Open File Envelope No. 4449

EL 894 AND EL 1188

ANN HILL

PROGRESS REPORTS TO LICENCE EXPIRY/SURRENDER FOR THE PERIOD 28/9/1981 TO 26/7/1986

Submitted by BHP Minerals Ltd and Esso Australia Ltd 1986

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Enquiries: Customer Services Branch

Minerals and Energy Resources

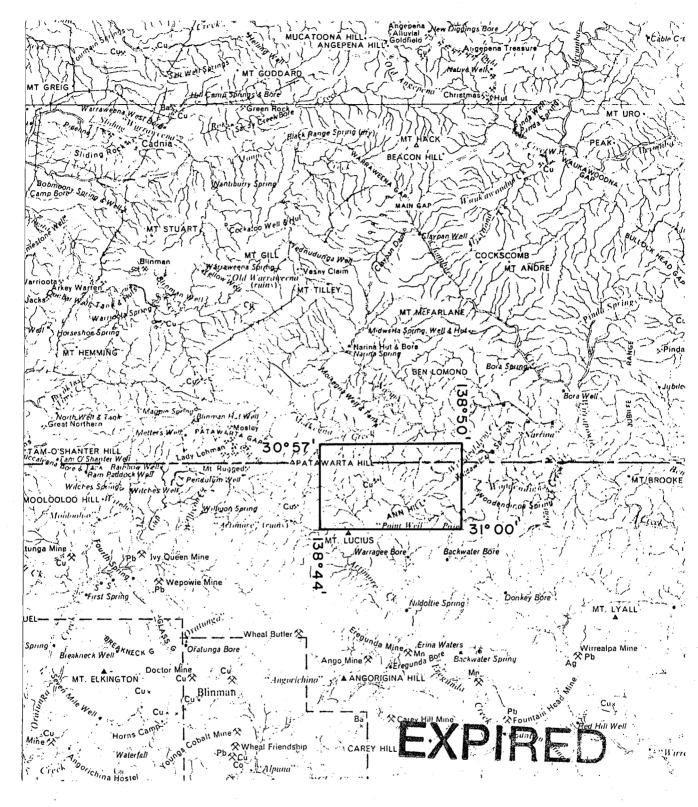
7th Floor

101 Grenfell Street, Adelaide 5000

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



SCHEDULE A



REAPP DM 245/83

square kilometres

SCALE 1:250,000 25 KILOMETRES KILOMETRES 5

MINERALS LIMITED

APPLICANT: DAMPIER MINING COMPANY LIMITED

1:250000 PLANS: COPLEY

DM: 332/81

HILL AREA - Approx. 60km S.E. of LOCALITY: ANN

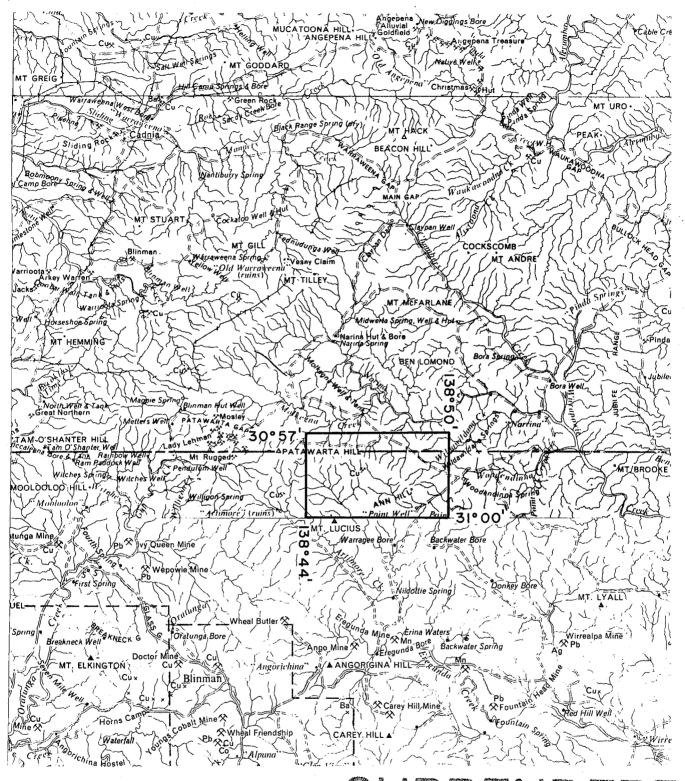
DATE GRANTED: 28.9.81

DATE EXPIRED: 27.9.8/283.

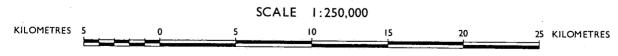
AREA: 53

EL No: 894

SCHEDULE A.



square kilometres (approx.)



APPLICANT: BHP MINERALS LIMITED

1:250 000 PLANS: COPLEY

DM: 245/83

LOCALITY: ANN HILL AREA - Approx. 60km southeast of Copley

DATE GRANTED: 27-10-83

AREA: **53**

DATE EXPIRED: 26-10-84 86 ND EL No: 1188

ENVELOPE 4449

TENEMENT:

EL 894, Ann Hill (located SE of Copley)

TENEMENT HOLDER:

BHP Minerals Ltd; Esso Exploration and Production Inc.

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ANN HILL, SOUTH AUSTRALIA

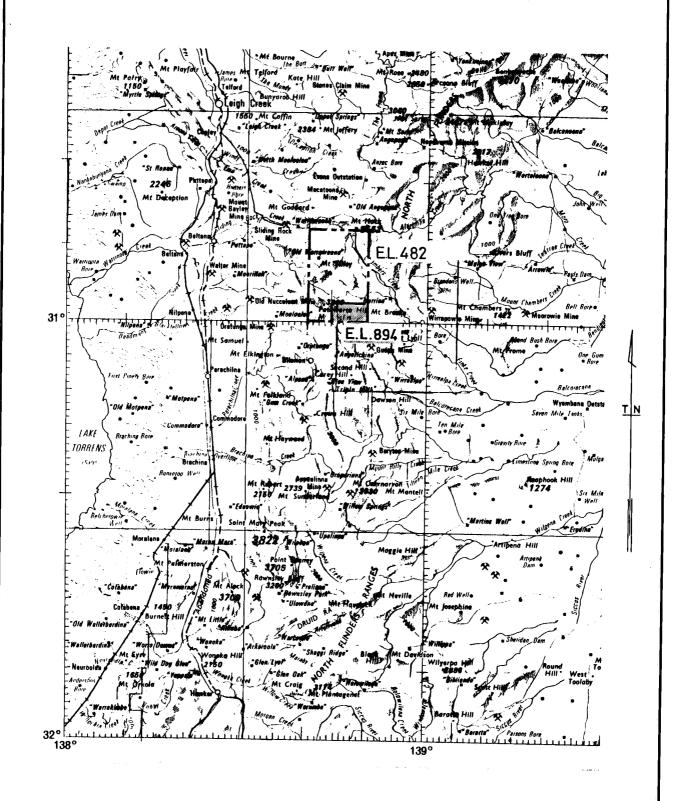
REPORT FOR THE QUARTER ENDED 28th DECEMBER, 1981

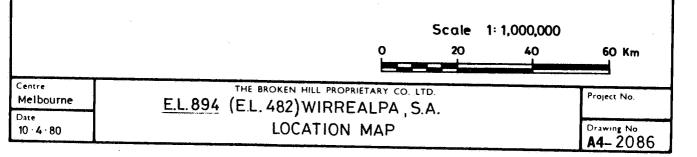
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2.	Geology (Photo Interpretation)	A2-1861





ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 28th DECEMBER, 1981

1. GENERAL

Exploration Licence 894 was granted to BHP Minerals Limited for one year commencing on 28th September, 1981. (see Figure 1). It was held formerly by BHP as part of E.L. 482, Wirrealpa North.

Our major interest in the area is its possibilities for a Mississippi Valley type lead, zinc deposit within the Lower Cambrian limestone units. Exploration is being carried out in conjunction with work in the adjacent tenement, E.L. 809 Wirrealpa, also held by BHP Minerals Limited.

2. WORK COMPLETED

Due to commitments in other areas, no field work was carried out during this quarter.

Geological photo interpretation of the Cambrian units was completed. (see Figure 2). Colour aerial photography at 1:10,000 scale was undertaken over the area in early 1980 when held under E.L. 482.

3. WORK PROPOSED

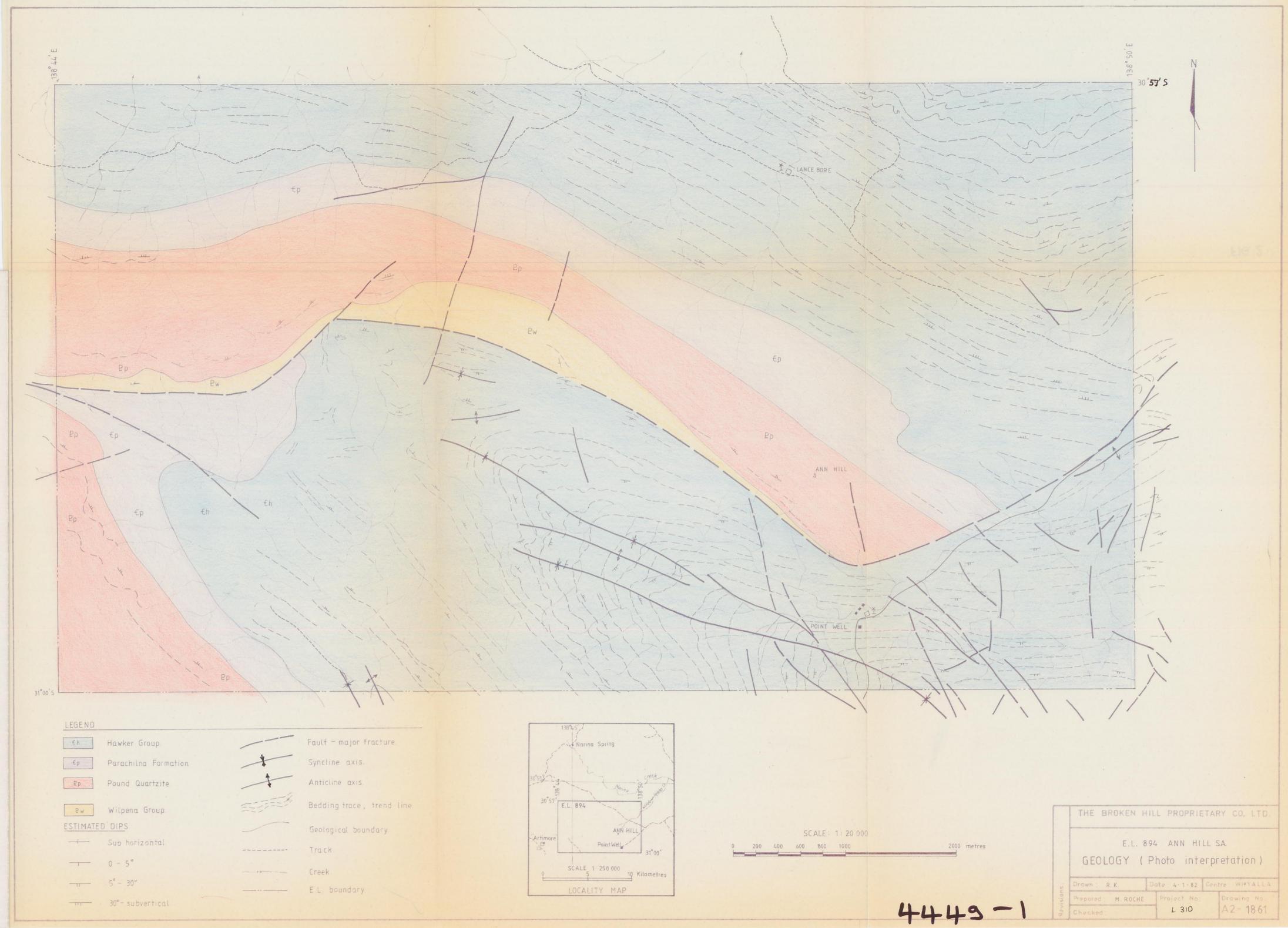
- 1. Geological mapping to supplement photo interpretation.
- Stream sediment sampling over selected areas.
- 3. Prospecting for surface indications of base metal mineralization.

4. EXPENDITURE

Expenditure debited to E.L. 894 to 30th November, 1981, was:

Messing and Accommodation	\$354
Fares and Mobilisation	89
Drilling	85
Transport	9
Sample Analysis	26
Occupancy/Location Expenses	31
Administration/Overheads	30
	\$624

This report is submitted to the Department of Mines and energy as required by Condition 4 of Exploration Licence 894.



ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 28TH MARCH 1982

1. GENERAL

Exploration Licence 894 was granted to BHP Minerals Ltd. for one year commencing on 28th September, 1981. The area was held formerly by BHP as part of E.L. 482, Wirrealpa North.

E.L. 894 is being explored in conjunction with the adjacent tenement, E.L. 809 Wirrealpa, also held by BHP Minerals Ltd.

2. FIELD INVESTIGATIONS

Due to commitments in adjacent tenements, no field work was undertaken during this quarter.

3. EXPENDITURE

Expenditure debited to E.L. 894 during December, 1981, and January and February, 1982, was:-

\$ 939
162
55
\$1156

Total expenditure to 28th February, 1982, is \$1780.



This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licence 894.

ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 28TH JUNE, 1982

1. GENERAL

Exploration Licence 894 was granted to BHP Minerals Ltd for one year on 28th September, 1981. The area was formerly held by BHP Minerals Ltd as part of E.L. 482 Wirrealpa North.

2. INVESTIGATIONS

Due to commitments in adjacent tenements, no field work was undertaken during this period.

3. EXPENDITURE

Expenditure debited to E.L. 894 during March, April, May, 1982, was:

Wages and Salaries	\$1,861
Messing and Accommodation	3.53
Fares and Mobilisation	40
Surveying/Aerial Photographs	2 .8
Tenement Fees, Licences, etc.	40
Administration and Overheads	116
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	\$2,438

Total expenditure to 31st May, 1981 is \$4,218.



This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licence 894.

ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 28th SEPTEMBER, 1982

1. GENERAL

Exploration Licence 894 of 53 square kilometres was granted to BHP Minerals Limited for one year on 28th September, 1981. The area was formerly held by BHP Minerals Limited as part of E.L. 482 Wirrealpa North.

Renewal for a further year to 28th September, 1983, has been granted.

2. INVESTIGATIONS

Due to commitments in adjacent tenements, no field work was undertaken during this quarter.

3. EXPENDITURE

Expenditure debited to E.L. 894 during June, July and August, 1982, was:

Fares and Mobilisation	\$ 64
Messing and Accommodation	174
Transport	17
Administration and Overheads	13
	\$268

Total expenditure to 31st August, 1982, is \$4,486



This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licence 894.

ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 28TH DECEMBER 1982

1. GENERAL

Exploration Licence 894 was granted to BHP Minerals Limited for one year on 28th September, 1981 and was renewed for a further year on 28th September, 1982.

2. FIELD INVESTIGATIONS

Due to commitments in adjacent tenements no field work was undertaken during this quarter.

3. EXPENDITURE

Expenditure debited to E.L. 894 during September, October and November, 1982, was

Wages and Salaries	\$1,470
Messing & Accommodation	867
Fares and Mobilisation	20
Transport	29
Tenement Fees, Licences, etc.	103
Administration & Overheads	124
	\$2,613

Total expenditure to 30th November, 1982 is \$7,099.



This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licence 894.

EXPLORATION LICENCE 894 ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 28TH MARCH 1983

1. GENERAL

Exploration Licence 894 of 53 square kilometres was granted to BHP Minerals Limited for one year on 28th September, 1981 and was renewed for a further year on 28th September, 1982.

2. FIELD INVESTIGATIONS

Due to commitments in adjacent tenements no field work was undertaken during this quarter.

3. EXPENDITURE

Expenditure debited to E.L. 894 during December, 1982 and January and February, 1983, was

Wages and Salaries	\$1,452
Messing and Accommodation	96
Transport	168
Administration & Overheads	85
	\$1,801

Total expenditure to 28th February, 1982 is \$8,900.



This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licence 894.

ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 28th JUNE, 1983

1. GENERAL

Exploration Licence 894 of 53 square kilometres was granted to BHP Minerals Limited for one year on 28th September, 1982. An application for a new exploration licence covering the same area has been submitted.

2. FIELD INVESTIGATIONS

Due to commitments in adjacent tenements no fieldwork was undertaken during this quarter.

3. EXPENDITURE

Expenditure debited to E.L. 894 during the four months March, April, May and June, 1983 was:

Wages and Salaries	\$ 145
Fares and Mobilisation	148
Transport	25
Administration and Overheads	15
	 \$ 333

Total expenditure to 30th June, 1983, is:

\$9,233

This report is submitted to the Department of Mines and Energy as required by Condition 4 of Exploration Licence 824



"Wolfstep Building" 695 Burke Road Camberwell Victoria 3124 Australia

The Director-General, Department of Mines and Energy, P.O. Box 151, EASTWOOD, S.A., 5063.

7 FEB 1984

Dear Sir,

QUARTERLY REPORT EXPLORATION LICENCE 1188 ANNE HILL - S.A. - 27/1/84

No field work was carried out during the period. The entire Flinders Ranges Project is presently being offered to other companies as a Joint Venture.

A summary report of the Flinders Ranges Project has previously been submitted.

Yours faithfully, for BHP Minerals Limited

B. J. VIVIAN

alleria.

Telephone (03) 82 8251 Telegrams 'Hematite' Melbourne Telex 30 408 Postal Address P.O. Box 559 Camberwell Victoria 3124 Australia Your Ref: JB: sh: As E6/20/25-T



"Wolfstep Building" 695 Burke Road Camberwell Victoria 3124 Australia

The Director-General, Department of Mines and Energy, P.O. Box 151, EASTWOOD, S.A., 5063.

1 8 MAY 1984

Dear Sir,

QUARTERLY REPORT EXPLORATION LICENCE 1188 ANN HILL - S.A. - 27TH APRIL, 1984

No field work was carried out during the last quarter. Joint Venture arrangements with ESSO Minerals on the Flinders Ranges Project are presently being negotiated and we should be in a position to report on a detailed exploration program for the entire project by mid-June, 1984.

Yours faithfully, for BHP Minerals Limited

B. J. VIVIAN

Telephone (03) 82 8251 Telegrams 'Hematite' Melbourne Telex 30 408 Postal Address P.O. Box 559 Camberwell Victoria 3124 Australia

Your Ref:

Our Ref: JG:1s E6/20/3-T AAAA



[Incorporated in WA]
"Wolfstep Building" 695 Burke Road
Camberwell Victoria 3124

Australia

0015

The Director-General,
Department of Mines and Energy,
P.O. Box 151,
EASTWOOD, S.A., 5063.

1 AUG 1984

Dear Sir,

QUARTERLY REPORT EXPLORATION LICENCE 1188 ANN HILL - S.A. - 27TH JULY, 1984

No field work was carried out during the last quarter.

The Joint Venture Agreement with ESSO Minerals on the Flinders Ranges Project is currently being executed.

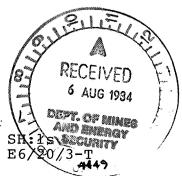
Yours faithfully, for BHP Minerals Limited

B. J. VIVIAN

813 3666

Telephone (03) %2x &2 x X Telegrams 'Hematite' Melbourne Telex 30 408

Postal Address P.O. Box 559 Camberwell Victoria 3124 Australia Your Ref: Our Ref:



ESSO AUSTRALIA LTD.



INCORPORATED IN NEW SOUTH WALESTLY MEDICET for the control G.P.O. BOX 4047 SYDNEY 2001 * TELEPHONE 236 2911 (AREA CODE 02) ESSO HOUSE, 127 KENT STREET, SYDNEY, NEW SOUTH WALES TELEGRAMS "ESSO" * CABLES "ESSOEAST"

> SYDNEY TO THE PART OF THE PARTY OF THE

YOUR REF:

17 December, 1984

OUR REF:

6180/RH/593, 594-599

incl., 500

SUBJECT

Flinder Range Joint

700

Venture

Director-General, Department of Mines & Energy, 191 Greenhill Road, SA 5063 PARKSIDE

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Dear Sir,

I refer to the Flinders Range Joint Venture Agreement between Esso Exploration and Production Australia Inc. and BHP Minerals Limited, that was lodged with your Department under cover of my letter of 11 October, 1984, and Exploration Licences 934, 1080, 1084, 1085, 1129, 1138 and 1188.

In accordance with Clause 3.1 of the Agreement Esso, as operator in respect to these licences, submits Quarterly Reports for those titles listed hereunder :-

Exploration Licence 1188 (Ann Hill) - Quarterly Report for the period 27 October, 1984

As per the above title.

We advise expenditures on the above project for the quarter 27.7.84 to 27.10.84 and cumulative to 27.10.84 are as follows :-

	Cumulative Previous Periods	This Period	Cumulative to date
Geological	271	6316	6587
Geophysical	=	-	-
Geochemical			→
Drilling	-	-	.
-¿Technical Service	· 	-	:
Other	, · · · · · ·		· in the second
Overheads (5%)		316	329
TOTAL	284	6632	6916

ESSO AUSTRALIA LTD.



INCORPORATED IN NEW SOUTH WALES

G.P.O. BOX 4047 SYDNEY 2001 * TELEPHONE 236 2911 (AREA CODE 02)

ESSO HOUSE, 127 KENT STREET, SYDNEY, NEW SOUTH WALES
TELEGRAMS "ESSO" * CABLES "ESSOEAST"

SYDNEY

20 March, 1985

YOUR REF:

OUR REF:

6180/RI/593,594-599,500

SUBJECT

Flinders Range Joint

Venture

The Director-General
Department of Mines & Energy
191 Greenhill Road
PARKSIDE SA 5063

Dear Sir,

I refer to the Flinders Range Joint Venture Agreement between Esso Exploration and Production Australia Inc. and BHP Minerals Limited and Exploration Licences 934, 1080, 1084, 1085, 1129, 1138 and 1188.

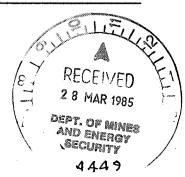
In accordance with Clause 3.1 of the Agreement Esso, as operator in respect to these licences, submits hereunder the Quarterly Reports due in respect to the titles listed.

Exploration Licence 1188 (Ann Hill) - Quarterly Report for the period 27 January 1985.

As per the above title.

I advise expenditures on the above project for the quarter to 27.1.85 and cumulative to 27.1.85 are as follows:

	Cumulative Previous Periods	This Period	Cumulative to Date
Geological	6,587	606	7,193
Geophysical	-	-	-
Geochemical	-	-	-
Drilling	-	-	=
Technical Service	-		-
Computing	_	-	-
Other		-	-
Overheads (5%)	329	30	359
TOTAL	6,916	636	7,552
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ESSO AUSTRALIA LTD.



INCORPORATED IN NEW SOUTH WALES

G.P.O. BOX 4047 SYDNEY 2001 * TELEPHONE 236 2911 (AREA CODE 02) ESSO HOUSE, 127 KENT STREET, SYDNEY, NEW SOUTH WALES TELEGRAMS "ESSO" * CABLES "ESSOEAST"

7 June, 1985

SYDNEY

YOUR REF:

OUR REF:

6180/RH/599, 500

SUBJECT

Flinders Range Joint

Venture

The Director-General Department of Mines & Energy 191 Greenhill Road PARKSIDE SA 5063

Dear Sir,

I refer to the Flinders Range Joint Venture Agreement between Esso Exploration and Production Australia Inc. and BHP Minerals Limited and Exploration Licences 1138 and 1188.

In accordance with Clause 3.1 of the Agreement Esso, as operator in respect to these licences, submits hereunder the Quarterly Reports due in respect to the titles listed.

Exploration Licence 1188 (Ann Hill) - Quarterly Report for the period 28 April 1985.

No field work was carried out during this period.

Expenditures on the above project for the quarter to 28.4.85 and cumulative to 28.4.85 are as follows:

	Cumulative Previous Periods	This Period	Cumulative to Date
Geological	7,193		7,272
Geophysical	-		-
Geochemical	-	-	 ,
Drilling	-		-
Technical Service	-	<u> </u>	-
Computing	-	-	-
Other	-	-	,
Overheads (5%)	359	4	363
TOTAL	7,552	83	5.835 A
		, i de la 	RECEIVE

13 周阳1985



"Wolfstep Building" 695 Burke Road Camberwell Victoria 3124 Australia

1 5 OCI 1985

The Director General, Department of Mines and Energy, P.O. Box 151, EASTWOOD, S.A.

Dear Sir,

QUARTERLY REPORT FOR EXPLORATION LICENCE 1188 - ANN HILL, PERIOD ENDING 27TH JULY, 1985

No field work has been carried out during the last quarter for the abovementioned area.

A report of the 1985 drilling programme has been separately submitted. Further work will be dependent on the appraisal of the results of this drilling.

We apologise for the delay in submitting this report, which has been due to confusion over responsibility for title maintenance following Esso's withdrawal from the Flinders Range Joint Venture.

No drilling undertaken on EL 1188

Esso total expenditue to end of JV was \$9825 giving \$2190 for this quarter!

Yours faithfully, for BHP Minerals Limited

s.a. Johnson

Telephone 813 3666 Telegrams 'Hematite' Melbourne Telex 30 408 Postal Address P.O. Box 559 Camberwell Victoria 3124 Your Ref:

Our Ref: JG: HR

E6/29/7-M

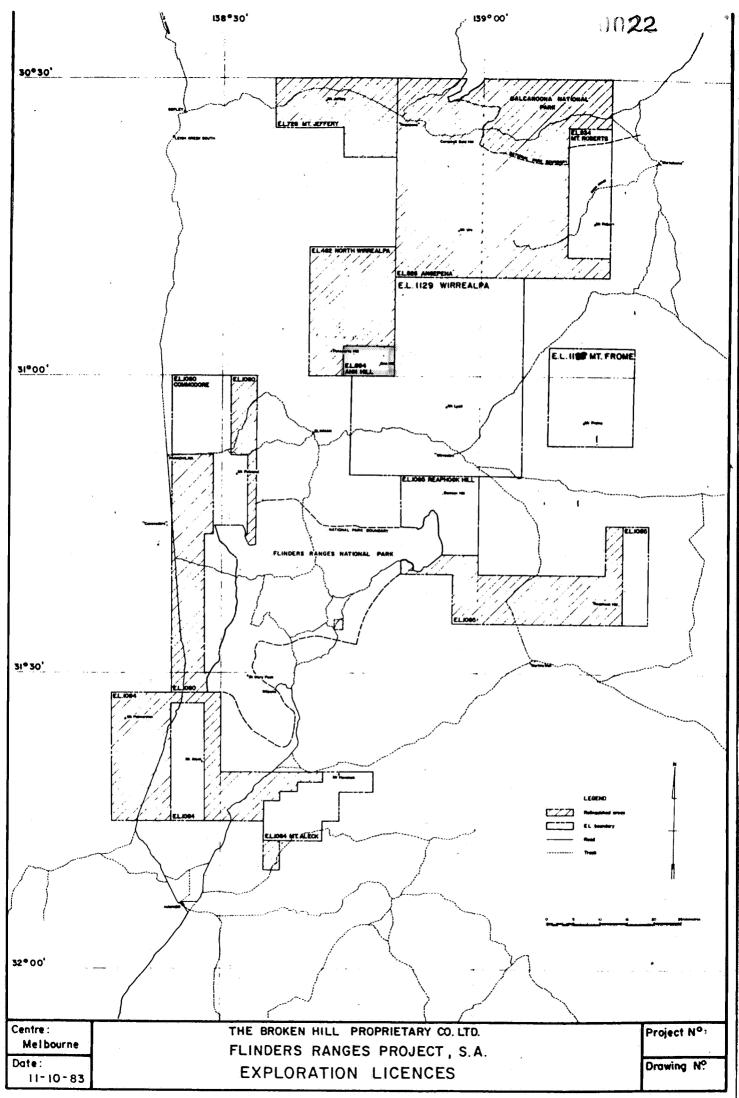
ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 27TH OCTOBER, 1985.

- 1. GENERAL
- 2. FIELD INVESTIGATIONS
- 3. EXPENDITURE

FIGURES

1. Location Map for E.L.1188, Ann Hill, S.A.



ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 27TH OCTOBER, 1985.

1. GENERAL

Exploration Licence 1188 of 53 square kilometres (formerly E.L. 482, then E.L. 894) was granted to BHP Minerals Limited on 28th September, 1982. On the 13th August, 1984 it became part of a Joint Venture Agreement with ESSO Exploration & Production (Australia) Inc.

2. FIELD INVESTIGATIONS

No field work was carried out during this period. We will advise on proposed exploration programmes within this tenement in the near future.

3. EXPENDITURE

No expenditure against this tenement has been made since the Heads of Agreement with ESSO Exploration & Production (Australia) Inc. was terminated on September 2nd, 1985.

(CR 4845)

EXPLORATION LICENCE 1188 ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 27th JANUARY, 1986.



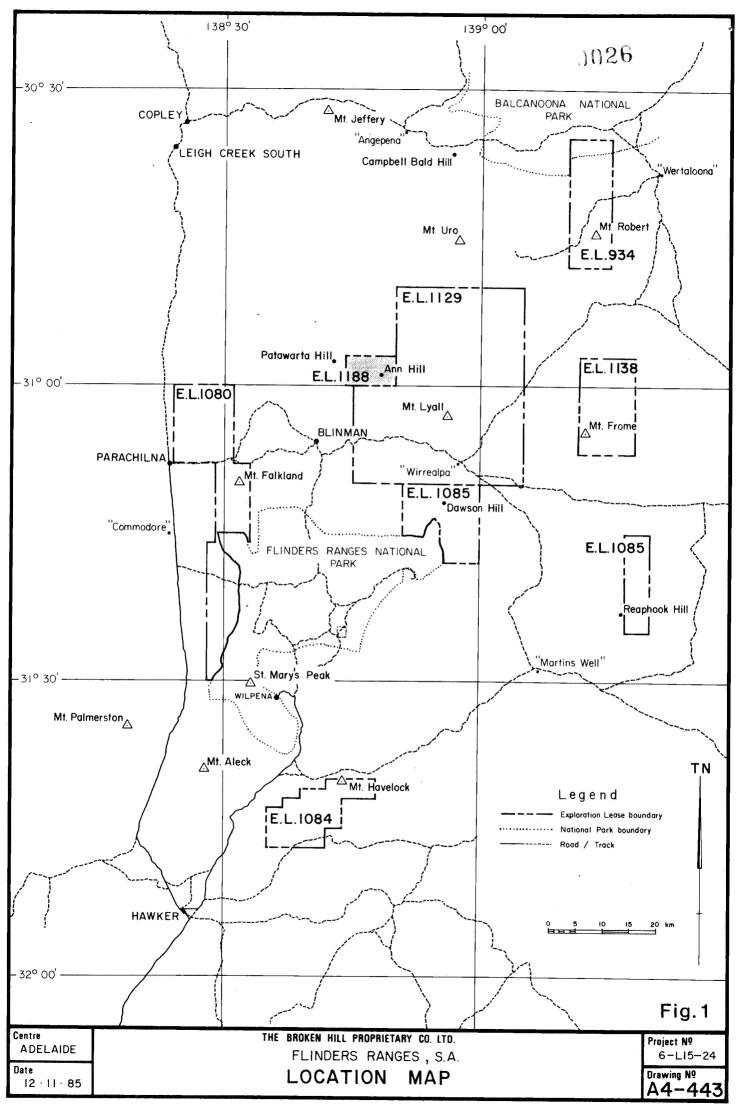
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- 1. SUMMARY
- 2. EXPENDITURE

FIGURE

1. Flinders Ranges, S.A. Location Map.

A4-443



ANN HILL, SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 27th JANUARY, 1986

1. SUMMARY

Exploration Licence 1188, Ann Hill of 53 square kilometres (formerly E.L. 482, then E.L. 894) was granted to BHP Minerals Limited on the 28th September, 1982. On the 13th August, 1984 it became part of a Joint Venture Agreement with ESSO Exploration. This agreement was terminated on the 2nd September, 1985.

The location of E.L. 1188 Ann Hill is shown on Figure 1.

Since the last quarterly report was submitted, no fieldwork has been undertaken within the Exploration Licence.

2. EXPENDITURE

Minor expenditure has been incurred against this tenement during the quarter under review. Details of this expenditure are as follows:

	\$
Wages and Salaries	541
Field Support	70
Drafting	145
Vehicles	12
Tenement Fees	141
Administration Costs	45
	\$954

(CR 5027)

EXPLORATION LICENCE 1188 ANN HILL - SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 26th APRIL, 1986.

D.M. Jarvis Adelaide.



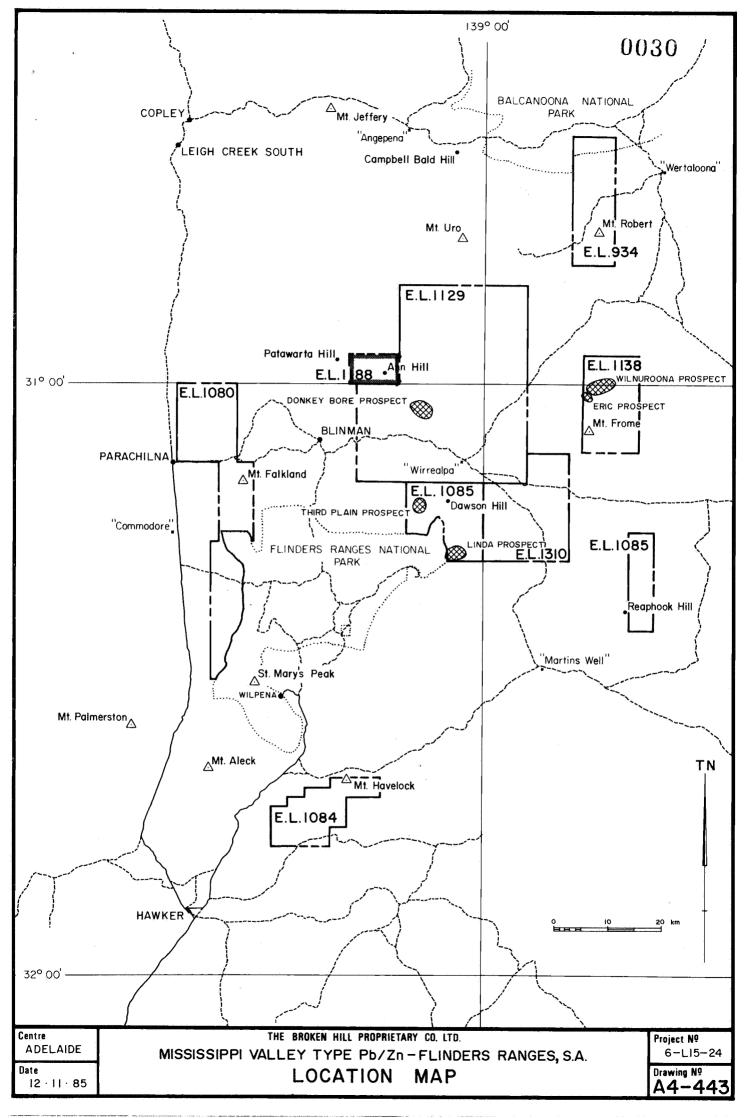
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FIGURES

1. Flinders Ranges - South Australia Location Map.

A4-443



ANN HILL - SOUTH AUSTRALIA

REPORT FOR QUARTER ENDED 26th APRIL, 1986

1. SUMMARY

This is the tenth Quarterly Report EL1188 Ann Hill for the period ended 26th April, 1986.

EL1188 is one of a group of eight (8) BHP Minerals tenements situated in the northern Flinders Ranges approximately 60 kms southeast of the township of Copley. All of these tenements are underlain by various carbonate rocks of the Lower Cambrian. As such the Ann Hill area is looked upon as being prospective for Mississippi style, carbonate hosted Pb-Zn mineralization. The location of EL1188 is shown outlined in red on Figure 1.

Up until September 1985 the Ann Hill tenement was included with all of the seven other Licence areas mentioned above as part of a joint venture with ESSO Australia Ltd. Since the dissolution of the ESSO joint venture no further work has been carried out in the Ann Hill Licence area.

2. EXPENDITURE

Details of expenditure on EL1188 for the period ended 26.4.1986 are as follow:

	\$
Wages & Salaries	940
Support	140
Vehicles	39
Office expenses	19
	\$1,138

(CR 5163)

EXPLORATION LICENCE 1188 ANN HILL - SOUTH AUSTRALIA

REPORT FOR THE QUARTER ENDED 26th JULY, 1986.



R.J. Taylor Adelaide

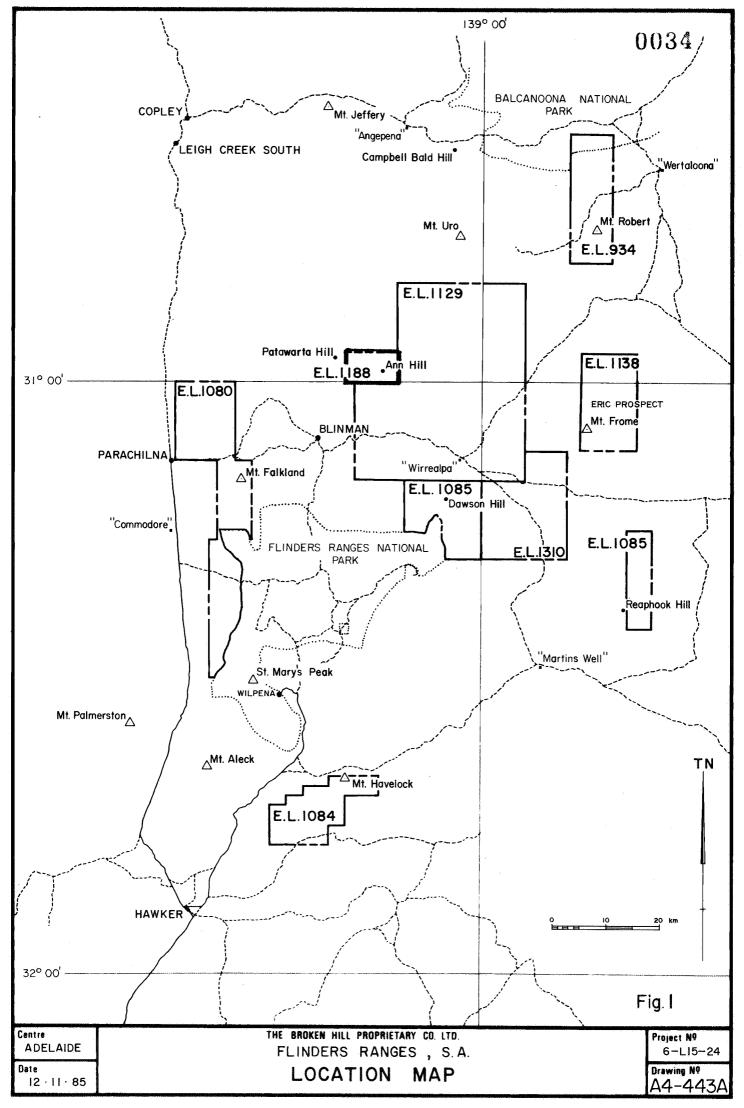
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- 1. SUMMARY
- 2. EXPENDITURE

FIGURES

1. Flinders Ranges - South Australia Location Map.

A4-443 A



ANN HILL - SOUTH AUSTRALIA

REPORT FOR QUARTER ENDED 26th JULY, 1986

1. SUMMARY

This is the eleventh Quarterly Report for EL.1188 Ann Hill for the period ended 26th July, 1986.

EL.1188 is one of a group of eight (8) BHP Minerals tenements situated in the northern Flinders Ranges approximately 60 kms southeast of the township of Copley. All of these tenements are underlain by various carbonate rocks of the Lower Cambrian. As such the Ann Hill area is looked upon as being prospective for Mississippi style, carbonate hosted Pb-Zn mineralization. The location of EL.1188 is shown outlined in red on Figure 1.

Up until September 1985 the Ann Hill tenement was included with all of the seven other licence areas mentioned above as part of a joint venture with ESSO Australia Ltd. Since the dissolution of the ESSO joint venture no further field work has been carried out in the Ann Hill licence area.

2. EXPENDITURE

Details of expenditure on EL.1188 for the period ended 26.7.1986 are as follows:

	\$
Wages & Salaries	550
Support	80
Office Expenses	30
	
	\$660