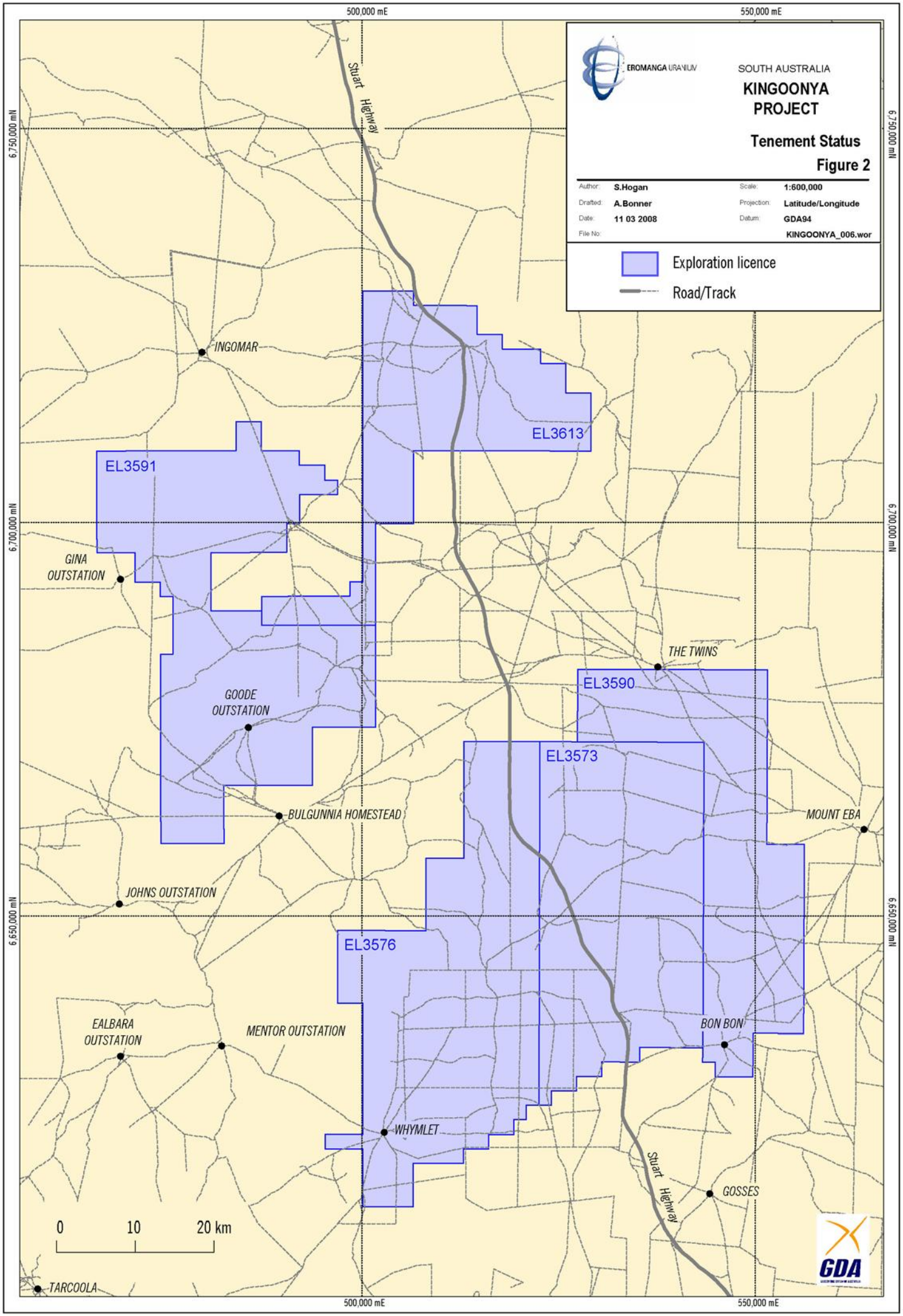
Forbes, B.G. et al. 1965, Marree, S.A., South Australia Geological Survey, 1:250 000 Geological Series Map Sheet.

Marmont, S. 1988, Unconformity – type uranium deposits, in *Ore Deposit Models* (Eds. R.G. Roberts and P.A. Sheahan) pp 103 – 115. The Geological Association of Canada, Geoscience Canada, Reprint Series 3.

Otterman, D.W. 2006, Independent Consulting Geologist's Report for Eromanga Uranium Limited, Prospectus.

Ruzicka, V. 1996, Unconformity associated uranium, in *Geology of Canadian Mineral Deposit Types*, (Ed. Eckstrand, O.R., Sinclair, W.D. and Thorpe, R.I.), pp 197 – 210. Geological Survey of Canada, Geology of Canada, No. 8.


130°
135°
140°
-25°
-30°
-35°
-40°
NT
QLD
WA
SOUTH AUSTRALIA
NSW
VIC
Coober Pedy
Kingoonya
Glendambo
Woomera
Port Augusta
Adelaide
0
100
200 km
GDA
EROMANGA URANIUM
SOUTH AUSTRALIA
KINGOONYA PROJECT
Project Location
Figure 1
Author: S.Hogan
Drafted: A.Bonner
Date: 11 03 2008
File No:
Scale: 1:7,500,000
Projection Latitude/Longitude
Datum: GDA94
KINGOONYA_005.wor


EROMANGA URANIUM
SOUTH AUSTRALIA
KINGOONYA PROJECT
Tenement Status
Figure 2
Author: S.Hogan
Drafted: A.Bonner
Date: 11 03 2008
File No:
Scale: 1:600,000
Projection: Latitude/Longitude
Datum: GDA94
KINGOONYA_006.wor
Exploration licence
Road/Track
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550,000 mE
6,750,000 mN
6,700,000 mN
6,650,000 mN
Stuart Highway
INGOMAR
EL3613
EL3591
GINA OUTSTATION
GOODE OUTSTATION
THE TWINS
EL3590
EL3573
BULGUNNIA HOMESTEAD
MOUNT EBA
JOHNS OUTSTATION
EL3576
EALBARA OUTSTATION
MENTOR OUTSTATION
BON BON
WHYMLET
GOSSES
0 10 20 km
TARCOOLA
GDA

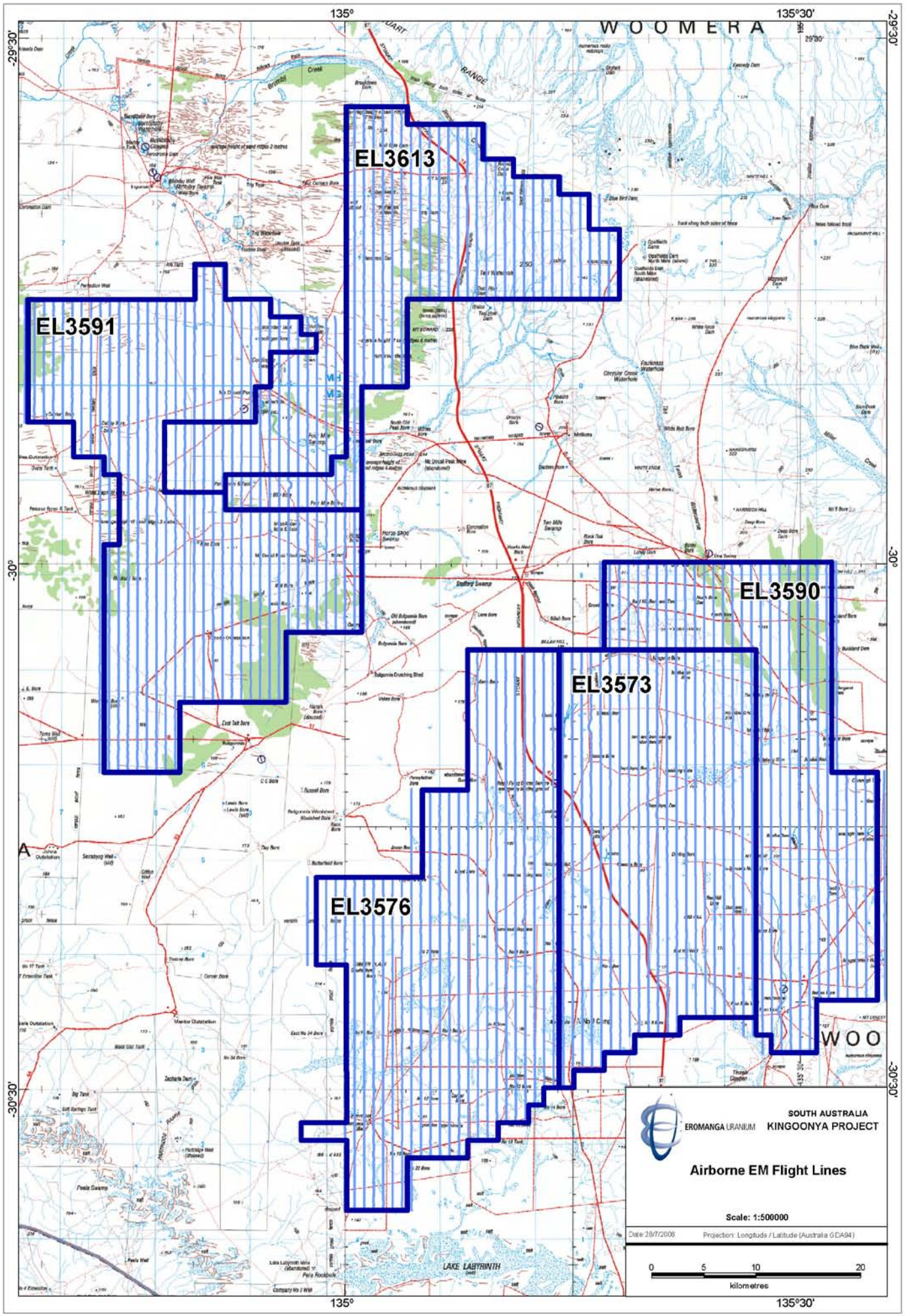
135°
135°30'
-29°30'
-30°
-30°30'
WOOMERA
EL3613
EL3591
EL3590
EL3573
EL3576
LAKE LABYRINTH
EROMANGA URANIUM
SOUTH AUSTRALIA
KINGOONYA PROJECT
Airborne EM Flight Lines
Scale: 1:500000
Date 28/7/2008
Projection: Longitude / Latitude (Australia GDA94)
0
5
10
20
kilometres

**Figure 3**

**APPENDIX A**

Airborne EM and MAG Data
**(Digital copy only)**

**(for data see Geological Survey SA)**

LOGISTICS REPORT

# REPTEM HELICOPTER TDEM SURVEY

Coober Pedy Area, South Australia
(William Ck, Billakalina, Kingoonya, McDouall Peak)
April 2008

For Eromanga Uranium Limited

By Geosolutions Pty. Ltd.

# OPERATIONAL DETAILS

## EROMANGA – WILLIAM CK.

**20 August 2007**

Three flights. Lines 1245 thru 1130.

**21 August 2007**

Four flights. Lines 1125 thru 1000.
Ferry down to Billakalina on line 1085 then line 1500 on Billakalina.

**Total Kilometres Flown – 760.3**

## EROMANGA – BILLAKALINA

**22 August 2007**

Two flights. Lines 1000 thru 1065.

**23 August 2007**

Four flights. Lines 1075 thru 1180.
Access to Woomera denied.

**24 August 2007**

Demobilise to Adelaide.

**30 August 2007**

Mobilise from Adelaide.

**31 August 2007**

Two flights. Lines 1560 thru 1535.

**01 September 2007**

Four flights. Lines 1190 thru 1315.

**02 September 2007**

Four flights. Lines 1325 thru 1470.

**03 September 2007**

Two flights. Lines 2005 thru 2070.
Day abandoned due to high winds.

**04 September 2007**

Four flights. Lines 2080 thru 2190.
Mag not logging on return – mag lost for flight.

**05 September 2007**

Three flights. Lines 2200 thru 2420.

**Total Kilometres Flown – 3496.1**

## EROMANGA – KINGOONYA

**06 September 2007**

Three flights. Lines 3005 thru 3130.

**07 September 2007**

Four flights. Lines 3140 thru 3270.

**08 September 2007**

No flying – strong winds.

**09 September 2007**

Two flights. Lines 3285 thru 3330.

**10 September 2007**

Three flights. Lines 3345 thru 3450.
Mag not logging on return – mag lost.

**11 September 2007**

Three flights. Lines 3465 thru 3570

**12 September 2007**

Two flights. Lines 3585 thru 3670.
Ferry to McDouall Peak on line 4010.

**Total Kilometres Flown – 2620.5**

## EROMANGA – MCDOUALL PEAK

**12 September 2007**

One flight. Lines 4010 thru 4105.

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**13 September 2007**

Two flights. Lines 4115 thru 4190.
Day abandoned due to high winds.

**14 September 2007**

Four flights. Lines 4200 thru 4390.

**15 September 2007**

Three flights. Lines 4400 thru 4550.

**16 September 2007**

Two flights. Lines 4565 thru 4725.

**Total Kilometres Flown – 1877.9**

End of job.

**Total Kilometres Flown – Entire job – 8754.8**

# SURVEY DETAILS

**Survey Equipment**

| | | |
|---|---|---|
| Helicopter | : | Eurocopter Squirrel BA. VH-HHO |
| Towed Array | : | REPTEM TX / RX structure. |
| Transmitter | : | Geosolutions proprietary REPTEM transmitter. |
| Receiver | : | Geosolutions proprietary REPTEM receiver.<br>24 bit A-D sampling at 1.25 microseconds. |
| Transmitter area | : | Single turn of 412 square metres. |
| Receiver area | : | Single turn of 138 square metres. |
| Power system | : | 24 HP Honda V-twin alternator system. |

**Survey Specifications**

| | | |
|---|---|---|
| Flying Height | : | 100 feet (30 metres) depending upon terrain. |
| Line Direction | : | North / South. |
| Line Spacing | : | 1000 metres. |
| Survey Speed | : | 55 Knots - Indicated Air Speed. |
| Sample Rate | : | 50 per Second. |
| Map Datum | : | GDA 94. |

**Survey Resolutions**

| | | |
|---|---|---|
| ATDEM data | : | Windowed to 18 channels and resampled to 10m across ground. |
| Laser Altimeter | : | 10 centimetre resolution sampled 80 times per second. |

**Data Processing**

| | | |
|---|---|---|
| Airborne TDEM Data | : | Geosolutions proprietary airborne geophysical survey data processing package. |
| Navigation Data | : | Geosolutions proprietary airborne geophysical survey data processing package. |

134°40' 134°50' 135°00' 135°10' 135°20' 135°30'

6720000 N 6710000 N 6700000 N 6690000 N 6680000 N 6670000 N 6660000 N 6650000 N 6640000 N 6630000 N 6620000 N

29°40' 29°50' 30°00' 30°10' 30°20' 30°30'

470000 E 480000 E 490000 E 500000 E 510000 E 520000 E 530000 E 540000 E 550000 E

## SURVEY EQUIPMENT

TOWED ARRAY : REPTEM TX/RX STRUCTURE

LASER ALT. : BUSHNELL LASER RANGER

TRANSMITTER : GEOSOLUTIONS REPTEM TX
320 AMPS / 50 HZ FREQUENCY

RECEIVER : GEOSOLUTIONS REPTEM RX - 24 BIT
A-D SAMPLING AT 1.25 MICROSECS.

## SURVEY SPECIFICATIONS

FLYING HEIGHT : 100 FEET (30 METRES)

LINE SPACING : 1000 METRES

LINE DIRECTION : NORTH / SOUTH

SURVEY SPEED : 55 KNOTS IAS

SAMPLE INTERVAL : 10.0 M ACROSS GROUND

57762
57600
57400
57200
57000
56800
56600
56400
56295

N

0.0 5.0 10.0 15.0 K

SCALE 1:250000

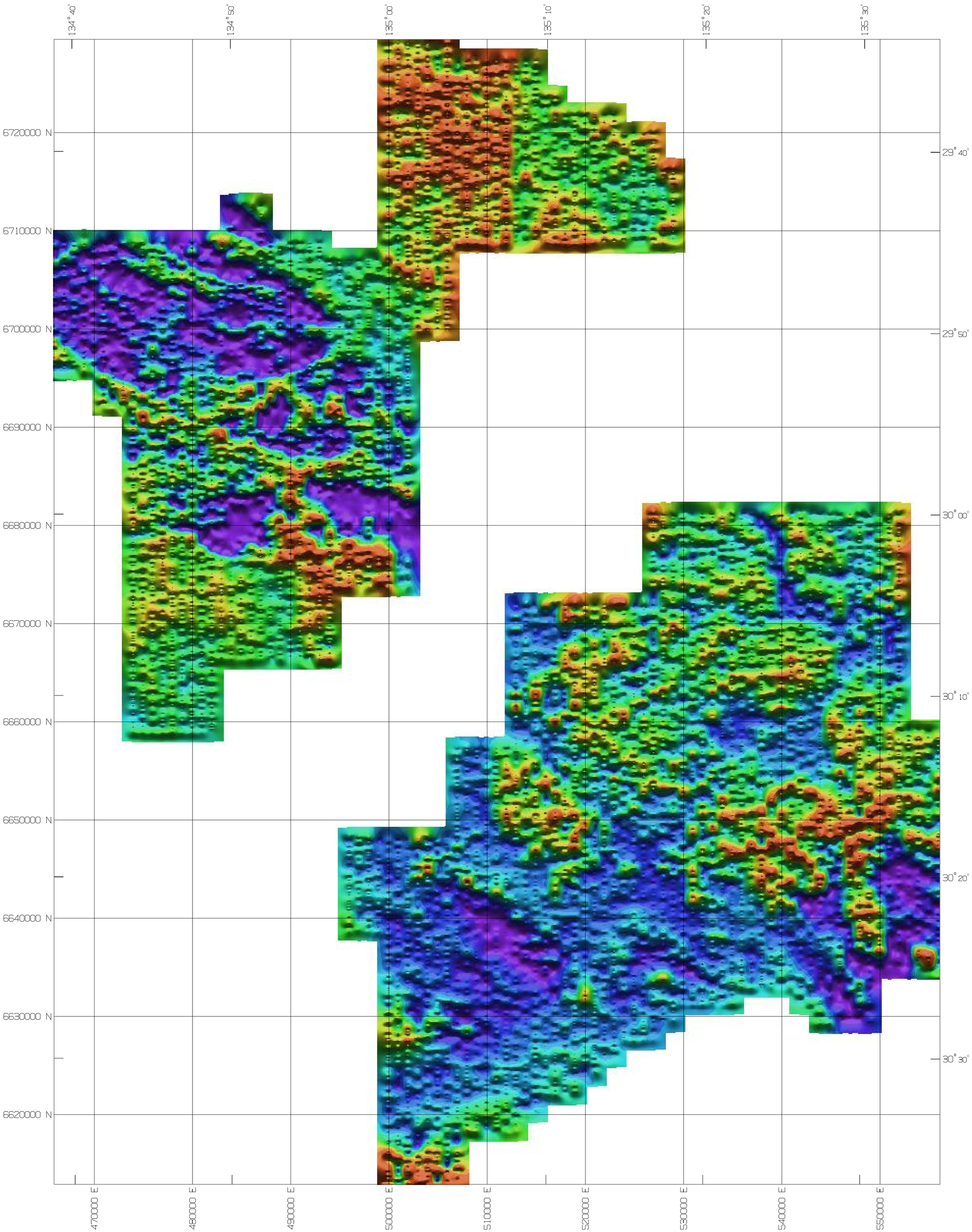
EROMANGA URANIUM LIMITED

REPTEM AIRBORNE TDEM SURVEY

KINGOONYA AREA, SOUTH AUSTRALIA

FLYING DATES -06 SEP THRU 16 SEP 2007
IMAGE OF TOTAL MAGNETIC INTENSITY
SUN INCL=20,DECL=0 DEG,COLOR STRETCH = 70 PC

GWB - 10 OCTOBER 2007




## SURVEY EQUIPMENT

TOWED ARRAY : REPTEM TX/RX STRUCTURE

LASER ALT. : BUSHNELL LASER RANGER

TRANSMITTER : GEOSOLUTIONS REPTEM TX
320 AMPS / 50 HZ FREQUENCY
RECEIVER : GEOSOLUTIONS REPTEM RX - 24 BIT
A-D SAMPLING AT 1.25 MICROSECS.

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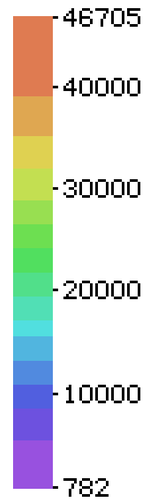



N

0.0 5.0 10.0 15.0 K

SCALE 1:250000

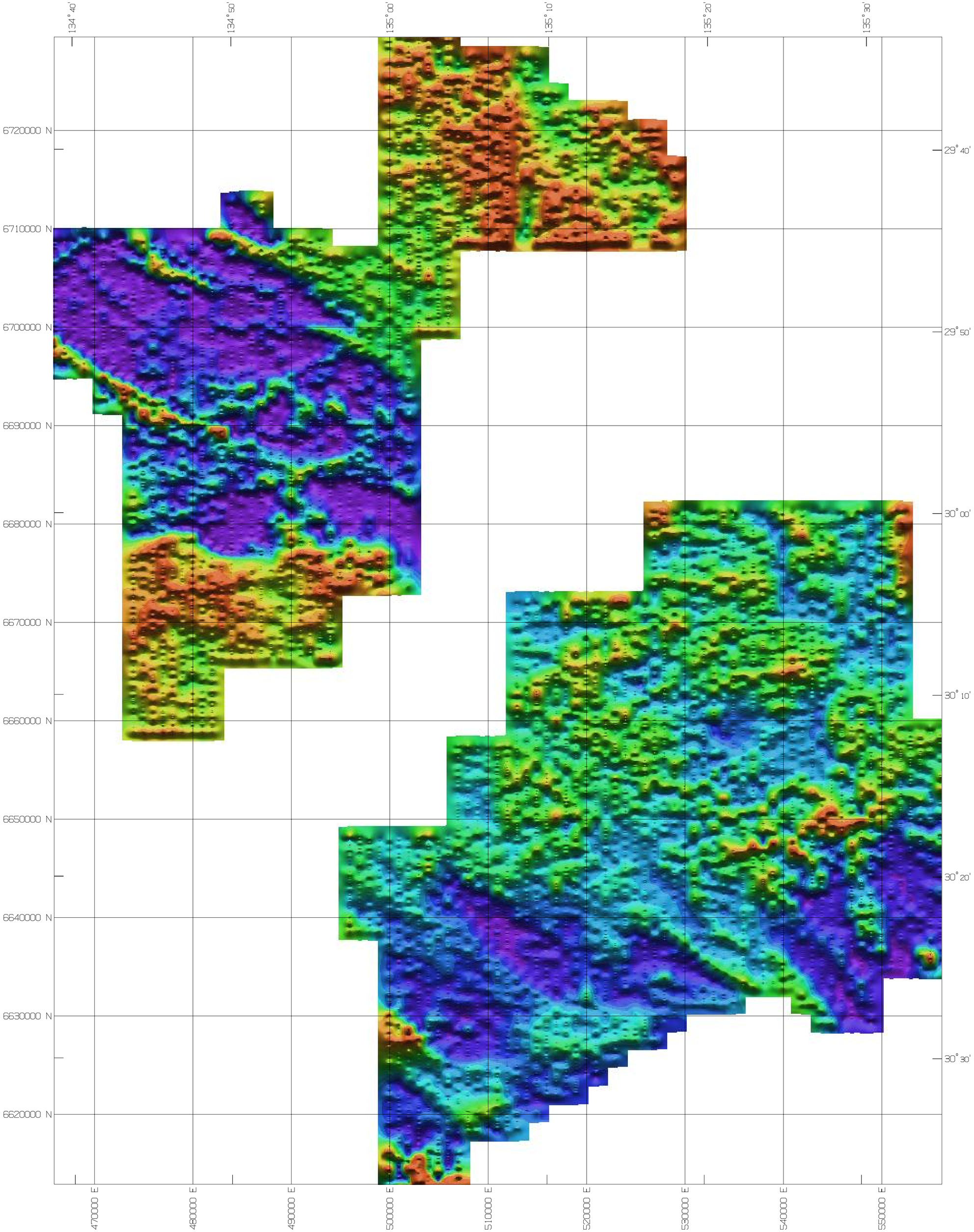
EROMANGA URANIUM LIMITED

REPTEM AIRBORNE TDEM SURVEY

KINGOONYA AREA, SOUTH AUSTRALIA

FLYING DATES -06 SEP THRU 16 SEP 2007
IMAGE OF TDEM RESPNSE IN MICROVOLTS
CHANNEL 10 - 0.932 MILLISECONDS

GWB - 10 OCTOBER 2007




## SURVEY EQUIPMENT

TOWED ARRAY : REPTEM TX/RX STRUCTURE

LASER ALT. : BUSHNELL LASER RANGER

TRANSMITTER : GEOSOLUTIONS REPTEM TX
320 AMPS / 50 HZ FREQUENCY

RECEIVER : GEOSOLUTIONS REPTEM RX - 24 BIT
A-D SAMPLING AT 1.25 MICROSECS.

## SURVEY SPECIFICATIONS

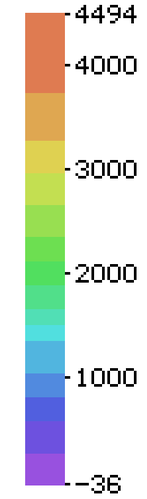
FLYING HEIGHT : 100 FEET (30 METRES)

LINE SPACING : 1000 METRES

LINE DIRECTION : NORTH / SOUTH

SURVEY SPEED : 55 KNOTS IAS

SAMPLE INTERVAL : 10.0 M ACROSS GROUND






EROMANGA URANIUM LIMITED

REPTEM AIRBORNE TDEM SURVEY

KINGOONYA AREA, SOUTH AUSTRALIA

FLYING DATES -06 SEP THRU 16 SEP 2007
IMAGE OF TDEM RESPNSE IN MICROVOLTS
CHANNEL 14 - 2.957 MILLISECONDS

GWB - 10 OCTOBER 2007

## SURVEY EQUIPMENT

TOWED ARRAY : REPTEM TX/RX STRUCTURE

LASER ALT. : BUSHNELL LASER RANGER

TRANSMITTER : GEOSOLUTIONS REPTEM TX
320 AMPS / 50 HZ FREQUENCY

RECEIVER : GEOSOLUTIONS REPTEM RX - 24 BIT
A-D SAMPLING AT 1.25 MICROSECS.

## SURVEY SPECIFICATIONS

FLYING HEIGHT : 100 FEET (30 METRES)

LINE SPACING : 1000 METRES

LINE DIRECTION : NORTH / SOUTH

SURVEY SPEED : 55 KNOTS IAS

SAMPLE INTERVAL : 10.0 M ACROSS GROUND

N

0.0 5.0 10.0 15.0 K

SCALE 1:250000

EROMANGA URANIUM LIMITED

REPTEM AIRBORNE TDEM SURVEY

KINGOONYA AREA, SOUTH AUSTRALIA

FLYING DATES -06 SEP THRU 16 SEP 2007

FLIGHT PATH MAP

GWB - 10 OCTOBER 2007

EROMANGA URANIUM

21 October 2009

Records Officer
Mineral Tenements – PIRSA
GPO Box 1671
ADELAIDE SA 5001

Dear Sir or Madam,

**Kingoonya Annual Technical Report**
**EL's 3573, 3576, 3590, 3591 and 3613**

As a result of our inability to access our tenements within the Woomera exclusion corridor, no field work was conducted on this group of tenements during the period 1 September 2008 to 31 August 2009. Subsequently there is no data to submit to PIRSA. We therefore request that this letter be accepted in lieu of an annual report.

Please contact me if you require further information, phone 8132 7915, mobile 0431 665 014, email fparker@eromangauranium.com .

Yours sincerely,

FM Parker

Fran Parker
Senior Geologist

RECEIVED
23 OCT 2009
OFFICE OF MINERALS & ENERGY RESOURCES / MINERAL TENEMENTS

MERFF
R2009/00461

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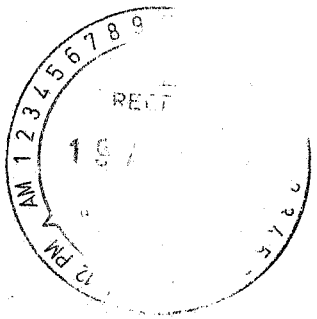
Maximus Resources



16 April 2010

Records Officer
Mineral Tenements – PIRSA
GPO Box 1671
ADELAIDE SA 5001

Dear Sir/Madam,

**Whymlet (EL 3576), Haggard Hill (EL 3573), Bon Bon (EL 3590), McDouall Peak (EL 3591) and Phar Lap (EL 3613)**
**Letter in lieu of an final technical report for tenements surrendered 9 April 2010**

As no exploration activity has been undertaken since the last report was submitted, we respectfully request that this letter be accepted in lieu of a final report.

Please contact me if you require further information, phone 8132 7915, mobile 0431 665 014, email fparker@flindersmines.com .

Yours sincerely,

Fran Parker (Dr)
Senior Geologist