

Open File Envelope

No. 6456

EL 1284

ALGEBUCKINA HILL

**PROGRESS AND FINAL REPORTS TO LICENCE EXPIRY
FOR THE PERIOD 22/5/1985 TO 21/5/1986**

Submitted by
Cyprus Australia Coal Co.
1986

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Minerals and Energy Resources
7th Floor
101 Grenfell Street, Adelaide 5000

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



Government of South Australia
Primary Industries and Resources SA

Geological map of the Alge Buckina Hill area, showing various geological features, roads, and geographical locations. The map includes a scale bar from 0 to 25 kilometers and a north arrow. Key locations include Alge Buckina Hill, Mt. Dutton, Mt. Kingston North, and Peake. The map also shows the Alice Springs to Port Augusta Railway and the Rly. Res. 606. The map is titled 'ALGEBUCKINA HILL' and 'ALGEBUCKINA R.S. (Disused)'.

EXPIRED

AREA: 433 square kilometres (approx.)

LOCALITY: ALGEBUCKINA HILL AREA - Approx. 40 km southeast of Oodnadatta

DATE EXPIRED: 21-5-85

EL No: 1284

TENEMENT: E.L. 1284 Algebuckina Hill.

TENEMENT HOLDER: Getty Oil Development Co. Ltd.

REPORT: Quarterly report to 21st August 1985. Pgs. 3-12

PLANS: Location Map. Fig. 1. (1:2,000,000 Scale) Pg. 6
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APPENDIX: Sirotem Geophysical Survey Data. Pgs. 28-33

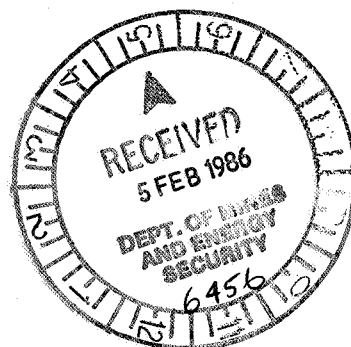
PLANS: Location Map. Fig. 1. (1:2,000,000 Scale). Pg. 21
 Location Map. Fig. 2. (1:250,000 Scale). Pg. 22
 Sirotem Locations. Fig. 3. Pg. 24

GETTY AUSTRALIAN COAL COMPANY

EXPLORATION LICENSE 1284

SOUTH AUSTRALIA

First Quarterly Report to 21 August 1985



Distribution

SADME (1)
G.A.C.C., Sydney (2)
Cyprus Coal Company (1)

December 1985

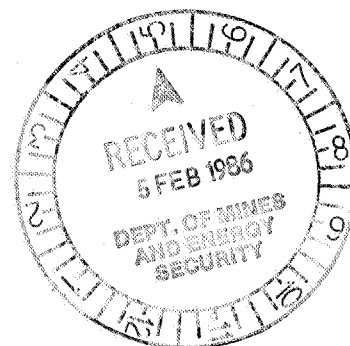
D. W. Schofield

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FIGURES

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005

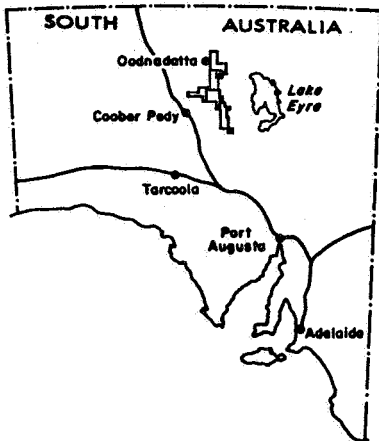
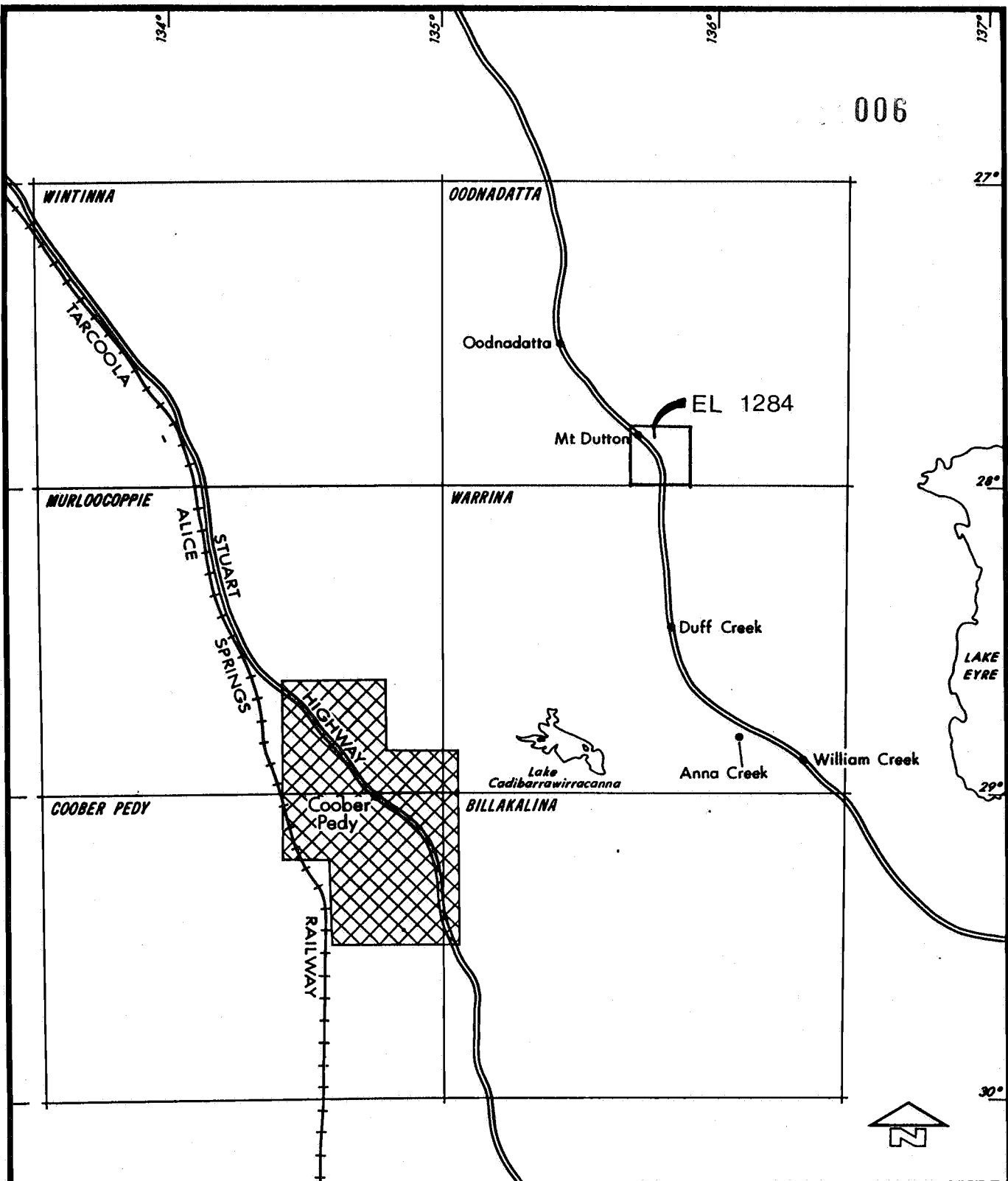
1.0

INTRODUCTION

EL1284 "Algebuckina Hill" was granted to Texaco Oil Development Company (Formerly Getty Oil Development Company) on 22 May 1985 for a period of one year. All Getty/Texaco licenses in the Arckaringa Basin area (EL's 1221, 1222, 1284, 1295) have subsequently been transferred to Getty Australian Coal Company, a subsidiary of Texaco Oil Development Company. *ND*

The Algebuckina Hill area lies approximately 40km southeast of Oodnadatta and is 433 square kilometres in area (figure 1). The Oodnadatta track and the abandoned Alice Springs/Port Augusta Railway cross the central part of the license from north to south (figure 2).

Data relating to the subsurface occurrence of Permian sediments in the license area *is* very limited. Outcrops of *Jurassic* and Cretaceous sediments occur over significant portions of the area. It is possible that Permian sediments including the coal bearing Mt. Toondina Formation could be present beneath these younger units of the Great Artesian Basin. A *sirotem* geophysical survey was undertaken in hope of determining the presence or absence of coal bearing strata beneath the Permian-*Jurassic* unconformity in the license *area*.



 Excluded Area

0 50 100
KILOMETRES

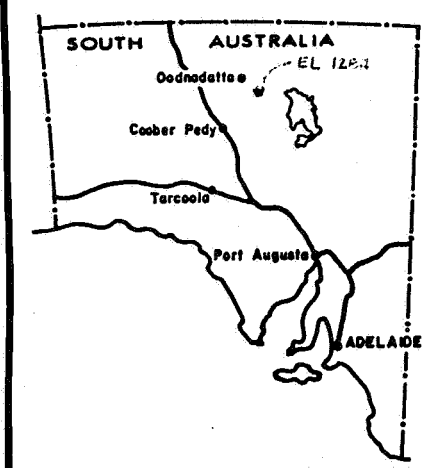
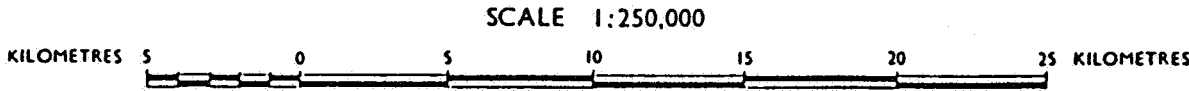
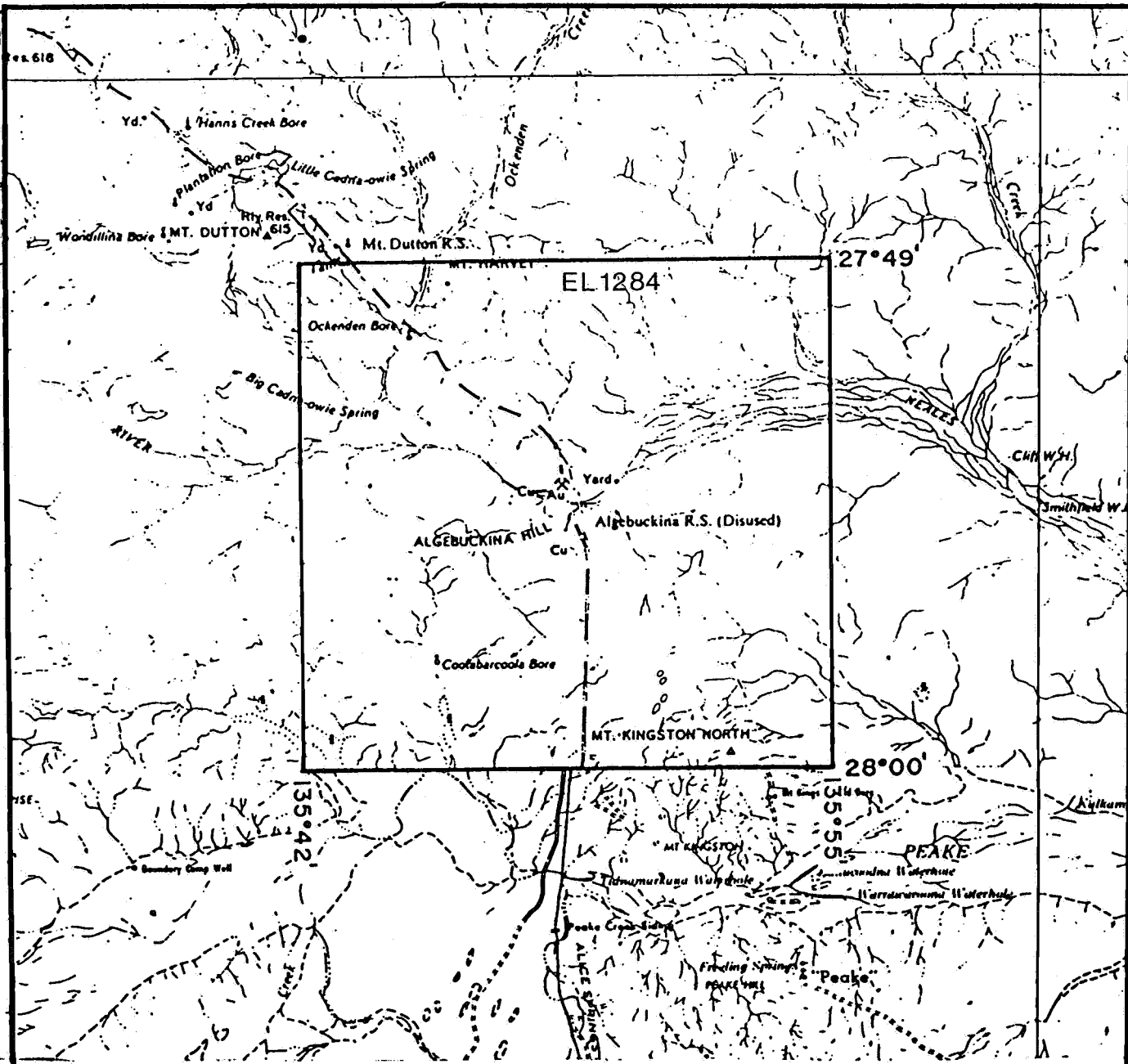
Getty | AUSTRALASIA

GETTY OIL DEVELOPMENT COMPANY LIMITED

SOUTH AUSTRALIA

**EL 1284
LOCATION MAP**

Author P. Priddle	Scale 1:2000000
Drawn K.T.	Date September 1984
Revised D.W.S. 12.95	File No
	Figure No 1



Getty AUSTRALASIA	
GETTY AUSTRALIAN COAL COMPANY	
SOUTH AUSTRALIA	
EL 1284	
Author:	Scale: 1:250,000
Drawn: C. J. Jones	File No:
Revised: DWS 12-95	Figure No: 2

008

2.0

WORK COMPLETED

2.1 Aerial Photography

Aerial photography in colour and black and white was obtained from the South Australian Lands Department. The photographs (1:87,000 scale) together with preliminary topographic maps at 1:100,000 scale were used for ground control of position during exploration.

2.2 Review of Existing Geological Information

A review of all geological maps and reports, groundwater data, and open file reports was undertaken. Data relating to Permian sediments in the license area is very limited, but presence of the Mt. Toondina Formation is possible in the subsurface of the western and northeastern portions of the area.

Prior to consideration of potential drilling sites a geophysical study was designed to improve our interpretations of the western portions of the license area.

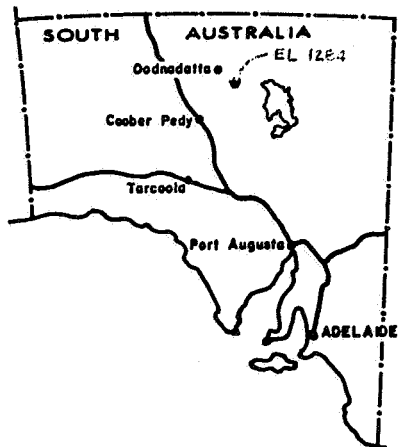
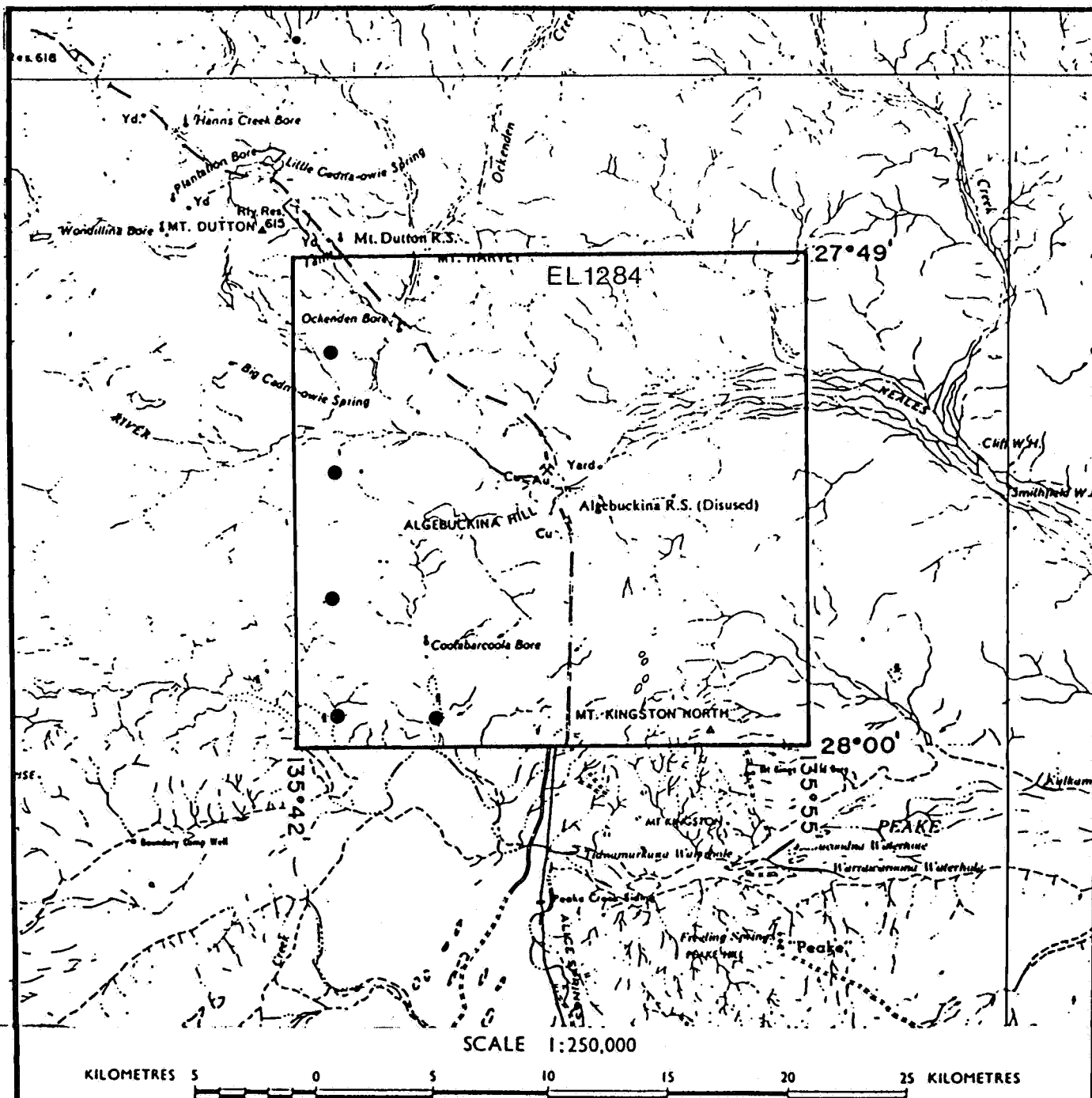
2.3 Geophysical Surveys

A Sirotem Geophysical survey was undertaken to identify both the depth to the top coal and the total thickness of coal measures. The Sirotem equipment was used because it had a proven record of identifying coal seams at depth using resistivity variations (H. Rutter pers comm.). The survey was completed by Mr Hugh Rutter from Geophysical Exploration Consultants Pty Ltd using a Sirotem MK2, property of Stockdale Prospecting Limited. Loop size for the survey was 200 x 200 metres and site locations were on a 4 x 5 km grid.

A Hughes 300 helicopter from Capricorn Helicopters of Alice Springs was found to be most efficient operating with three personnel : a pilot, geophysicist and geologist. The geologist identified the location from airphotos and with the pilot set up a loop. The pilot then retrieved the geophysicist and a second loop from the previous location and while the geophysicist was recording on the new location the geologist and pilot moved on to the next locality with the second loop. In such a manner between 8 and 12 sites were measured on any one day.

On exploration license 1284 a total of 5 sites were chosen for measurement. The sites covered approximately 150 sq. km. of the western portion of the license area. The sites were chosen to test for the possible extension of Permian coals from the Boorthanna Trough eastward into the license area (fig. 3).

Results of the initial inversion of the T.E.M. data were very disappointing. In general the resistivities are very low and show only a restricted penetration by the E.M. signal to an horizon at less than 100m. Deeper layers were not recognized in most of the inversions and nearly all coal seams are located below the 100m level. The success of the survey would appear to be minimal and the results need further reinterpretation if they are to have any value.



Getty AUSTRALASIA	
GETTY AUSTRALIAN COAL COMPANY	
SOUTH AUSTRALIA	
EL 1284	
SIROTEM LOCATIONS	
Author:	Scale: 1:250,000
Drawn: Cartmann Pty Ltd	Date:
Revised:	File No
	Figure No 3

3.0

WORK PLANNED

Due to disappointing results of the sirotem geophysical surveys, re-inversion and re-design of the mathematical model is required if any further use can be obtained from the surveys. This attempt at reinterpreting the data gathered is planned for the early part of 1986.

Further geophysical work, more mapping and drilling will be considered once further refinement of the sirotem surveys is complete.

012

APPENDIXEXPENDITURE STATEMENT EL.1284FOR THE PERIOD 21 August 1985

	<u>CURRENT PERIOD</u>	<u>INCEPTION TO DATE</u>
	\$	\$
Salaries and E.B.E.	1,062	1,062
Office Rent, Supplies, Communication, Travel, etc	1,127	1,127
Field Material and Supplies, Rental - Storage	443	443
Automotive Expenses	332	332
Tenement Fees and Rental		
Contract Geochemistry		
Contract Geology	363	363
Contract Geophysics	3,838	3,838
Drilling		
Assaying		
Aerial Photography	52	52
Roads, Access and Trenching	107	107
Gridding and Surveying	69	69
Other		
Archaeology	122	122
Prof. Services	120	120
SUB-TOTAL	<u>7,635</u>	<u>7,635</u>
OVERHEADS	<u>1,145</u>	<u>1,145</u>
TOTAL EXPENDITURE	<u>8,780</u>	<u>8,780</u>

Date: 29 January 1986

Prepared by: D. W. Schofield



Getty Australian Coal Company
Registered as a Foreign Company in the State of South Australia
Suite 32, 22 Fisher Road, DEE WHY 2099

Telephone 982 2000
Telex AA121612

29 January 1986

Mr R. K. Johns,
Director-General,
Department of Mines and Energy,
191 Greenhill Road,
PARKSIDE. S.A. 5063

Dear Sir,

Re : Exploration License 1284, Second Quarterly Report to
21 November 1985.

No active exploration work was undertaken on EL1284 during the report period. Further work is pending awaiting results of reinterpretation of data gathered during sirotem geophysical surveys as described in the previous report.

Better understanding of geology of the western portion of the license is developing from interpretation of drilling data gathered in the adjacent areas of EL1295.

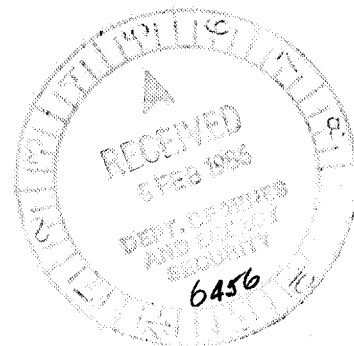
A current expenditure statement is attached.

Yours sincerely,

A handwritten signature in dark ink, appearing to read "D. W. Schofield", written over a horizontal line.

D. W. SCHOFIELD
Vice President

Encl.



APPENDIXEXPENDITURE STATEMENT EL. 1284FOR THE PERIOD 21 November 1985 (Calculated to 30.11.85)

	<u>CURRENT PERIOD</u>	<u>INCEPTION TO DATE</u>
	\$	\$
Salaries and E.B.E.	735	1,797
Office Rent, Supplies, Communication, Travel, etc	646	1,773
Field Material and Supplies, Rental - Storage		443
Automotive Expenses		332
Tenement Fees and Rental		
Contract Geochemistry		
Contract Geology		363
Contract Geophysics	39	3,877
Drilling		
Assaying		
Aerial Photography		52
Roads, Access and Trenching	189	296
Gridding and Surveying		69
Other		
Prof.Serv.	374	494
Archaeology	307	429
	<u>2,290</u>	<u>9,925</u>
SUB-TOTAL	2,290	9,925
OVERHEADS	344	1,489
TOTAL	<u>2,634</u>	<u>11,414</u>
EXPENDITURE	<u>2,634</u>	<u>11,414</u>

Date:

Prepared by: D.W. Schofield



Cyprus Australia Coal Company

Registered as a Foreign Company in the State of South Australia

015

Suite 32, 22 Fisher Road
P.O. Box 364
Dee Why, N.S.W. 2099

Telephone: (02) 982 2000
Telex: AA121612

August 5, 1986

Mr R. K. Johns,
Director General,
Department of Mines and Energy
South Australia,
P.O. Box 151,
EASTWOOD. S.A. 5063

Dear Mr Johns,

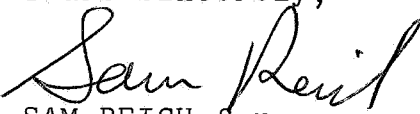
Second and Third Quarterly Reports - EL.1284

Covering the periods 21 August 1985 to 21 November 1985
and 21 November 1985 to 21 February 1986

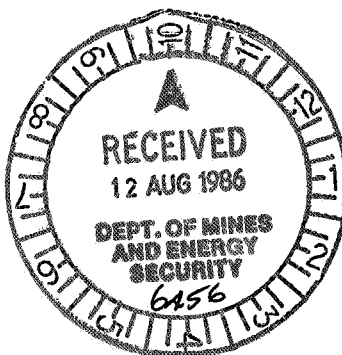
During the six month period covered by these two reports,
field work was concentrated outside of the licence area,
and costs incurred were mostly of an administrative nature.
The final three months of the licence (now released) was
covered in the Final Report submitted in July 1986.

The Expenditure Statement attached details costs incurred
during the Second and Third Quarters of the licence.

Yours Sincerely,


SAM REICH for

DONALD W. SCHOFIELD
Vice President



CYPRUS

APPENDIX IEXPENDITURE STATEMENT Second Quarter EL.1284FOR THE PERIOD 21 August 1985 to 21 November 1985

	<u>CURRENT PERIOD</u>	<u>INCEPTION TO DATE</u>
	\$	\$
Salaries and E.B.E.	735	1,797
Office Rent, Supplies, Communication, Travel, etc	646	1,773
Field Material and Supplies, Rental - Storage		443
Automotive Expenses		332
Tenement Fees and Rental		
Contract Geochemistry		
Contract Geology		363
Contract Geophysics	39	3,877
Drilling		
Assaying		
Aerial Photography		52
Roads, Access and Trenching	189	296
Gridding and Surveying		69
Other Drafting	374	494
Archaeology	307	429
SUB-TOTAL	2,290	9,925
OVERHEADS	344	1,489
TOTAL EXPENDITURE	2,634	11,414



Date: 1 August 1986

Prepared by: Sam Reich

APPENDIX IIEXPENDITURE STATEMENT Third Quarter EL.1284FOR THE PERIOD 21 November 1985 to 21 February 1986

	<u>CURRENT PERIOD</u>	<u>INCEPTION TO DATE</u>
	\$	\$
Salaries and E.B.E.	990	2,787
Office Rent, Supplies, Communication, Travel, etc	1,054	2,827
Field Material and Supplies, Rental - Storage	87	530
Automotive Expenses		332
Tenement Fees and Rental		
Hydrology		
Contract Geochemistry Geochemistry	191	191
Contract Geology	306	669
Contract Geophysics		3,877
Drilling		
Assaying		
Aerial Photography		52
Roads, Access and Trenching		296
Gridding and Surveying		69
Other Environmental Studies	1,122	1,122
Archaeology		429
Drafting		494
SUB-TOTAL	3,750	13,675
OVERHEADS	563	2,051
TOTAL EXPENDITURE	4,313	15,726

Date: 1 August 1986

Prepared by: Sam Reich

CYPRUS AUSTRALIA COAL COMPANY

EXPLORATION LICENSE 1284

SOUTH AUSTRALIA

Final Report 22 May 1985 to 21 May 1986

Release Report

Distribution

SADME (1)
C.A.C.C. Sydney (2)
Cyprus Coal Company (1)



July 1986

S. Reich

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APPENDIX

SiroteM Geophysical survey data

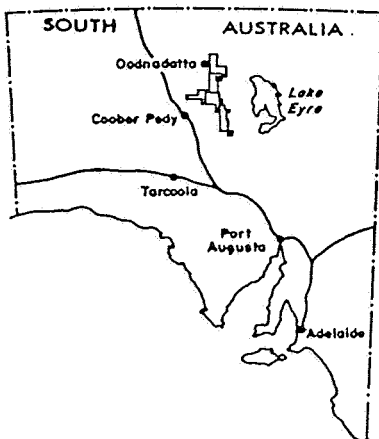
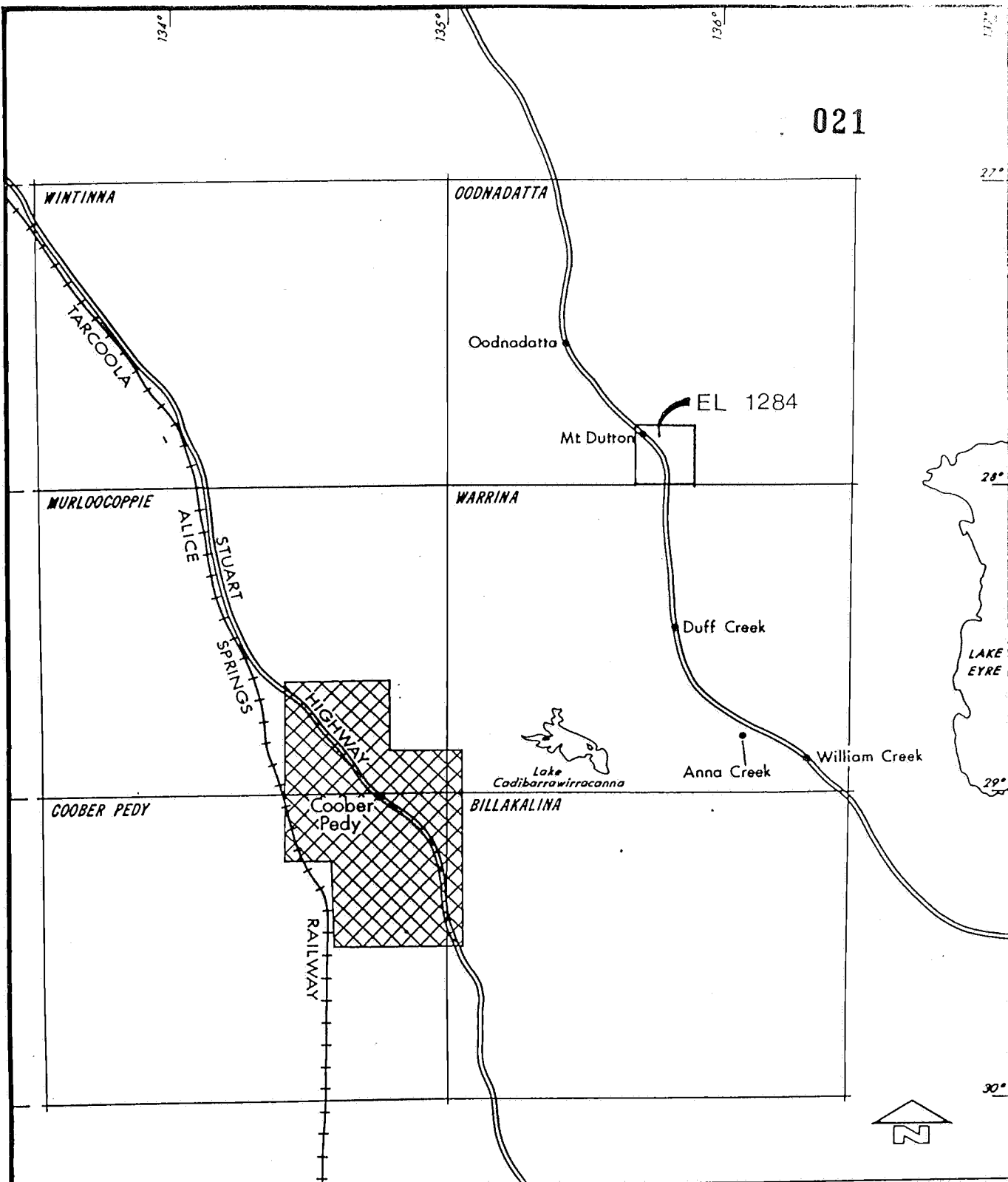
1.0 INTRODUCTION

EL.1284 "Algebuckina Hill" was granted to Texaco Oil Development Company (Formerly Getty Oil Development Company) on 22 May 1985 for a period of one year. All Getty/Texaco licenses in the Arckaringa Basin area (EL's 1221, 1222, 1284, 1295) were transferred to Getty Australian Coal Company, a subsidiary of Texaco Oil Development Company. Getty Australian Coal Co. subsequently changed it's name to Cyprus Australia Coal Co. on March 20 1986.

The Algebuckina Hill area lies approximately 40km southeast of Oodnadatta and is 433 square kilometres in area (figure 1). The Oodnadatta track and the abandoned Alice Springs/Port Augusta Railway cross the central part of the license from north to south (figure 2).

Data relating to the subsurface occurrence of Permian sediments in the license area is very limited. Outcrops of Jurrasic and Cretaceous sediments occur over significant portions of the area. It is possible that Permian sediments including the coal bearing Mt. Toondina Formation could be present beneath these younger units of the Great Artesian Basin. A sirotem geophysical survey was undertaken in hope of determining the presence of absence of coal bearing strata beneath the Permian-Jurrasic unconformity in the license area.

021



 Excluded Area

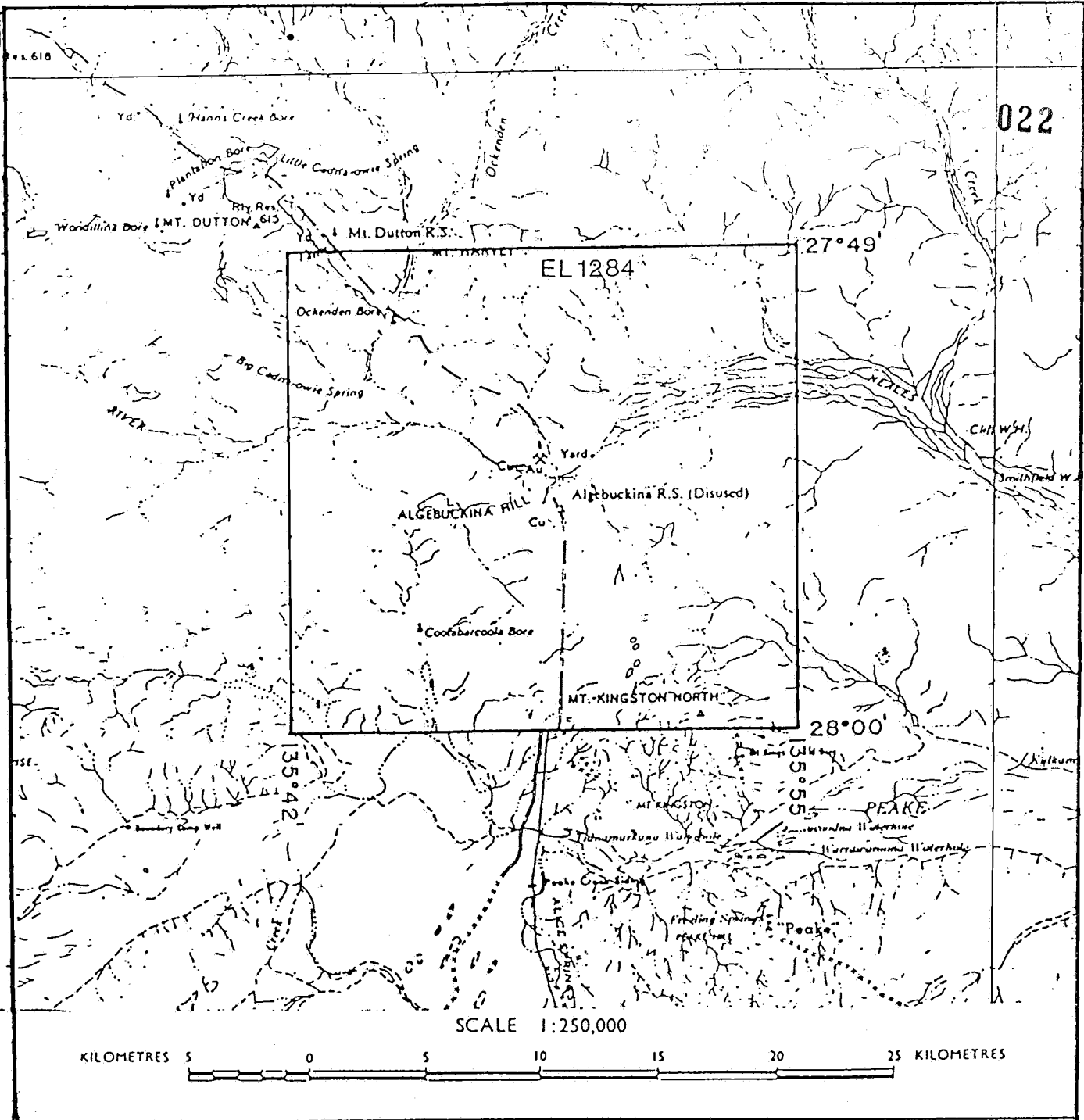
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KILOMETRES

CYPRUS | AUSTRALASIA

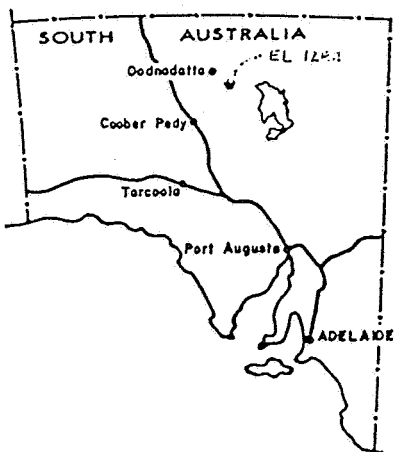
SOUTH AUSTRALIA

EL 1284
LOCATION MAP

Author	P. Priddle	Scale	1:2 000 000
Drawn	M.T.	Date	September 1981
Revised	D.W.S. 12.35	File NO	Enquire NO 1



022



CYPRUS		AUSTRALASIA	
SOUTH AUSTRALIA			
EL 1284			
Author:	Scale: 1:250,000		
Drawn: <i>Cartographia Pty Ltd</i>	Date:		
Revised: <i>DWS 12-95</i>	File No:	Figure No:	2

2.0 WORK COMPLETED

2.1 Aerial Photography

Aerial photography in colour and black and white was obtained from the South Australian Lands Department. The photographs (1:87,000 scale) together with preliminary topographic maps at 1:100,000 scale were used for ground control of position during exploration.

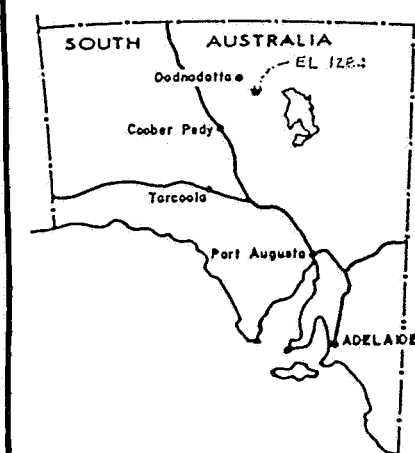
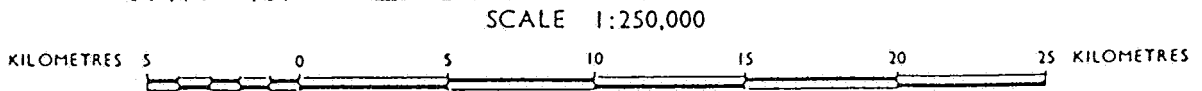
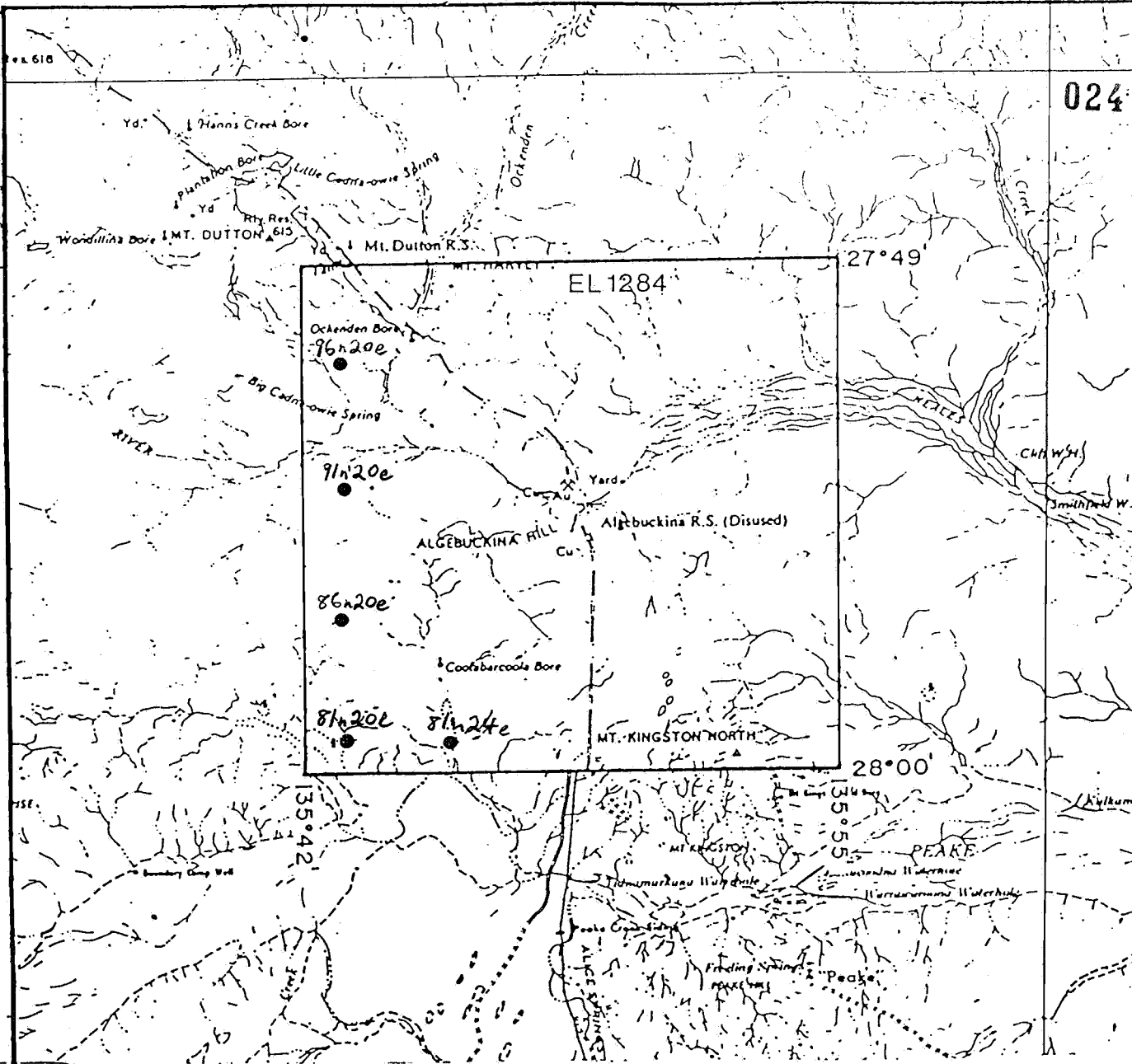
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A Sirotem Geophysical survey was undertaken to identify both the depth to the top coal and the total thickness of coal measures. The Sirotem equipment was used because it had a proven record of identifying coal seams at depth using resistivity variations (H. Rutter pers comm.). The survey was completed by Mr Hugh Rutter from Geophysical Exploration Consultants Pty Ltd using a Sirotem MK2, property of Stockdale Prospecting Limited. Loop size for the survey was 200 x 200 metres and site locations were on a 4 x 5 km grid.



CYPRUS | AUSTRALASIA

SOUTH AUSTRALIA
EL 1284
SIROTEM LOCATIONS

Author:	Scale: 1:250,000
Drawn: Carbone Pty Ltd	Date:
Revised:	File NO
	Figure NO 3

A Hughes 300 helicopter from Capricorn Helicopters of Alice Springs was found to be most efficient operating with three personnel : a pilot, geophysicist and geologist. The geologist identified the location from airphotos and with the pilot set up a loop. The pilot then retrieved the geophysicist and a second loop from the previous location and while the geophysicist was recording on the new location the geologist and pilot moved on to the next locality with the second loop. In such a manner between 8 and 12 sites were measured on any one day.

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Results of the initial inversion of the T.E.M. data were very disappointing. In general the resistivities are very low and show only a restricted penetration by the E.M. signal to an horizon at less than 100m. Deeper layers were not recognized in most of the inversions and nearly all coal seams are located below the 100m level. The success of the survey would appear to be minimal and the results need further reinterpretation if they are to have any value.

3.0 CONCLUSION

Based on the uncertain results of the Sirotek survey, and on drilling within the surrounding licences controlled by Cyprus Australia Coal Co., it was concluded that if the Permian Mt. Toondina Formation existed within EL.1284 at all, more than likely only the lower, non-coal bearing sequences were represented. The upper portion of the Permian measures have almost certainly been eroded during the late Permian to early Jurassic hiatus.

Wishing to concentrate exploration time and monies toward more prospective areas, Cyprus has released the licence area back to the South Australia Government.

APPENDIX

027

EXPENDITURE STATEMENT EL 1284FOR THE PERIOD FULL YEAR 22 May 1985 to 21 May 1986

	<u>INCEPTION TO DATE</u>
	\$
Salaries and E.B.E.	4,316
Office Rent, Supplies, Communication, Travel, etc.	4,429
Field Material and Supplies, Rental-Storage	1,160
Automotive Expenses	473
Tenement Fees and Rental	890
 Contract Geochemistry	
Contract Geology	669
Contract Geophysics	3,950
Drilling	
Assaying	
Aerial Photography	52
Roads, Access and Trenching	296
Gridding and Surveying	69
Other Archaeology, Environmental, Hydrological	872
Contract Drafting	307
	<hr/>
SUB-TOTAL	\$17,483
OVERHEADS	2,622
TOTAL EXPENDITURE	<u>\$20,105</u>

Date: July 16, 1986

Prepared by: Sam Reich

SIROTEM GEOPHYSICAL SURVEY

DATA

EL.1284

Note : These are five of 93 locations surveyed. The remainder are within EL's 1295 and 1168, which are still held by Cyprus under licence. The data are as yet uninterpreted.

@ 1 WORLDUG.COM

IF F8MODE() .NES. "INTERACTIVE" THEN EXIT : exit if batch job
: ASSIGN H96N20E FORDS.
: RUN (S455)S455P441H96N20E

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h96n20e
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20 100
40000 0 0
.2
3 3 0
1 0 10 0
83440 68740 50150 33350 21980 13220 6914 3674 2355 1493 832.8 413.1 226.9
132.4 61.03 43.37 19.69 9.781 4.917 2.429
: E

MAXIMUM ITERATIONS REACHED

*
* FINAL MODEL AFTER INVERSION *
*

h96n20e

I	RESISTIVITY	THICKNESS	DEPTH
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1	48.36	9.466	9.466
2	0.4219	9.231	18.70
3	332.2		

STANDARD ERROR = 19.5 PERCENT

NOISE TO SIGNAL RATIO = 2.54 PERCENT

GENERAL CROSS VALIDATION = 0.502E-01

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$ *****
$ IF PROGRAMMES."INTERACTIVE" THEN EXIT : exit if batch job
$ ASSIGN H91N20E FOR005
$ RUN IS+SC.LYSMGR.AMIRADGRENIL

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INPUT DATA - WHOLE FILE

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h91n20e
50 2 100
20 100
40000 1 0
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3 3 0
1 0 10 0
91020 67850 35890 17970 9928 4812 2071 1038 573.9 339.1 176.4 79.05 40.13
22.1 12.87 6.182 2.284
1 0

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copy ro.tmp h91n20e.dat

MAXIMUM ITERATIONS REACHED

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*****
*
* FINAL MODEL AFTER INVERSION *
*
*****

```

h91n20e

I	RESISTIVITY	THICKNESS	DEPTH
			0.0000E+00
1	49.41	10.82	10.82
2	0.5113	6.064	16.89
3	2550.		

STANDARD ERROR = 14.0 PERCENT

NOISE TO SIGNAL RATIO = 1.96 PERCENT

3 1 WOPLIN5.COM
 3 1 *****
 3 1 IF FMODE(1,1) EQ "INTERACTIVE" THEN EXIT : exit if batch job
 3 1 ASSIGN H86N20E F07005
 3 1 RUN CP/50.SYBMR.AMTRA15RCHL

INPUT DATA - WHOLE FILE

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 3 21 2
 h86n20e
 50 2 100
 20 100
 40000 1 0
 .2
 3 3 0
 1 0 10 0
 83370 67810 48830 32850 21670 13340 7211 4197 2567 1672 953.3 486 270.6 159.9
 100.4 54.95 26.54 13.85 7.783 4.164 1.94
 1 0

MAXIMUM ITERATIONS REACHED

 *
 * FINAL MODEL AFTER INVERSION *
 *

h86n20e

1	RESISTIVITY	THICKNESS	DEPTH
			0.0000E+00
1	48.87	11.62	11.62
2	0.4806	11.56	23.18
3	289.6		

STANDARD ERROR = 15.3 PERCENT

NOISE TO SIGNAL RATIO = 1.93 PERCENT

GENERAL CROSS VALIDATION = 0.383E-01


```
# 1 WCP.DUE.COM
# 2 *****
# 3 IF PARAMODE(0).NES."INTERACTIVE" THEN EXIT : exit if batch job
# 4 ASSIGN H81N20E POP005
# 5 RUN 15Y50,SY5MGP,AM1RAJGREN06
```

INPUT DATA - WHOLE FILE

2 1 0
3 22 2
h81n20e
50 2 100
20 100
40000 1 0
.2
3 1 0
1 0 10 0
85770 64770 43290 30520 22450 14860 8905 5587 3727 2555 1568 867.8 510.1 323.5
209.7 121.1 63.52 35.88 21.51 13.24 7.283 2.977
1 0

MAXIMUM ITERATIONS REACHED

*
* FINAL MODEL AFTER INVERSION *
*

h81n20e

I	RESISTIVITY	THICKNESS	DEPTH
			0.0000E+00
1	49.46	16.06	16.06
2	0.4924	16.67	32.73
3	160.1		

STANDARD ERROR = 8.28 PERCENT
NOISE TO SIGNAL RATIO = 1.08 PERCENT
GENERAL CROSS VALIDATION = 0.201E-01

```
* / WORLDBL.COM
* / =====
* IF P#MODE().NES."INTERACTIVE" THEN EXIT ! exit if batch job
* ASSIGN H81N24E FORCDS
* RUN (SYSO,SYSGNR,AMIRAJGRENDL
```

INPUT DATA - WHOLE FILE

```
2 1 0
3 16 2
h81n24e
50 2 100
20 100
40000 1 0
.2
3 3 0
1 0 10 0
84270 65310 38060 20090 11610 5662 2412 1169 634.1 368 187.6 82.58 41.63
22.89 13.35 6.581 2.663 1.069
1 0
```

MAXIMUM ITERATIONS REACHED

```
*****
*
* FINAL MODEL AFTER INVERSION *
*
*****
```

h81n24e

I	RESISTIVITY	THICKNESS	DEPTH
			0.0000E+00
1	51.36	7.137	7.137
2	0.3527	4.175	11.31
3	9031.		

STANDARD ERROR = 20.1 PERCENT

NOISE TO SIGNAL RATIO = 2.57 PERCENT

GENERAL CROSS VALIDATION = 0.557E-01