# Open File Envelope No. 6654

**EL 1333** 

## WADDIKEE

# PROGRESS REPORTS TO LICENCE SURRENDER FOR THE PERIOD 12/5/1986 TO 30/3/1988

Submitted by Billiton Australia and Western Mining Corp. Ltd 1988

© 13/5/1988

This report was supplied as part of the requirement to hold a mineral or petroleum exploration tenement in the State of South Australia. PIRSA accepts no responsibility for statements made, or conclusions drawn, in the report or for the quality of text or drawings. This report is subject to copyright. Apart from fair dealing for the purposes of study, research, criticism or review as permitted under the Copyright Act, no part may be reproduced without written permission of the Chief Executive of Primary Industries and Resources South Australia, GPO Box 1671, Adelaide, SA 5001.

Enquiries: Customer Services Branch

Minerals and Energy Resources

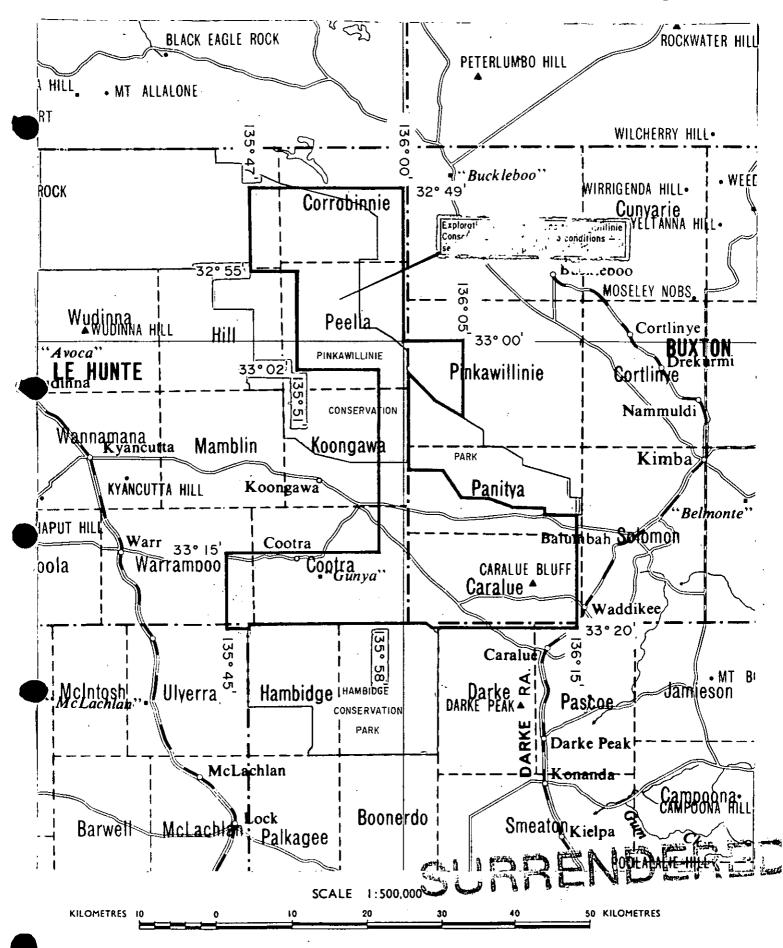
7th Floor

101 Grenfell Street, Adelaide 5000

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



## SCHEDULE A



APPLICANT: THE SHELL COMPANY OF AUSTRALIA LIMITED

DME 334/85 AREA: ... | 144 square kilometres (approx.)

1:250000 PLANS: KIMBA YARDEA

LOCALITY: WADDIKEE AREA — approx. 150 km west of Whyalla

DATE GRANTED: 12 5 86 DATE EXPIRED: 11 5 8788 EL No: 1333

## CONTENTS ENVELOPE 6654

TEMENENT: E.L. 1333 Waddikee.

TENEMENT HOLDER: Billiton Australia.

REPORT:	Quarter Ending 11 August 1986.	Pgs. 3 - 12
PLANS:	Location Plan. A/MT22/137.	Pg. 10
	Tenements Search.	Pg. 11
REPORT:	Quarter Ending 11 November 1986.	Pgs. 13 - 19
PLANS:	Previous Exploration Licences. A/FD 08/001.	Pg. 20
REPORT:	Quarter Ending 11 February 1987.	Pgs. 21 - 25
		•
REPORT:	Quarter Ending 11 May 1987.	Pgs. 26 - 27
·		
REPORT:	Quarter Ending 11 August 1987.	Pgs. 28 - 29
REPORT:	Quarter Ending 11 November 1987.	Pgs. 30 - 31
REPORT:	Quarter Ending 11 February 1988.	Pgs. 32 - 33

### BILLITON AUSTRALIA

#### THE METALS DIVISION OF THE SHELL COMPANY OF AUSTRALIA LTD

WADDIKEE EL 1333, SOUTH AUSTRALIA

PROGRESS REPORT FOR THE QUARTER ENDING 11 AUGUST 1986

AUTHOR: R. C. BERG DATE: AUGUST 1986

REPORT NO. 08.3342

#### Distribution:

Copy 1: Dept of Mines & Energy SA

Copy 2: Billiton/Melbourne
Copy 3: Billiton/Adelaide



## LIST OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	GEOLOGICAL SETTING AND CONCEPTS	2
3.0	PREVIOUS EXPLORATION	3
4.0	EXPENDITURE STATEMENT	4

## LIST OF FIGURES

Figure No.	Title	Scale	Drawing No.
1	Waddikee EL 1333, Location Plan	1:500 000	A/MT22/137
. 2	Waddikee, Tenements Search	1:500 000	

#### 1.0 INTRODUCTION

EL 1333, Waddikee, was granted on 12 May 1986 to Billiton Australia, The Metals Divison of The Shell Company of Australia Limited. The area measures approximately 1144 km², and is located 150 km west of Whyalla (Figure 1).

The Pinkawillinie Conservation Park covers part of the licence area.

#### 2.0 GEOLOGICAL SETTING AND CONCEPTS

The area is typified by poor outcrop of Lower Proterozoic Hutchison Group and basement gneisses.

The regional BMR aeromagnetic survey indicates the presence of weakly magnetic linear trends that could represent Hutchison Group metasediments under shallow cover. The southwest corner of the licence has been previously explored by BHP and flown with detailed aeromagnetics.

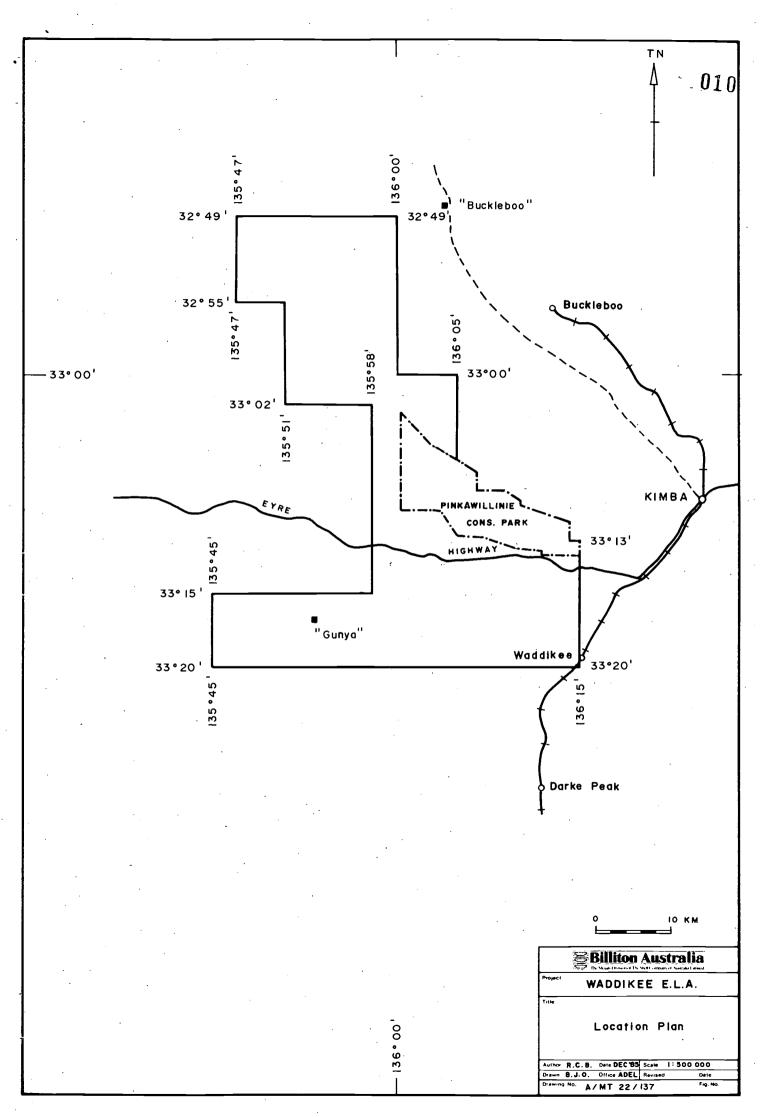
The chemical sediments of the Hutchison Group are considered to be prospective for massive Pb-Zn mineralisation of Broken Hill (NSW) and Balmat-Edwards (USA) type.

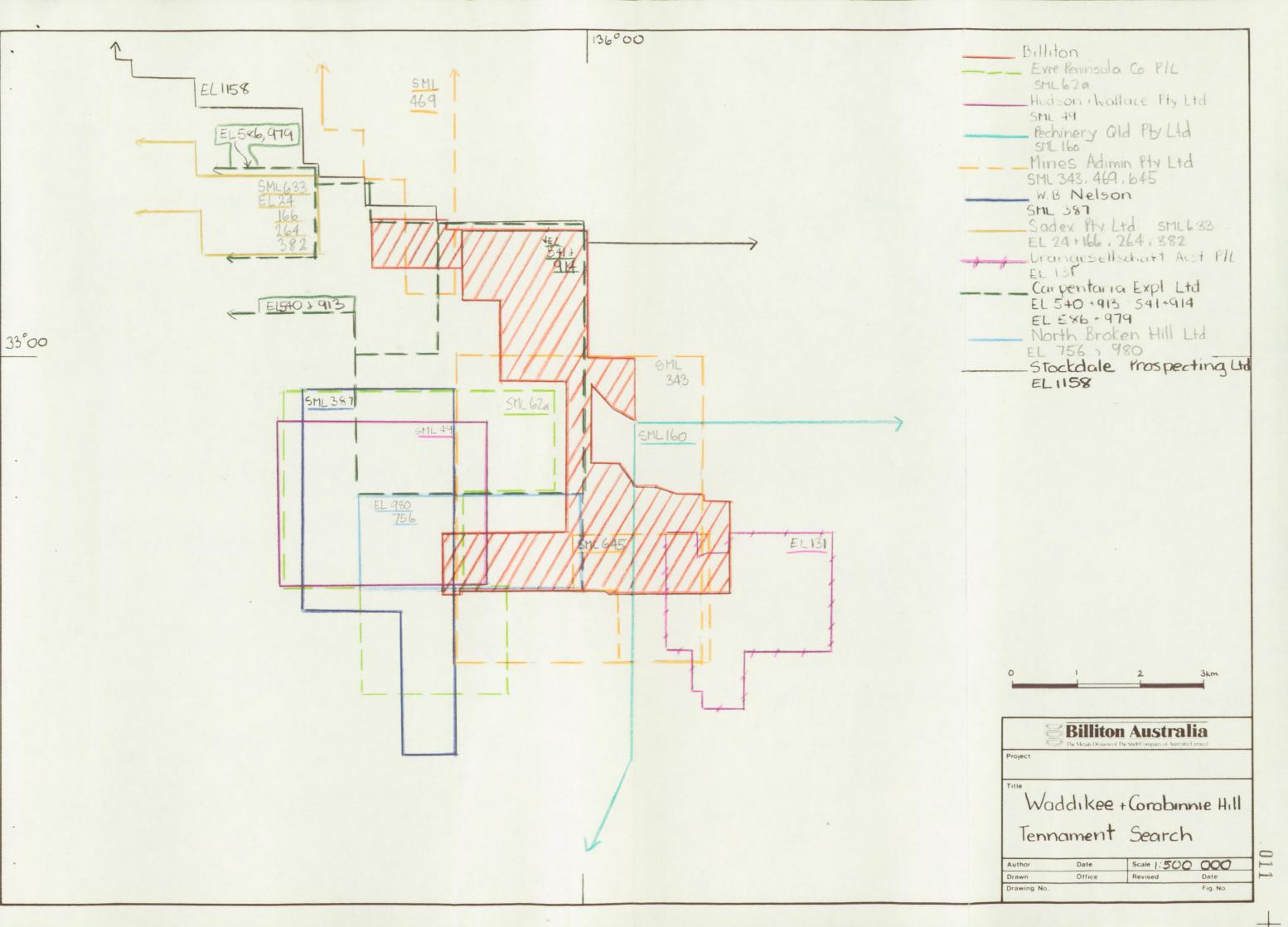
## 3.0 PREVIOUS EXPLORATION

A search of previous titles and acquisition of relevant exploration data has been initiated (Figure 2). A review of all data is still in progress and will be described in the second quarterly report.

## 4.0 EXPENDITURE STATEMENT

	Expenditure for Quarter Ending 30 June 1986	Project to Date
Staffing/Support	858	3 347
Concession Payments	4	2 120
Geology, Geophysics, Drawing, Research and Computer		436
Overheads		302
•		
•	\$ 862	\$ 6 205





## SHELL METALS REPORT DATABASE - DATA INPUT SHEET

CHAPTER	NAME:
(Office	use only)
TITLE	WADDIKEE EL 1333, SOUTH AUSTRALIA, PROGRESS REPORT FOR
<del></del>	QUARTER ENDING 11 AUGUST 1986
DATE	27 / 8 / 86 (Publication date in Format dd/mm/yy)
AUTHOR	R. C. BERG
SOURCE	(If Non-SCOA)
DESCRIPT	OR (Not indexed)
PROSPECT,	/PROJECT
<del>-</del> -	WADDIKEE EL 1333, SOUTH AUSTRALIA
ŒYWORDS	
BASE MET	CAL EXPLORATION, LOWER PROTEROZOIC, REGIONAL AEROMAGNETICS,
PREV IOUS	S EXPLORATION REVIEW
OCATION	
WADDIKEE	EL 1333, SOUTH AUSTRALIA, GAWLER CRATON
HEET NAM	<u>Æ</u> (1:250,000)
KIMBA SI	-53-7, YARDEA SI-53-3
EPORT M	(Not indexed)
08.3342	



#### BILLITON AUSTRALIA

## THE METALS DIVISION OF THE SHELL COMPANY OF AUSTRALIA LTD

## WADDIKEE EL 1333, SOUTH AUSTRALIA

SECOND PROGRESS REPORT FOR THE QUARTER ENDING 11 NOVEMBER 1986

AUTHOR:

R. C. BERG

REPORT NO. 08.3474

DATE: DECEMBER 1986

#### Distribution:

Copy 1: Dept of Mines & Energy SA

Copy 2: Billiton/Melbourne Copy 3: Billiton/Adelaide



## LIST OF CONTENTS

			Page
1.0	INTRODUCTION		1
2.0	PREVIOUS EXPLORATION	•	2
3.0	EXPENDITURE STATEMENT		3.

## · LIST OF FIGURES

Figure No.	Title	Scale	Drawing No.
1	Waddikee EL 1333, Location Plan	1:500 000	A/MT22/137
2	Waddikee, Tenements Search	1:500 000	A/FD08/001

#### 1.0 INTRODUCTION

EL 1333, Waddikee, was granted on 12 May 1986 to Billiton Australia, The Metals Divison of The Shell Company of Australia Limited, and negotiations are pending with prospective joint venture partners for the area. The future exploration programme will very depend very much on the outcome of the negotiations.

A brief study of previous work has been completed in this second reporting period from 12 August to 11 November 1986.

# PREVIOUS EXPLORATION

Previous investigations in the area consisted mainly of uranium exploration and are not of great interest to our programme. However, the data were scanned and are briefly summarised below:

# SUMMARY OF PREVIOUS EXPLORATION

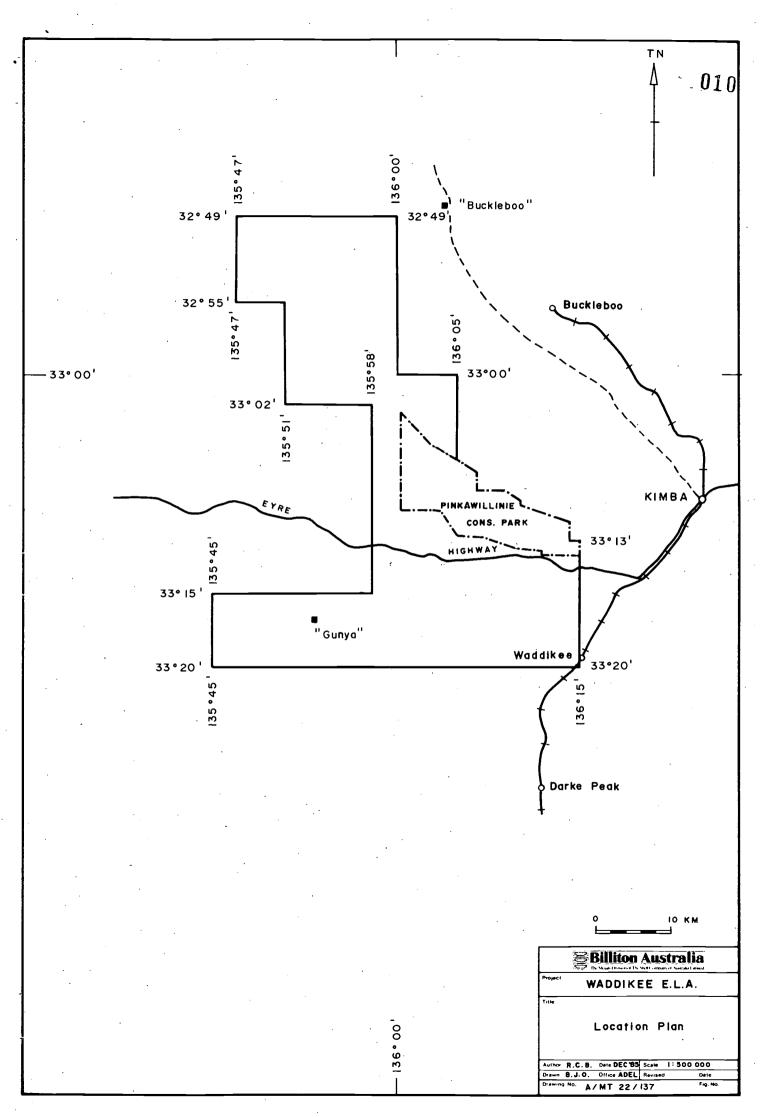
SUMMAKI	
Reference Licence Company & Dates  Env.4230 E1 756 North Broken Hill 1981-1983, after 8/82 CRAE JV - Aeromag/radiometric survey tested by shallow drilling gave elevated Zn (500 ppm). Bedrock at 15 m, with calcaliticate, graphitic schist, granite gneiss.  DH C1 (121.9 m) scheelite granulite, followed up by 7 DDH and downgraded.  Re-assay of Warramboo DDH Au - low results.  Selected magnetic/Ip profi  - U exploration by drilling holes failed to locate part channels. Exploration metalized basement at 15 m.  Granite basement at 15 m.	or Les. 38 ae0-
Env.1331 EL 387 W.B. Nelson 1963 - Ground magnetic survey over BIF (inferred to be depth). Outside Waddike depth). Outside Waddike rock chip sampling and rock chip sampling and 8 metric traverses, and 8	at e EL. ing, adio- shal-
Env. 1326 SML 343 Mines Administrat- ion P/L - 1970  Env. 1326 SML 343 Mines Administrat- gravity, 26 holes (358)	nd e e1 by

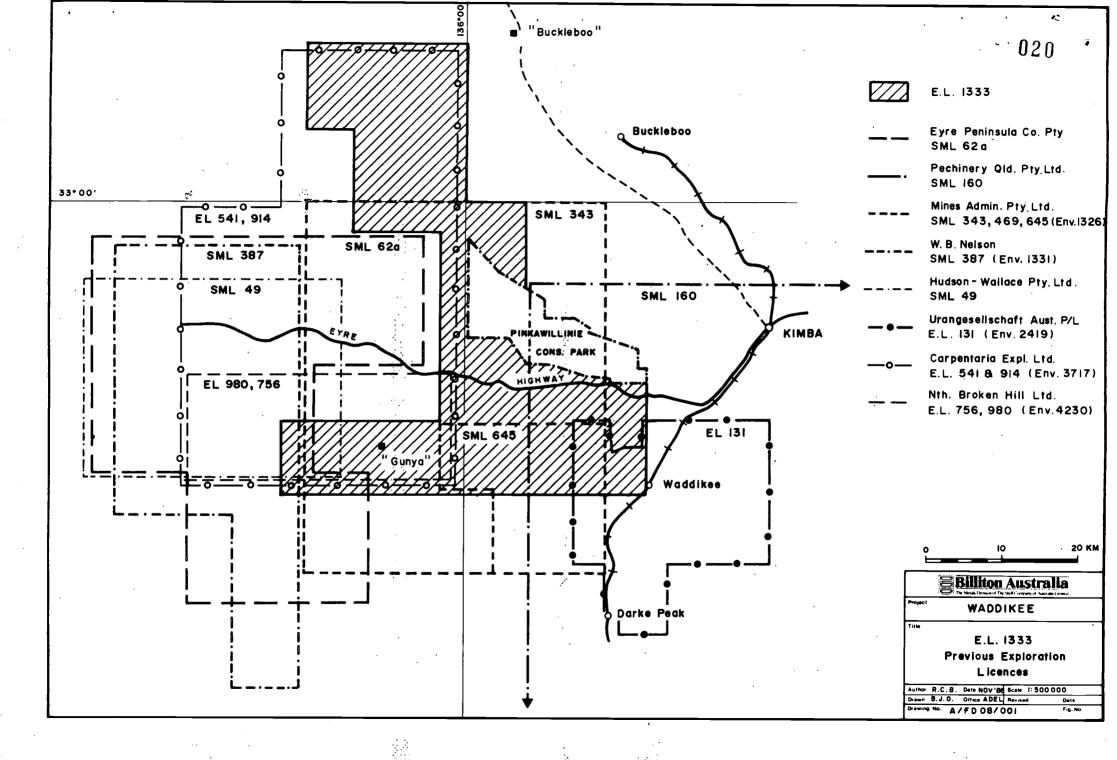
## 3.0 EXPENDITURE STATEMENT

	Expenditure for Quarter Ending 30 Sept 1986	Project to Date
Staffing/Support	1 618	4 965
Concession Payments		2 120
Geology, Geophysics, Drawing, Research and Computer	112	. 548
Overheads	116	418
•	\$ 1 846	\$ 8 051

## SHELL METALS REPORT DATABASE - DATA INPUT SHEET

	R NAME:	
(Office	e use only)	
< a < = a = =		/ ====
TITLE	WADDIKEE EL 1333, SOUTH AUSTRALIA, PROGRESS REPORT FOR	
	QUARTER ENDING 11 NOVEMBER 1986	
DATE	E 9/12/86 (Publication date in Format dd/mm/yy)	
	du/mayyy	•
AUTHOR	R. C. BERG	
SOURCE	(If Non-SCOA)	
3001022	(11 NON-3COA)	
<del></del>	_ <del>`</del>	
DESCRIP	PTOR (Not indexed)	
	•	
ROSPECT	T/PROJECT	•
WADDIKE	EE EL 1333, SOUTH AUSTRALIA	
WIDDIA	ED ED 1999, SOUTH AUSTRALIA	
EYWORDS	ys.	
BASE ME	ETAL EXPLORATION, LOWER PROTEROZOIC, REGIONAL AEROMAGNET	TCC
		103
- TREVIOU	US EXPLORATION REVIEW	_
<del></del> -		
· <u></u>	<u> </u>	
OCATION	<u>и</u>	
WADDIKE	EE EL 1333, SOUTH AUSTRALIA, GAWLER CRATON	
	AME (1:250,000)	
KIMBA S	S1 53-7, YARDEA S1 53-3	
PORT No.	(Not indexed)	





## BILLITON AUSTRALIA

#### THE METALS DIVISION OF THE SHELL COMPANY OF AUSTRALIA LTD

WADDIKEE EL 1333, SOUTH AUSTRALIA

THIRD PROGRESS REPORT FOR THE QUARTER ENDING 11 FEBRUARY 1987

AUTHOR: DATE: R. C. BERG FEBRUARY 1987 REPORT NO. 08.3592

#### Distribution:

Copy 1: Dept of Mines & Energy SA

Copy 2: Billiton/Melbourne Copy 3: Billiton/Adelaide

Copy 4: WMC/Pasadena



## LIST OF CONTENTS

			Page
1.0	INTRODUCTION		1
2.0	EXPENDITURE STATEMENT	•	2

## LIST OF FIGURES

Figure No.	Title	Scale	Drawing No.
1	Waddikee EL 1333, Location Plan	1:500 000	A/MT22/137

#### 1.0 INTRODUCTION

EL 1333, Waddikee, was granted on 12 May 1986 to Billiton Australia, The Metals Divison of The Shell Company of Australia Limited.

Only a brief study of previous work has been completed to date.

During the current reporting period from 12 November 1986 to 11 February 1987, negotiations with our new joint venture partner, the Western Mining Corporation, have been finalised.

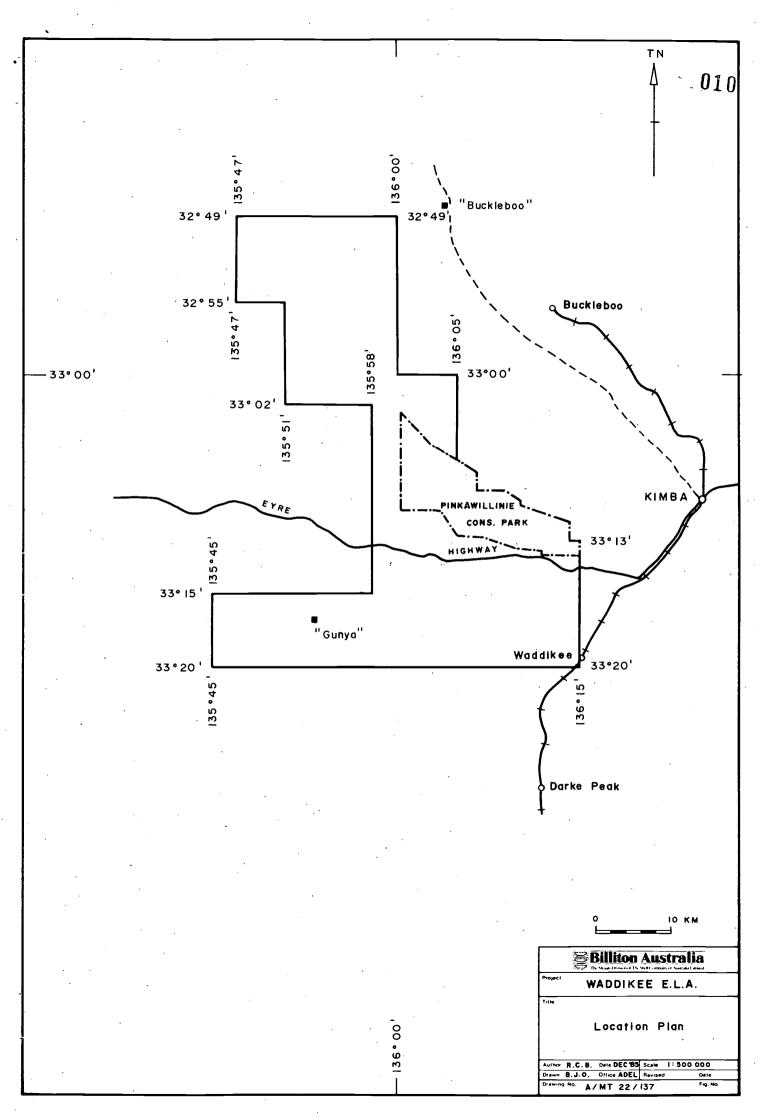
Results of programme and reports will, in future, be completed and submitted by WMC.

## 2.0 EXPENDITURE STATEMENT

	Expenditure for Quarter Ending 31 Dec. 1986	Project to Date
Staffing/Support	1 272	6 238
Concession Payments	·	2 120
Geology, Geophysics, Drawing, Research and Computer	140	688
Overheads	107	525
	\$ 1 519	\$ 9 571

## SHELL METALS REPORT DATABASE - DATA INPUT SHEET

(Office use only)
•
TITLE WADDIKEE EL 1333, SOUTH AUSTRALIA, PROGRESS REPORT FOR
THE QUARTER ENDING 11 FEBRUARY 1987
DATE 17 / 2 / 87 (Publication date in Format dd/mm/yy)
AUTHOR R. C. BERG
SOURCE (If Non-SCOA)
DESCRIPTOR (Not indexed)
PROSPECT/PROJECT WADDIKEE EL 1333, SOUTH AUSTRALIA
WADDINEE BE 1333, SOOTH AGGINABIA
KEYWORDS  BASE METAL EXPLORATION. LOWER PROTEROZOIC, REGIONAL AEROMAGNETICS
DASE METAL EXPLORATION. LOWER PROTEROZOTO, REGIONAL REPOPROBLETO.
PREVIOUS EXPLORATION REVIEW, JOINT VENTURE NEGOTIATIONS
LOCATION  WADDIKEE EL 1333, SOUTH AUSTRALIA, GAWLER CRATON
missings by 1999, booth hootiging, similar states
SHEET NAME (1:250,000)
KIMBA S1 53-7, YARDEA S1 53-3
REPORT M.(Not indexed) 08.3592



# WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

PROGRESS REPORT
FOR

EXPLORATION LICENCE 1333 - WADDIKEE
FOR QUARTER ENDING 11TH MAY, 1987



JULY, 1987

H. L. PATERSON
OFFICER-IN-CHARGE - SOUTH AUSTRALIA



#### 1. INTRODUCTION

Exploration Licence 1333, Waddikee, was granted to Billiton Australia on 12th May, 1986. During the quarter, a joint venture was negotiated between Billiton Australia and Western Mining Corporation Limited to explore this and other Exploration Licences on the Eyre Peninsula, with WMC assuming management of the programs formerly operated by Billiton. The joint venture commenced on 1st February, 1987. Extension of the licence until 11th May, 1988 was granted on 30th April, 1987.

#### 2. WORK COMPLETED

There has been no fieldwork during the quarter. Project activity has been limited to Joint Venture negotiations and to examination and assessment of the Billiton data by W.M.C.

## 3. FUTURE PROGRAM

Work in the next quarter will include assessment of all existing results and selection of targets for further exploration where warranted.

### 4. EXPENDITURE REPORT

	Three Months ending 31st March, 1987	Project to Date
Staffing/Support Concession Payments Geology, Geophysics, Drawing,	41	6,279 2,120
Research, Computing Overheads	- 16	688 541
TOTAL	\$57 ===	\$9,628 =====

These figures represent the last significant expenditure by Billiton Australia on this Licence. Future reports will be based on W.M.C. expenditures.

## WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

PROGRESS REPORT

FOR

EXPLORATION LICENCE 1333 - WADDIKEE

FOR QUARTER ENDING 11TH AUGUST, 1987



**AUGUST, 1987** 

H. L. PATERSON OFFICER-IN-CHARGE - SOUTH AUSTRALIA

#### 1. INTRODUCTION

Exploration Licence 1333, Waddikee, was granted to Billiton Australia on 12th May, 1986. A joint venture was negotiated in February, 1987 between Billiton Australia and Western Mining Corporation Limited to explore this and other Exploration Licences on the Eyre Peninsula, with W.M.C. assuming management of the programs formerly operated by Billiton. The Joint Venture commenced on 1st February, 1987. Extension of the licence until 11th May, 1988 was granted on 30th April, 1987.

## 2. WORK COMPLETED

There has been no fieldwork during the quarter. Project activity has been limited to examination and assessment of the Billiton data by W.M.C.

## 3. <u>FUTURE PROGRAM</u>

Work in the next quarter will include continued assessment of all existing results and selection of targets for further exploration where warranted.

### 4. EXPENDITURE REPORT

Expenditure by Shell on this licence area prior to WMC assuming management of the joint venture was \$9,628.

•	Quarter ending	Cumulative to June 30, 19	
	June 30, 1987		%
Geology	965	965	15.6
Geophysics	1,246	1,246	20.0
Geochemistry	. 71	71	1.1
Drafting	738	738	11.9
Leasing	2,361	2,361	37.9
Administration	843	843	13.5
TOTAL	\$6 <b>,</b> 224	\$6,224	100.0%
	=====	=====	======

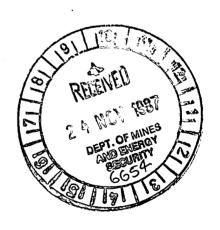
## WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

PROGRESS REPORT

FOR

EXPLORATION LICENCE- 1333 - WADDIKEE

FOR QUARTER ENDING 11TH NOVEMBER, 1987



NOVEMBER, 1987

H. L. PATERSON OFFICER-IN-CHARGE - SOUTH AUSTRALIA

#### 1. INTRODUCTION

Exploration Licence 1333, Waddikee, was granted to Billiton Australia on 12th May, 1986. A joint venture was negotiated in February, 1987 between Billiton Australia and Western Mining Corporation Limited to explore this and other Exploration Licences on the Eyre Peninsula, with W.M.C. assuming management of the programs formerly operated by Billiton. The Joint Venture commenced on 1st February, 1987. Extension of the licence until 11th May, 1988 was granted on 30th April, 1987.

#### 2. WORK COMPLETED

There has been no fieldwork during the quarter. Project activity has been limited to examination and assessment of the Billiton data by W.M.C., and to consideration of the requirement to obtain good quality aerial magnetic data over the Licence area.

#### 3. FUTURE PROGRAM

Work in the next quarter will include continued assessment of all existing results and selection of targets for further exploration where warranted.

#### 4. EXPENDITURE REPORT

Expenditure by Shell on this licence area prior to WMC assuming management of the joint venture was \$9,628.

•	Quarter ending	Cumulative to September 22, 1987	
	September 22, 1987	<u>\$</u>	<u>%</u>
Geology	653	1,618	23.2
Geophysics	.er <u></u>	1,246	. 17 <b>.</b> 8
Geochemistry	-	71	1.0
Drafting	_	738	10.6
Leasing	-	2,361	33.8
Administration	103	946	13.6
TOTAL	\$756	<b>\$6,980</b>	100.0%
	====	======	

## WESTERN MINING CORPORATION LIMITED EXPLORATION DIVISION

PROGRESS REPORT

FOR

EXPLORATION LICENCE- 1333 - WADDIKEE

FOR QUARTER ENDING 11TH FEBRUARY, 1988



FEBRUARY, 1988

H. L. PATERSON
SENIOR SUPERVISING GEOLOGIST - SOUTH AUSTRALIA

#### 1. INTRODUCTION

Exploration Licence 1333, Waddikee, was granted to Billiton Australia on 12th May, 1986. A joint venture was negotiated in February, 1987 between Billiton Australia and Western Mining Corporation Limited to explore this and other Exploration Licences on the Eyre Peninsula, with W.M.C. assuming management of the programs formerly operated by Billiton. The Joint Venture commenced on 1st February, 1987. At the end of the first J.V. year, WMC advised Billiton that it would continue the J.V. only with respect to the Wilcherry Hill E.L., so that administration of the remaining E.L.'s would revert to Billiton as of that date. This report therefore finalises WMC's involvement with the licence, and future reports will be submitted by Billiton.

### 2. WORK COMPLETED

There has been no fieldwork during the quarter. Project activity has been limited to examination and assessment of the Billiton data by W.M.C., and to consideration of the requirement to obtain good quality aerial magnetic data over the Licence area. It was decided to await results of the proposed S.A.D.M.E. aeromagnetic survey, and with the decision to relinquish W.M.C.'s interest in this licence no further work was carried out.

## 3. <u>FUTURE PROGRAM</u>

Work in the next quarter will be reported separately by Billiton.

## 4. EXPENDITURE REPORT

Expenditure by Shell on this licence area prior to WMC assuming management of the joint venture was \$9,628.

	· <del>·</del> ·.	Quarter ending February 9, 1987	Cumulative to Feb	9, 1988 <u>%</u>
Geology		168	1,786	24.4
Geophysics		107	1,353	18.5
Geochemistry		3	74	1.0
Drafting		21	75 <b>9</b>	10.3
Leasing		14	2,375	32.4
Administration		35	981	13.4
TOTAL		\$348	<b>\$7,</b> 328	100.0%
			======	======