

**ANNUAL REPORT - EL 7269**

18th June, 1991  
to  
17th June, 1992

**Submitted to:** Department of Mines and Energy  
Mineral House  
Darwin

Ashton Mining Limited  
Perth, Western Australia

July, 1992

## **CONTENTS**

	<b>page</b>
SUMMARY	1
INTRODUCTION	2
EXPLORATION PROGRAMME AND RESULTS	2
(a) Previous Exploration Review	2
(b) Photo Study	2
(c) Stream Sampling Programme	3
(d) Results of Stream Sampling Programme	3
(e) Base Metal Exploration	4
EXPLORATION EXPENDITURE	4
CONCLUSION AND RECOMMENDATIONS	4
PROPOSED PROGRAMME AND BUDGET	5

## **FIGURES**

- 1.- Location Map - EL 7269

## **PLANS**

- 1.- Sample Location Plan - EL 7269

## **APPENDICES**

- I - Sample Results
- II - Statement of Expenditure

SUMMARY

Regional reconnaissance stream sampling has been completed on the licence area to explore for diamonds. No new indicator mineral anomalies were discovered.

Follow-up investigation of known anomalies is recommended for the second reporting period.

## **INTRODUCTION**

Exploration Licence 7269 was granted to Ashton Mining Limited on 18th June, 1991 for a period of 12 months. It covers an area of approximately 1,208 km<sup>2</sup> and is located on the Bauhinia Downs 1:250,000 map sheet (Figure 1).

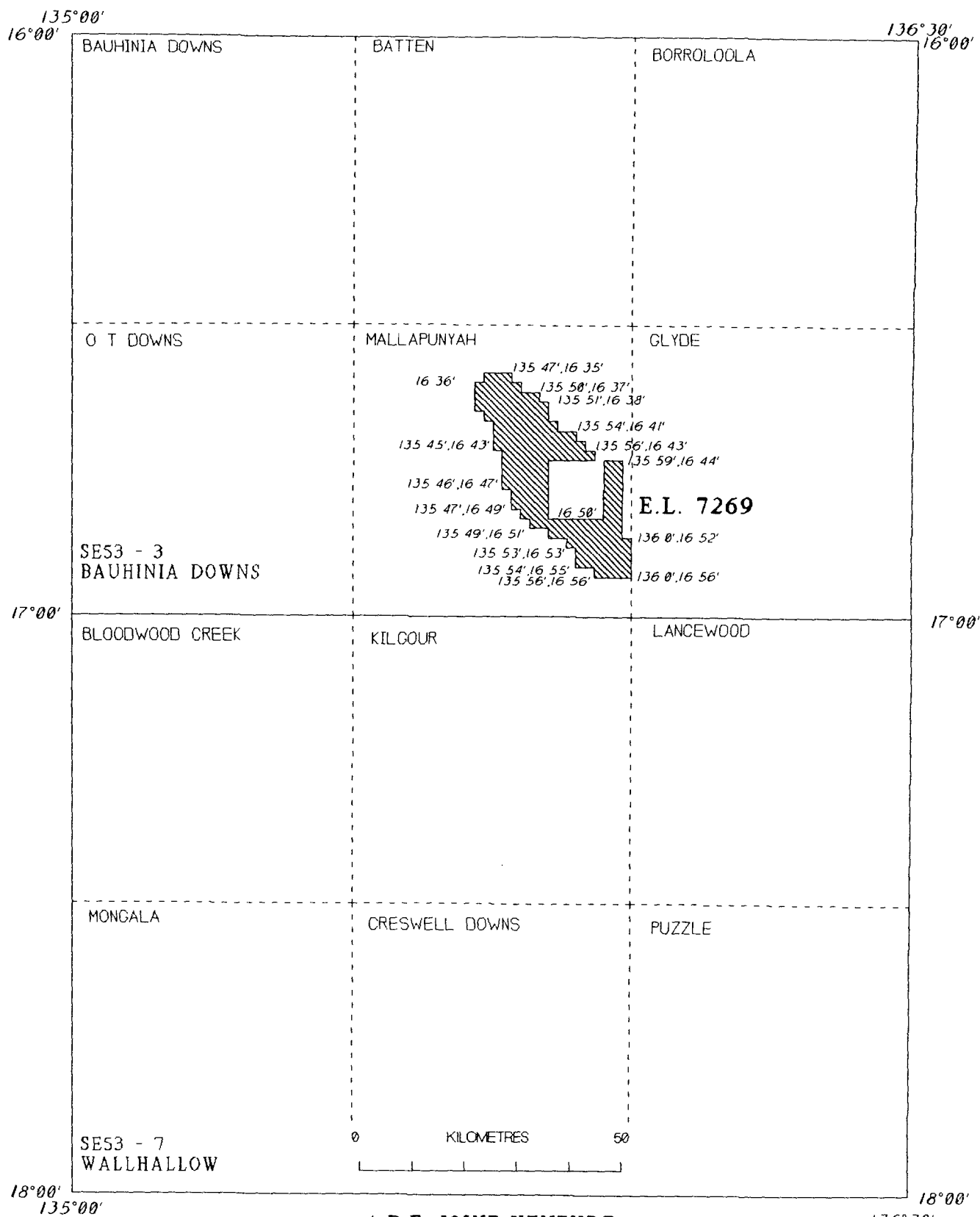
The target for exploration within the licence is diamond bearing kimberlitic intrusives and the principle exploration technique employed has been regional stream sampling.

As this tenement is situated in what is a recognised base metal province a joint venture was negotiated with BHP Minerals which will allow them to earn up to 80% of the base metal rights to EL 7269.

## **EXPLORATION PROGRAMME AND RESULTS**

### **(a) Previous Exploration Review**

Prior to commencing field work, a comprehensive review of previous exploration in the area was undertaken. This highlighted areas which had not been adequately explored, as well as unresolved indicator mineral trails.



A.D.E. JOINT VENTUDE  
ASHTON MINING LIMITED  
FIGURE 1  
LOCATION MAP  
E.L. 7269

JULY, 1992

**(b) Photo Study**

A photo study of the tenements was undertaken by Dr R. Russell, with a view to determining the extent of poorly drained planation surfaces and to highlight possible "intrusive" expressions in the geomorphology. A field inspection of 20 features was made and 18 loam samples were collected. No indicator minerals were recovered.

**(c) Stream Sampling Programme**

As a consequence of (a) and (b) above, a stream sampling programme was planned which concentrated on under sampled areas, especially poorly drained planation surfaces.

The stream sampling was undertaken in 1991 and the sample sites are shown on Plan 1. A total of 65 samples were collected, during this programme.

**(d) Results of Stream and Loam Sampling Programme**

The samples were processed at the Ashton Mining Limited Laboratory in Perth where they were concentrated by Wilfley Table and heavy liquid separation techniques. The heavy liquid used was tetrabromethane with a specific gravity of 2.96. The concentrates were then screened into various size fractions, further concentrated, where

required, by magnetic and electrostatic separation techniques and a comprehensive grain by grain examination carried out on the minus 1.0mm to plus 0.3mm fractions.

Results of sampling are listed in Appendix I. No indicator minerals were recovered.

**e) Base Metal Exploration**

BHP Minerals are currently collating and reviewing all previous exploration on EL 7269 prior to undertaking field work in the second reporting period.

**EXPLORATION EXPENDITURE**

The total exploration expenditure for the reporting period was \$ 36,630. A detailed breakdown of costs is shown in Appendix II.

**CONCLUSION AND RECOMMENDATIONS**

As the only indicator minerals recovered are related to sources considered to be outside the tenement, no further work is warranted.

Base metal investigation will continue, during the second reporting period.

**PROPOSED PROGRAMME AND BUDGET**

**(a) Programme**

The proposed programme for the next reporting period is as follows:

- (i) A review of diamond exploration data will be undertaken to ascertain whether there are further avenues of exploration.
- (ii) Reconnaissance base metal exploration in the form of stream and rock geochemistry will be undertaken.

**(b) Budget**

A budget of \$ 20,000 is envisaged to complete the proposed programme.



**APPENDIX I**  
**SAMPLE RESULTS**

LICENCE	SAMPLE	TYPE	RESULT
7269	BAU00623	G	Negative
7269	BAU00624	G	Negative
7269	BAU00625	G	1 Microdiamond
7269	BAU00626	G	Negative
7269	BAU00627	G	Negative
7269	BAU00628	G	Negative
7269	BAU00630	G	Negative
7269	BAU00631	G	Negative
7269	BAU00633	G	Negative
7269	BAU00634	G	Negative
7269	BAU00635	G	1 Chromite
7269	BAU00637	G	Negative
7269	BAU00638	G	Negative
7269	BAU00639	G	Negative
7269	BAU00640	G	Negative
7269	BAU00641	G	Negative
7269	BAU00642	G	Negative
7269	BAU00643	G	Negative
7269	BAU00647	G	Negative
7269	BAU00649	L	Negative
7269	BAU00650	L	Negative
7269	BAU00651	L	Negative
7269	BAU00652	G	Negative
7269	BAU00653	G	Negative
7269	BAU00654	G	Negative
7269	BAU00656	G	Negative
7269	BAU00657	G	Negative
7269	BAU00658	G	Negative
7269	BAU00659	G	Negative
7269	BAU00660	G	Negative
7269	BAU00661	G	Negative
7269	BAU00662	G	Negative
7269	BAU00663	G	Not processed yet
7269	BAU00664	G	Not processed yet
7269	BAU00665	L	Negative
7269	BAU00666	L	Negative
7269	BAU00667	L	Negative
7269	BAU00668	L	Negative
7269	BAU00669	L	Negative
7269	BAU00670	G	Negative
7269	BAU00671	L	Negative
7269	BAU00672	G	Negative
7269	BAU00673	G	Negative
7269	BAU00675	L	Negative
7269	BAU00676	L	Negative
7269	BAU00678	G	Negative

LICENCE	SAMPLE	TYPE	RESULT
7269	BAU00679	L	Negative
7269	BAU00681	L	Negative
7269	BAU00682	L	Negative
7269	BAU00685	L	Negative
7269	BAU00704	G	Negative
7269	BAU00705	L	Negative
7269	BAU00706	L	Negative
7269	BAU00707	L	Negative
7269	BAU00709	G	Negative
7269	BAU00711	G	Negative
7269	BAU00719	G	Negative
7269	BAU00720	G	Negative
7269	BAU00723	G	Negative
7269	BAU00724	G	Negative
7269	BAU00725	G	Negative
7269	BAU00726	G	Negative
7269	BAU00727	G	Negative
7269	BAU00728	G	Negative
7269	BAU00730	G	Negative

**APPENDIX II**  
**STATEMENT OF EXPENDITURE**

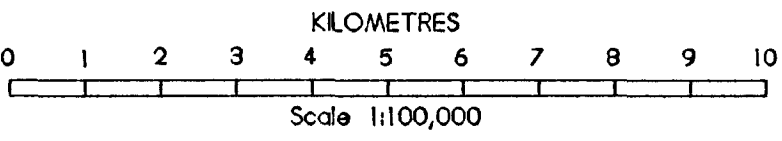
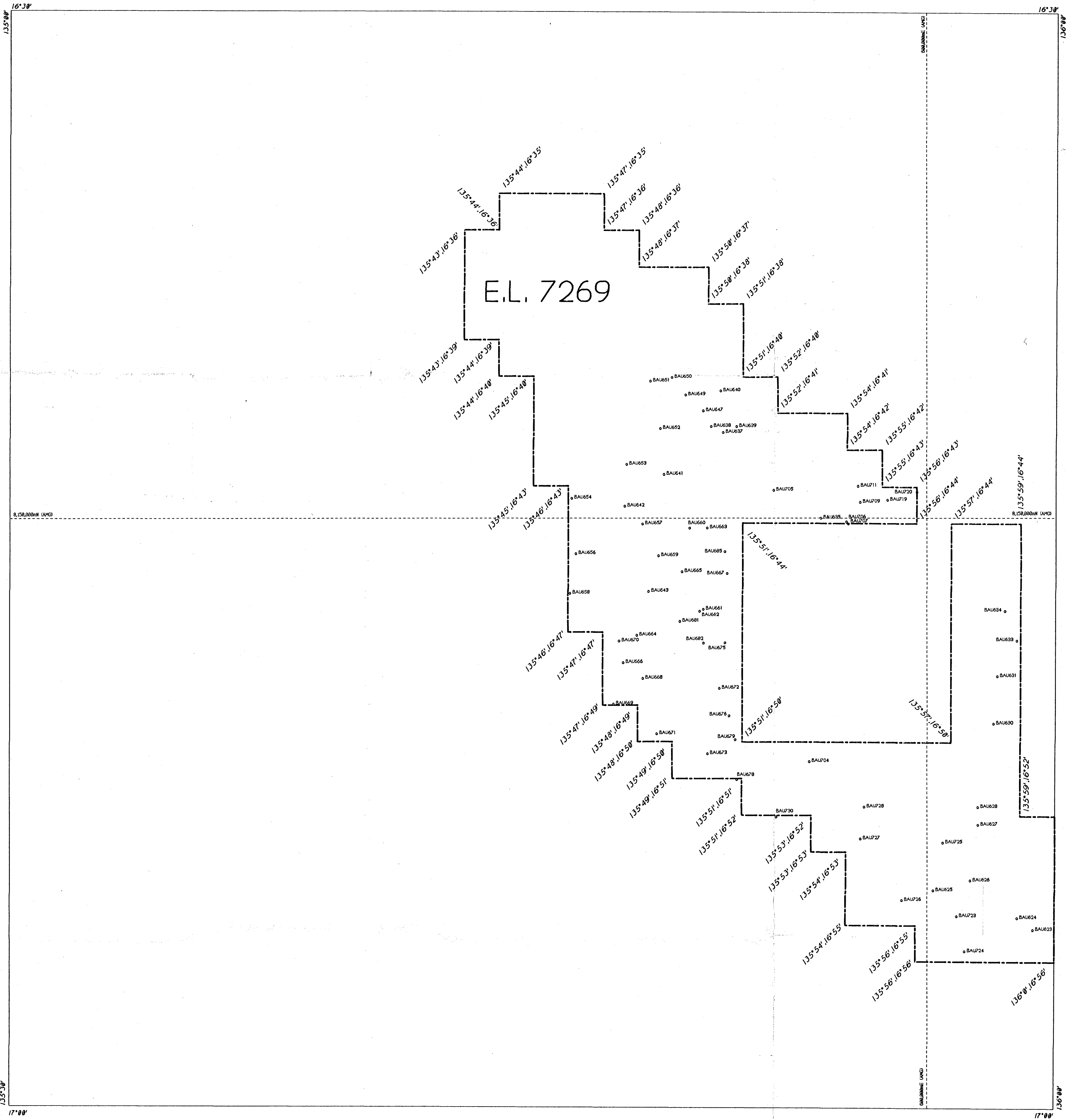
EL 7269

STATEMENT OF EXPENDITURE

For the Period  
18th June, 1991 to 17th June, 1992

Labour	12,400
Field Support	6,500
Air Charter	5,200
Vehicles	2,500
Analyses	-
Geophysics	-
Laboratory	5,200
Drafting	1,500
Overheads	3,330
<b>TOTAL:</b>	<b>\$ 36,630</b>

MALLAPUNYAH



ASHTON MINING LIMITED	
A.D.E. JOINT VENTURE	
ANNUAL REPORT ON	
E.L. 7269	
SAMPLE LOCATIONS	
PLAN 1	
MALLAPUNYAH 1:100,000 / BAU-MA DOWNS 1:250,000	Date: JULY, 1992

CR92/397