EL 6910
"HOME OF BULLION"
BARROW CREEK - NORTHERN TERRITORY
DECEMBER 15, 1992

This document contains the following:

- Geophysical Interpretative Report
- Relinquishment Report, 1992
- Expenditure Report, 1992
EL 6910

"HOME OF BULLION"

BARROW CREEK - NORTHERN TERRITORY

GEOPHYSICAL INTERPRETATION

J.F. Allender
21 Salisbury Street,
Unley SA 5061
CONTENTS

SUMMARY
INTRODUCTION
DISCUSSION
CONCLUSIONS
REFERENCES
LIST OF FIGURES

Geomagnetic Map  Figure 1.  (1:100 000)
SUMMARY

This report is should be regarded as an appendix to the report of Hosking and Allender 1992. The geophysical interpretation is in the form of a geomagnetic map and was built principally on the 1:100 000 NTGS Airborne Geophysical Survey Series and the compilation sheets on Haines (NTGS).

INTRODUCTION

The aeromagnetic interpretation was used to determine the existence and geometry of repetitions and extensions of the Home of Bullion. The resulting geomagnetic map was the prime tool used to determine the relinquishment pattern.

DISCUSSION

A geophysical interpretation using NTGS published contours along with BHP images was commenced. Specific objectives included locating shear zone and faults, alteration (magnetite depletion zones) and marker horizons, particularly meta-volcanics within the otherwise monotonous Bullion Schist and continuations and repetitions of the Home of Bullion lode especially under cover to the east.

Limited use only of the BHP images was possible due to their small scale ie. 1:250 000. The 1:100 000 contours however were used to construct a geomagnetic map of the licence area and environs. Large scale shearing is prominent. A long east west zone of magnetite rich calc-silicate is evident. This feature has been calibrated by ground observation.

* The magnetic anomaly to the south of the mine site require detailed ground surveying.

REFERENCES.

Australian Geophysical Pty Ltd. 1965a: Results of prospecting at Mulbanga’s Prospect (AP 1326), Barrow Creek, NT. Northern Territory Department of Mines and Energy, Open File Company Report, CR 65/2 (unpublished).

Australian Geophysical Pty Ltd. 1965b: Report No 3, Results and recommendations in the Home of Bullion area, Barrow Creek, NT. Northern Territory Department of Mines and Energy, Open File Company Report, CR 65/6 (unpublished).


Felderhof, J.B., and Baraclough, D., 1974: Barrow Creek area, Osborne-Crawford range, Area D, Annual report EL 804, for the year ending 27/12/73. Keewane Australia Pty Ltd., Northern Territory Department of Mines and Energy, Open File Company Report, CR 74/12 (unpublished).


CONTENTS

SUMMARY
INTRODUCTION
DISCUSSION
CONCLUSIONS
REFERENCES
LIST OF FIGURES

Map showing relinquishment area.
SUMMARY

The relinquishment area was decided on the basis of a geophysical interpretation by J. F. Allender 1992. s report is should be regarded as an appendix to the report of Hosking and Allender 1992. The geophysical interpretation in the form of a geomagnetic map and was built principally on the 1:100 000 NTGS Airborne Geophysical Survey Series and the compilation sheets on Haines (NTGS).

INTRODUCTION

The aeromagnetic interpretation was used to determine the existence and geometry of repetitions and extensions of the Home of Bullion. The resulting geomagnetic map was the prime tool used to determine the relinquishment pattern.

DISCUSSION

The area relinquished is characterised by limited anomalous magnetic signature and by negligible Bullion Schist outcrop.

REFERENCES

Australian Geophysical Pty Ltd. 1965a: Results of prospecting at Mulbanga's Prospect (AP 1326), Barrow Creek, NT. Northern Territory Department of Mines and Energy, Open File Company Report, CR 65/2 (unpublished).


Australian Geophysical Pty Ltd. 1965b: Report No 3, Results and recommendations in the Home of Bullion area, Barrow Creek, NT. Northern Territory Department of Mines and Energy, Open File Company Report, CR 65/6 (unpublished).


Felderhof, J.B., and Baraclough, D., 1974: Barrow Creek area, Osborne-Crawford range, Area
D, Annual report EL 804, for the year ending 27/12/73. Keewanee Australia Pty Ltd., Northern Territory Department of Mines and Energy, Open File Company Report, CR 74/12 (unpublished).


EL 6910

"HOME OF BULLION"

BARROW CREEK - NORTHERN TERRITORY

EXPENDITURE REPORT

J.F. Allender
21 Salisbury Street,
Unley SA 5061
Expenditure

The 1992 expenditure totalled $4500.00 and included the following items:

Completion of aeromagnetic interpretation. (J. Allender).
Design of relinquishment pattern (J. Allender).
Field trip to Barrow Creek (K. Yates).
Reporting to NTGS
Reporting to Home of Bullion Creek ML licence holder
Literature search NTDME (A. J. Hosking)
Overheads