ANNUAL REPORT FOR

EXPLORATION LICENCE 7730

13 JULY 1995 TO 13 JULY 1996

GORDONS NORTH
McARTHUR BASIN, NT

D STEPHENS

JULY 1996

Tenement 7730 is held by:

RM BIDDLECOMBE
PO Box 38220
WINNELLIE NT 0820

Report prepared by:

BHP MINERALS PTY LTD
Level 3
3 Plain Street
EAST PERTH WA 6004
SUMMARY

EL 7730 is owned by R M Biddlecombe and is explored by BHP Minerals through the Gordons Joint Venture.

The licence is located on the western side of the Batten Trough, within the mid-Proterozoic McArthur Basin. The area is considered prospective for sediment-hosted base metal mineralisation. A small sub-economic occurrence of copper mineralisation is present on an adjacent licence EL8011.

During 1996, the Gordons JV area was covered with a regional GEOTEM survey. Unfortunately, no base-metal related conductors have been defined within EL 7730.

In view of this, BHP will not conduct any further work within EL 7730.
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<td>Location of Tenement</td>
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<tr>
<td>GEOTEM Flight line diagram</td>
<td>1:50,000</td>
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1. GEOTEM Survey Specifications
1. INTRODUCTION

This report covers all work conducted by BHP Minerals on Exploration Licence (EL) 7730 from 13 July 1995 to 13 July 1996.

This report is submitted directly to the NTDME by BHP Minerals. Total expenditure for the tenement has amounted to $7493 (see Appendix 1).

Work within the tenement during the year has consisted of regional coverage by a 25 Hz GEOTEM electromagnetic survey designed to test for conductive base metal mineralisation. This is the only work to have been conducted within this tenement.

Unfortunately no electrical conductors attributable to base metal mineralisation were generated in the tenement area.

1.1 Location and Access

EL7730 is located approximately 80 km north-northwest of Cape Crawford Roadhouse in the Gulf Region of the Northern Territory.

The licence is located on the southern edge of the Mount Young 1:250,000 map sheet area (Fig. 1).

The licence area is transected by a formed gravel road which runs between Cape Crawford and Nathan River Homestead to the north.

1.2 Tenement Status

EL7730 is held by R Biddlecombe and was granted on 13 July 1992. BHP Minerals has access to explore EL7730 as a result of the Gordons Joint Venture which was established in 1995. Four sub-blocks were relinquished on 11 June 1996.

An adjoining licence, EL8011, is subject to the same arrangement. BHP Minerals also holds an adjoining licence, EL9133.

2. GEOLOGY

Outcropping units on EL7730 include Tawallah Group on the western edge, bounded by the NNW-trending Scrutton Range Fault. A generally WNW-trending antiform of McArthur Group sediments contains exposure of Amelia Dolomite, Tatool Sandstone and Tooganganie Formation. Lower Roper Group sediments are in fault contact with the McArthur Group units.

The Gordons copper prospect is located in the western half of EL8011. Mineralisation is hosted by the Amelia Dolomite, close to an EW-trending fault which separates McArthur Group and Roper Group sediments. It is believed small scale hand mining was conducted during the late 1950’s and early 1960’s.
3. GEOTEM SURVEY

As part of a regional assessment of the McArthur Group sediments in the Mariner/Gordons area, Geoterrex were contracted to fly a regional 25 Hz GEOTEM electromagnetic survey. The survey was flown in 1996 on east-west lines spaced 1 km apart and was designed to test for conductive base metal mineralisation.

Survey specifications are presented in Table 1, a flight line diagram is shown on Figure 2 while TEM profiles are presented in Appendix 2.

The survey clearly identified the conductive Mainoru Formation of the Roper Group but failed to locate any conductive lithologies within the McArthur Group sediments.

4. CONCLUSIONS AND RECOMMENDATIONS

As part of a regional assessment of the base metal potential of the Gordons JV area, a large GEOTEM survey was flown. It was designed to test for conductive base metal mineralisation. Unfortunately no such anomalies were defined within EL 7730 and therefore BHP will not conduct any further exploration within this tenement.
APPENDIX 1

Expenditure Statement
### E7730 - GORDONS NORTH

**13 July 1995 to 12 July 1996**

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<td><strong>TOTAL</strong></td>
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APPENDIX 2

GEOTEM Profiles
X-component channel data
(line 1221)
Z-component
Channel data
(line 1221)
X-component channel data

(line 1231)
Z-component channel data (line 1231)

550000E  552000E
2-component channel data (line 1241)