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No. 4799

EL 992

MORGAN CREEK

PROGRESS AND RELINQUISHMENT REPORTS FOR THE PERIOD 12/4/82 TO 11/4/84

Submitted by

Swan Resources Ltd
1984

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**PRIMARY INDUSTRIES
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TENEMENT HOLDER: Swan Resources Ltd. & Freeport Of Australia
Incorporated.

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EXPLORATION LICENCE 992

ORROROO AREA, SOUTH AUSTRALIA

Quarter ended 11th July, 1982

Freeport of Australia Incorporated

and

Swan Resources Limited

W.T. MARX
Senior Geologist

October, 1982

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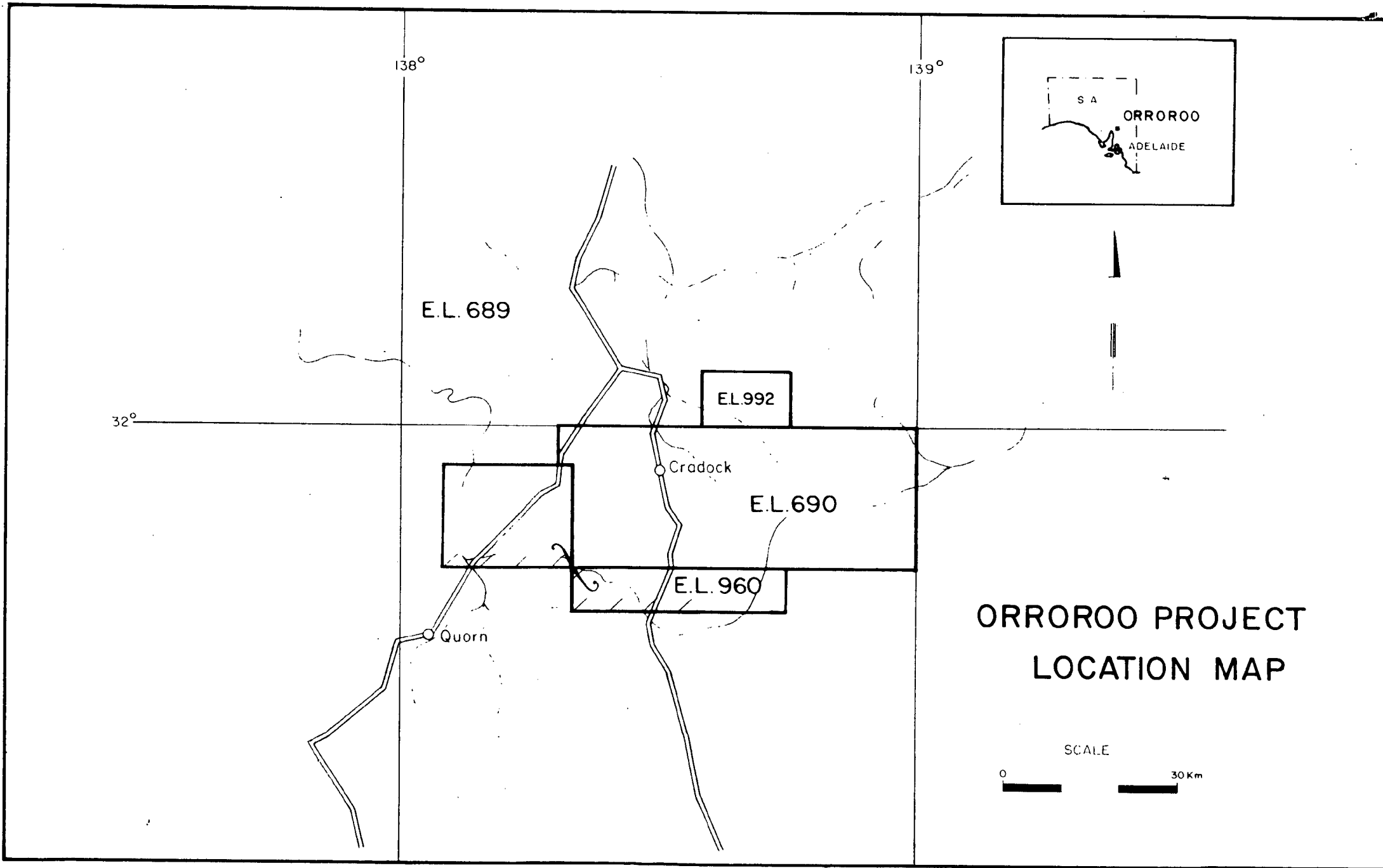
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Figure 1 Project Location Map

Exploration Licence 992 covers an area of 146 square kilometres immediately to the north of Exploration Licence 690 in which the joint venture partners have been conducting exploration for diamonds.

The licence was granted on 12th April, 1982 for a term of one year.

The area was applied for to cover the northern portion of the Worumba Diapir.



ORROROO PROJECT LOCATION MAP

2.0

EXPLORATION ACTIVITIES

An airborne magnetic survey flown over Exploration Licences 960, 689 and 690 revealed high magnitude magnetic anomalies in the Worumba Diapir. These were considered to be caused by dolerite or diorite intrusions into the diapir and potential locations of base metal mineralisation.

Traces of copper mineralisation were found on field inspection of these locations, but stream sediment sampling over the diapir in E.L. 690 showed no significant mineralisation.

Field work in E.L. 992 was delayed pending the interpretation of the geochemical results of the stream sediment sampling mentioned above and the receipt of results of an intensive sampling programme to the south-west in E.L. 690 and 960 in search of kimberlitic minerals.

Some of these results have now been received and field work is being planned for the second half of the year.

3.0

EXPENDITURE

The expenditure by the joint venture partners during the period 12th April to 11th July was as follows:

Staff Salaries	399.50
Consultants' Fees	616.00
Tenement Rental	109.50
	<hr/>
	\$1,125.00
	<hr/>

EXPLORATION LICENCE 992

ORROROO AREA, SOUTH AUSTRALIA

QUARTER ENDED 11TH OCTOBER, 1982

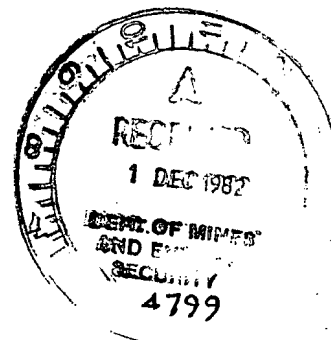
Freeport of Australia Incorporated

and

Swan Resources Ltd.

W.T. MARX
Senior Geologist

November, 1982



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INTRODUCTION

Exploration Licence 992 covers an area of 146 square kilometres immediately to the north of Exploration Licence 690 in which the joint venture partners have been conducting exploration for diamonds.

The licence was granted on 12th April, 1982 for a term of one year.

2.0

EXPLORATION ACTIVITIES

The focus of the diamond exploration effort by the joint venture partners has shifted to the Springfield Triassic Basin which is in the adjoining E.L. 690.

It is felt that the clue to the distribution of kimberlitic minerals is to be found in that location and therefore exploration in E.L. 992 is being held in abeyance.

No field work was carried out during this quarter.

EXPLORATION LICENCE 992
ORROROO REGION, SOUTH AUSTRALIA
QUARTER ENDED JANUARY 11, 1983

Freeport of Australia, Incorporated
and
Swan Resources Ltd.

W.T. MARX
Senior Geologist

January 1983

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1.0

INTRODUCTION

Exploration Licence 992 covers an area of 146 square kilometres immediately to the north of Exploration Licence 1059 in which the joint venture partners have been conducting exploration for diamonds.

The licence was granted on April 12, 1982 for a term of one year.

2.0

EXPLORATION ACTIVITIES

The exploration effort which was concentrated on the Triassic Springfield Basin during this quarter, succeeded in locating the source of the kimberlitic minerals found in samples from the Wirreanda River and its tributaries.

A palaeo-alluvial diamond deposit was found to be hosted by the basal conglomerate of the Springfield Basin.

Sedimentological studies on this unit are planned for the next quarter and this may provide a clue to the location of primary diamond deposits in the region.

The exploration in E.L. 992 is, therefore, being held in abeyance until these studies have been completed.

3.0

FUTURE WORK

The direction further exploration in E.L. 992 will take will be dependent upon the results of the sedimentological studies mentioned in the previous section.

4.0

EXPENDITURE

Expenditure in the licence area by the joint venture partners during the period August 1, 1982 to December 31, 1982 was:

Tenement Rental	884
Staff Salaries	1,636
Consultants Fees	622
Laboratory Charges	1,901
Freight	261
Consumables	705
Sustenance	843
Vehicle Expenses	542
Transport	4,363
Sundry	78
Equipment Hire	2,145
Overheads	1,594
	<hr/>
	\$15,574
	=====

mil?

EXPLORATION LICENCE 992

ORROROO REGION, SOUTH AUSTRALIA

Quarter Ended April 12, 1983

Freeport of Australia, Incorporated

and

Swan Resources Limited

W.T. MARX

Senior Geologist

April, 1983

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1.0

INTRODUCTION

Exploration Licence 992 covers an area of 146 square kilometres immediately to the north of Exploration Licence 1059 in which the joint venture partners have recently discovered the source of the diamonds and other kimberlitic minerals found in the area.

The licence was granted on April 12, 1982, for a term of one year, but in view of the discovery, an extension to the term of the licence has been requested.

2.0

EXPLORATION ACTIVITIES

The exploration effort of the joint venture partners was again concentrated in the neighbouring E.L. 1059 during this quarter.

Bulk sampling results and sedimentological studies of the basal conglomerate of the Springfield Basin, however, prompted further work in E.L. 992.

Seven 25kg stream sediment samples were collected in streams draining the licence area. This work is designed to locate kimberlitic rocks in the area which may have been the source of the diamonds found in the Springfield Basin.

The samples were pan concentrated in the field and the concentrates will be sent to Perth for examination for kimberlitic minerals.

The maps showing the locations of these samples are being prepared and will be presented in the report for the next quarter.

3.0

FUTURE WORK

Any future work in the licence area will be dependant on the results of the stream sediment samples which were collected during the quarter.

4.0

EXPENDITURE

The expenditure details are still being collated and
will be included in the report for the next quarter. //

EXPLORATION LICENCE 992
ORROROO REGION, SOUTH AUSTRALIA
QUARTER ENDED JULY 12, 1983.

Freeport of Australia, Incorporated
and
Swan Resources Ltd

W. T. Marx
Senior Geologist

August, 1983.



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- 2.0 EXPLORATION ACTIVITIES
- 3.0 FUTURE WORK
- 4.0 EXPENDITURE

1.0

INTRODUCTION

Exploration Licence 992 covers an area of 146 km² immediately to the north of Exploration Licence 1059 in which the joint venture partners are currently assessing a paleo-placer diamond deposit.

The licence was granted on April 12, 1982, for a term of one year, but in view of the discovery of the deposit, an extension to the term of the licence was applied for and granted.

2.0

EXPLORATION ACTIVITIES

During this quarter the stream sediment samples, which were collected during the previous quarter, were examined.

No kimberlitic minerals were found.

3.0

FUTURE WORK

Any future work in the licence area will depend on the assessment of the paleo-placer diamond deposit in the adjoining licence area.

4.0

EXPENDITURE

The expenditure in the licence area by the joint venture partners during the period January 1, 1983 to July 31st, 1983 was:

Tenement Rental	-
Staff Salaries	1,987.00
Consultants Fees	11,094.00
Laboratory Charges	1,464.00
Freight	155.00
Consumables	1,543.00
Sustenance	455.00
Vehicle Expenses	794.00
Transport	2,102.00
Sundry	384.00
Equipment Hire	2,849.00
Overheads	1,690.00
	<u>24,517.00</u>

0031

EXPLORATION LICENCE 992
ORROROO REGION, SOUTH AUSTRALIA

Quarter Ended October 12, 1983

Freeport of Australia Incorporated

and

Swan Resources Limited

W.T. MARX

Senior Geologist

November, 1983

INTRODUCTION

Exploration Licence 992 covers an area of 146 square kilometres immediately to the north of Exploration Licence 1059 in which the joint venture partners are currently assessing a paleo-placer diamond deposit.

The Licence was granted on April 12, 1982, for a term of one year, but in view of the discovery of the deposit, an extension to the term of the Licence was applied for and granted.

No field work was carried out in the Licence area during this quarter.

2.0

FUTURE WORK

Any future work in E.L. 992 depends on results of work planned in the neighbouring E.L.'s 1059 and 1140.

EXPLORATION LICENCE 992
ORROROO REGION, SOUTH AUSTRALIA

Quarter Ended January 12, 1984

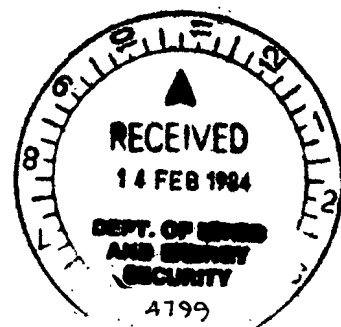
Freeport of Australia Incorporated

and

Swan Resources Limited

W.T. MARX
Senior Geologist

January, 1984



INTRODUCTION

1.0

Exploration Licence 992 covers an area of 146 square kilometres immediately to the north of Exploration Licence 1059 in which the joint venture partners are currently assessing a paleo-placer diamond deposit.

The Licence was granted on April 12, 1982, for a term of one year, but in view of the discovery of the deposit, an extension to the term of the Licence was applied for and granted.

No field work was carried out in the Licence area during this quarter.

2.0

EXPENDITURE

The expenditure incurred by the joint venture partners in the Licence area during the period 1st August to 31st December, 1983 is as follows:

Tenement Rental	\$ -
Staff Salaries	2,031.33
Consultants Fees	1,156.51
Laboratory Charges	-
Freight	-
Consumables	76.55
Sustenance	294.65
Vehicle Expenses	119.74
Transport	-
Sundries	-
Equipment Hire	725.00
Overheads	1,783.38
	<hr/>
	\$ 6,187.16
	<hr/>

0037

EXPLORATION LICENCE 992

ORROROO REGION, SOUTH AUSTRALIA

RELINQUISHMENT REPORT

Freeport of Australia Incorporated

and

Swan Resources Limited

W.T. MARX
Senior Geologist

April, 1984

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Figure 2 Sample Location Map

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Microprobe Analyses

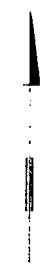
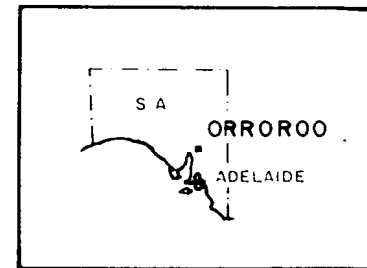
INTRODUCTION

Exploration Licence 992 covers an area of 146 square kilometres immediately to the north of Exploration Licence 1059 in which the joint venture partners have been conducting exploration for diamonds.

The licence was granted on 12th April, 1982, for a term of one year.

After diamonds were found in the neighbouring EL 1059, an extension to the term was applied for and granted.

No mineralisation of economic interest was found and the licence has been relinquished.



32°

138°

139°

EL.992

Cradock

EL. 1140

EL.1059

Quorn

ORROROO PROJECT LOCATION MAP

SCALE

0 30 Km

Fig. 1

2.0

EXPLORATION ACTIVITIES

An airborne magnetic survey flown over Exploration Licences 1140 and 1159 revealed high magnitude magnetic anomalies in the Worumba Diapir just south of the southern boundary of EL 992. These anomalies were considered to be caused by dolerite or diorite intrusions into the diapir and potential locations of base metal mineralisation.

Traces of copper mineralisation were found on field inspection of these locations, but stream sediment sampling in EL 1059, over the diapir showed no significant mineralisation. This downgraded the base metal potential of EL 992 and no further work was carried out on this line of search.

Shortly after the granting of EL 992, the joint venture partners discovered a palaeo-placer diamond deposit in the Triassic conglomerates of the Springfield Basin in EL 1059 to the south of the licence area. This discovery led to an exploration policy of firstly evaluating the palaeo-placer deposit and secondly searching for the primary kimberlitic source of the diamonds in the surrounding area.

As part of this wider search, 7 stream sediment samples were collected in all of the major drainages in EL 992. The samples consisted of 25kg of $\frac{1}{4}$ " material collected in selected trap sites. This material was concentrated in the field on a Pleitz Jig and the concentrates were sent to a laboratory in Perth for further concentration in TBE. The microscopic examination of these final concentrates was carried out by Swan Resources staff in Perth.

No kimberlitic minerals were found.

3.0

EXPENDITURE

The expenditure incurred by the joint venture partners in the Licence area is as follows:

Tenement Rental	\$ 993.50
Staff Salaries	6,053.83
Consultants Fees	13,488.51
Laboratory Charges	3,365.00
Freight	416.00
Consumables	2,324.55
Sustenance	1,592.65
Vehicle Expenses	1,455.74
Transport	6,465.00
Sundries	462.00
Equipment Hire	5,719.00
Overheads	5,067.38
	<hr/>
	\$ 47,403.16
	<hr/>

APPENDIX

MICROPROBE ANALYSES

***** Cobalt Calibration *****

LIVETIME= 50

3044

ENERGY	RES	AREA
5.8	94.60	34606
6923.8	163.10	50437

TOTAL AREA= 116473 GF= 50.038

***** CHROMITE EG42C *****

LIVETIME(spec.)= 50

ENERGY	RES	AREA
5.6	95.96	35152

TOTAL AREA= 78835

Peak at 9.50 keV omitted?

Peak at 10.66 keV omitted?

FIT INDEX= .93

ELMT	APP.CONC	ERROR(WT%)
Si	.131	.057
Ti	.321	.089
Al	6.290	.122
Cr	30.338	.365
Fe	12.300	.293
Mn	.065	.190* < 2 sigma*
Mg	7.375	.241
Ca	.056	.073* < 2 sigma*

[1 2 3 ZAF'S]

20.00 kV TILT=35.00 ELEV= 6.34 AZIM= .00 COSINE= .994

Spectrum: ***** CHROMITE EG42C *****

** 114.0.01.32601 **

Last elmt by STOICHIOMETRY

ELMT	ZAF	%ELMT	ATOM.%	XOXIDE	FORMULA
SiK: 1	.643	.204	.191	.437	.047
TiK: 1	1.063	.302	.166	.503	.041
AlK: 1	.567	11.085	10.815	20.947	2.656
CrK: 1	.929	32.646	16.525	47.713	4.058
Fe:K 1	.915	13.435	6.332	17.283	1.555
MnK: 1	.890	.073	.035	.095	.009
MgK: 1	.898	8.208	8.887	13.610	2.182
CaK: 1	1.031	.054	.035	.075	.009
O K: 1	.000	34.656	57.014	.000	14.000
TOTAL		100.664	100.000	100.664	10.556

***** Cobalt Calibration ***** LIVETIME= 50
 ENERGY RES AREA
 - 5.3 96.50 34262
 6925.2 163.69 60845
 TOTAL AREA= 140996 GF= 50.046
 ***** CHROMITE EG43 ***** LIVETIME(spec.)= 50
 ENERGY RES AREA
 - 4.4 94.66 34786
 TOTAL AREA= 95595

FIT INDEX= .87

ELMT	APP.CONC	ERROR(WT%)
Si	.088	.052* (2 sigma*
Ti	.307	.081
Al	6.779	.114
Cr	27.733	.323
Fe	13.836	.282
Mn	.003	.170* (2 sigma*
Mg	6.560	.213
Ca	.001	.066* (2 sigma*

[1 2 3 ZAF'S]

20.00 kV TILT=35.00 ELEV= 6.34 AZIM= .00 COSINE= .994

Spectrum: ***** CHROMITE EG43 ***** ** 114.0.01.32601 **

Last elmt by STOICHIOMETRY

ELMT	ZAF	%ELMT	ATOM.%	%OXIDE	FORMULA
SiK: 1	.639	.138	.132	.295	.033
Ti:K 1	1.058	.290	.163	.483	.040
AlK: 1	.570	11.909	11.900	22.503	2.924
CrK: 1	.933	29.737	15.417	43.462	3.788
FeK: 1	.918	15.076	7.277	19.395	1.788
MnK: 1	.890	.003	.001	.004	.000
MgK: 1	.895	7.332	8.131	12.157	1.998
Ca:K 1	1.028	.000	.000	.001	.000
O K: 1	.000	33.815	56.977	.000	14.000
TOTAL		98.300	100.000	98.300	10.571

***** Cobalt Calibration *****

LIVETIME= 50

ENERGY	RES	AREA
5.1	95.64	34835
6924.0	161.45	49314
TOTAL AREA= 112817 GF= 50.035		

***** CHROMITE EG41 *****

LIVETIME(spec.)= 50

ENERGY	RES	AREA
5.5	94.68	35201
TOTAL AREA= 79480		

.....

FIT INDEX= 1.03

ELMT	APP. CONC	ERROR(WT%)
Si	.140	.059
Ti	.987	.103
Al	5.188	.116
Cr	30.706	.376
Fe	15.697	.331
Mn	.041	.195* < 2 sigma*
Mg	7.523	.243
Ca	.038	.075* < 2 sigma*

[1 2 3 ZAF'S]

20.00 KV TILT=35.00 ELEV= 6.34 AZIM= .00 COSINE= .994

Spectrum: ***** CHROMITE EG41 *****

** 114.0.01.32601 **

Last elmt by STOICHIOMETRY

ELMT	ZAF	%ELMT	ATOM.%	%OXIDE	FORMULA
SiK: 1	.648	.217	.201	.464	.050
Ti:K 1	1.067	.925	.504	1.543	.124
AlK: 1	.558	9.290	8.985	17.554	2.218
CrK: 1	.937	32.727	16.423	47.831	4.055
FeK: 1	.920	17.047	7.965	21.931	1.966
MnK: 1	.893	.000	.000	.000	.000
MgK: 1	.877	8.564	9.193	14.200	2.270
CaK: 1	1.036	.037	.024	.052	.006
O K: 1	.000	34.768	56.705	.000	14.000
TOTAL		103.574	100.000	103.574	10.689

***** Cobalt Calibration *****

LIVETIME= 50

0047

ENERGY	RES	AREA
5.7	93.36	34199
6924.5	164.10	54324

TOTAL AREA= 124690 GF= 50.043

***** CHROMITE EG42A *****

LIVETIME(spec.)= 50

ENERGY	RES	AREA
5.3	95.79	34955

TOTAL AREA= 87042

FIT INDEX= .67

ELMT	APP. CONC	ERROR(WT%)
Si	.086	.054* < 2 sigma*
Ti	.829	.097
Al	3.878	.099
Cr	33.250	.372
Fe	15.093	.312
Mn	.050	.191* < 2 sigma*
Mg	6.053	.212
Ca	.111	.072* < 2 sigma*

[1 2 3 ZAF'S]

20.00 kV TILT=35.00 ELEV= 6.34 AZIM= .00 COSINE= .994

Spectrum: ***** CHROMITE EG42A *****

** 114.0.01.32601 **

Last elmt by STOICHIOMETRY

ELMT	ZAF	%ELMT	ATOM. %	%OXIDE	FORMULA
SiK: 1	.658	.130	.129	.279	.032
Ti:K 1	1.085	.764	.445	1.275	.110
Al:K 1	.555	6.987	7.229	13.202	1.781
CrK: 1	.942	35.294	18.947	51.584	4.667
FeK: 1	.921	16.391	8.193	21.087	2.018
MnK: 1	.899	.056	.029	.072	.007
Mg:K 1	.856	7.073	8.122	11.728	2.001
CaK: 1	1.047	.106	.074	.149	.018
O K: 1	.000	32.574	56.832	.000	14.000
TOTAL		99.376	100.000	99.376	10.634

***** Cobalt Calibration *****

LIVETIME= 50

3048

ENERGY	RES	AREA
5.7	94.47	34480
6925.1	164.17	53987

TOTAL AREA= 123558 GF= 50.048

***** CHROMITE EG42B *****

LIVETIME(spec.)= 50

ENERGY	RES	AREA
5.5	96.08	35392

TOTAL AREA= 81940

.....
Peak at 13.58 keV omitted?

FIT INDEX= .59

ELMT	APP.CONC	ERROR(WT%)
Si	.035	.053* < 2 sigma*
Ti	.373	.086
Al	7.289	.123
Cr	27.306	.338
Fe	14.118	.303
Mn	.179	.178* < 2 sigma*
Mg	6.099	.222
Ca	.040	.069* < 2 sigma*

[1 2 3 ZAF'S]

20.00 kV TILT=35.00 ELEV= 6.34 AZIM= .00 COSINE= .994

Spectrum: ***** CHROMITE EG42B *****

** 114.0.01.32601 **

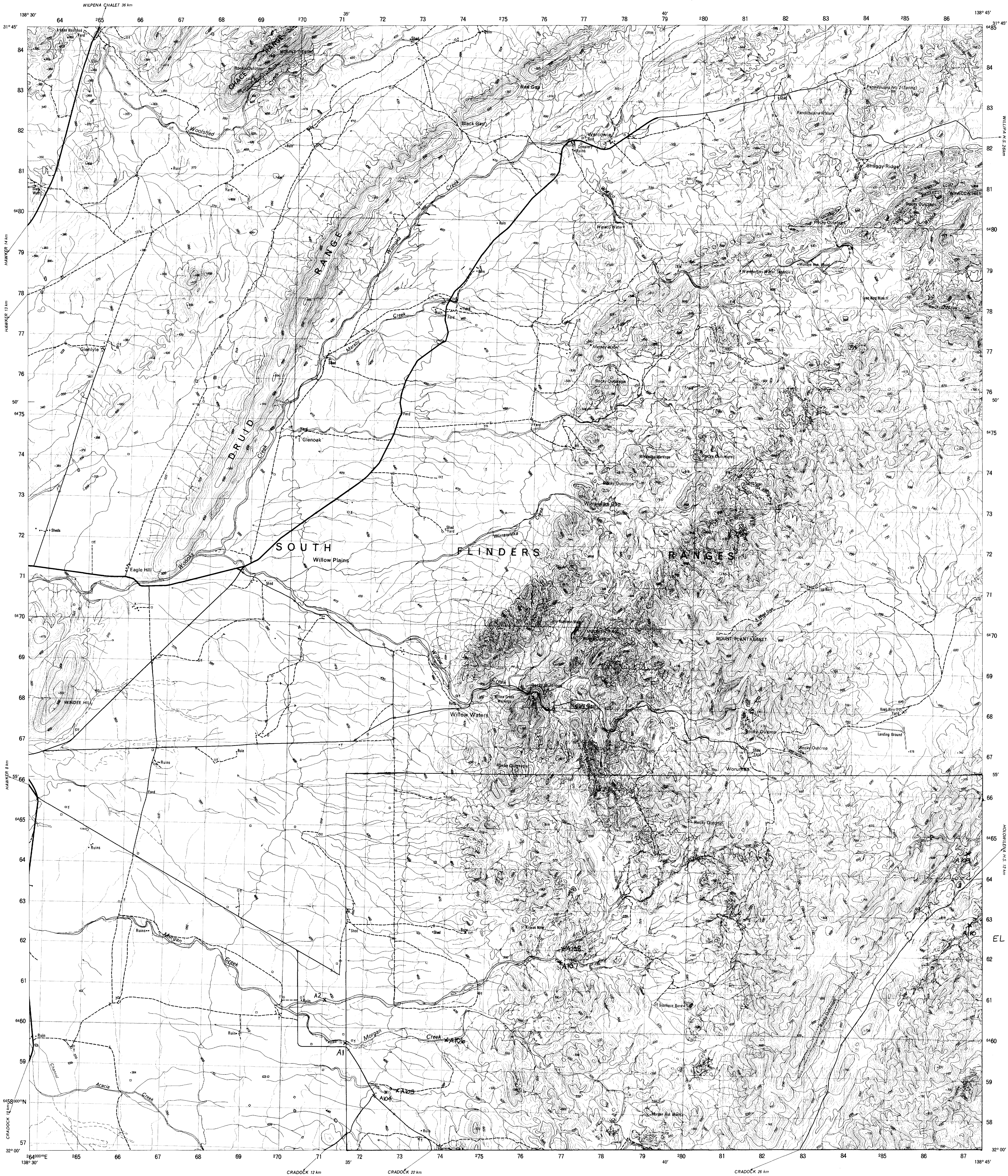
Last elmt by STOICHIOMETRY

ELMT	ZAF	%ELMT	ATOM.%	XOXIDE	FORMULA
SiK: 1	.638	.055	.052	.117	.013
TiK: 1	1.056	.354	.198	.590	.049
AlK: 1	.573	12.723	12.630	24.040	3.099
CrK: 1	.933	29.264	15.073	42.770	3.699
FeK: 1	.919	15.368	7.370	19.771	1.808
MnK: 1	.889	.201	.098	.259	.024
MgK: 1	.896	6.811	7.504	11.294	1.842
CaK: 1	1.027	.039	.026	.054	.006
O K: 1	.000	34.082	57.050	.000	14.000
TOTAL		98.895	100.000	98.895	10.540

WARCOWIE
SOUTH AUSTRALIA

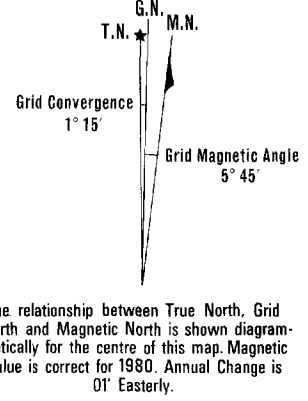
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SECOND EDITION



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ELEVATION Australian Height Datum. Elevations in metres.
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DETAIL Aerial Photography, Svy. S.A. 2498, & 2499, December, 1979.
PHOTOGRAPHY D.J. Woodman, Government Printer, 1981.

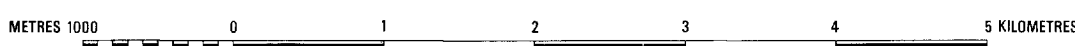
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TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METRES	
SAMPLE POINT: MOUNT PLANTAGENET	
1 Read letters identifying 100 000 metre square in which the point lies	TK
2 Locate first VERTICAL grid line to LEFT of point and read LARGE figure labelling the line in either the top or bottom margin, or on the line itself	80
3 Estimate tenths from grid line to point	6
4 Locate first HORIZONTAL grid line BELOW point and read LARGE figure labelling the line in either the left or right margin, or on the line itself	9
5 Estimate tenths from grid line to point	5
SAMPLE REFERENCE: 6479999999	
If mapping beyond 10' in any direction, prefix Grid Zone Designation, as: 6479999999	



- Built-up area: Parks, recreation areas.
Road, sealed surface, two or more lanes: National route marker.
Road, sealed surface, one lane.
Road, unsealed surface, two or more lanes: Bridge.
Road, unsealed surface, one lane: Gate: Cattle grid.
Vehicular track.
Railway, multiple track: Station: Siding.
Railway, single track: Cutting: Embankment.
Building: Post office: School.
Hospital: Church: Mine: Windmill.
Fence: Quarry.
Power transmission line: Levee or bank.

- Survey beacon: Spot elevation.
Rock, bare or awash: Reef.
Lake, perennial: Watercourse.
Lake, intermittent: Land subject to inundation.
Lake, mainly dry: Land subject to occasional flooding.
Dam or waterhole on watercourse: Tank or small dam.
Contours: Depression contours.
Sand: Sand ridges.
Pine plantation: Orchard or vineyard.
Windbreak.
Trees and scrub, scattered.
Trees and scrub, medium, dense.

SCALE 1:50000



CONTOUR INTERVAL 10 METRES

The representation of a road on this map is no evidence of the existence of a right of way.



WORLD GEODETIC SYSTEM
To convert World Geodetic System 1972 to Australian Geodetic Datum 1986 co-ordinates on which this map is based:
Increase the numerical value of latitude by 5.2" equivalent to 159m.
Decrease the numerical value of longitude by 4.2" equivalent to 110m.
To obtain heights above mean sea level, increase satellite heights by 7m.

INDEX TO HUNDREDS	
ARKABA	WARCOWIE
WIDREANDA	YEMALIE

ADJOINING SHEETS		
MORALANA 6534-I	WILPENNA 6534-IV	CHACE 6534-I
HAWKER 6534-II	WARCOWIE 6634-III	HOLWILLENA 6634-II
KANYARA 6534-I	YEMALIE 6534-IV	SICCUS 6634-I

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