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NUMBER 8843

EL 1904 WELBOURN HILL

**ANNUAL AND FINAL REPORTS FOR THE PERIOD
13/12/93 TO 12/6/96**

Submitted by

**Laura Holdings Pty Ltd
1994**

©11/7/96

**MINES AND ENERGY
SOUTH AUSTRALIA**



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Mines and Energy South Australia, PO Box 151, Eastwood, SA 5063

ENVELOPE 8843

TENEMENT: EL 1904 Welbourn Hill

TENEMENT HOLDER: Laura Holdings Pty Ltd

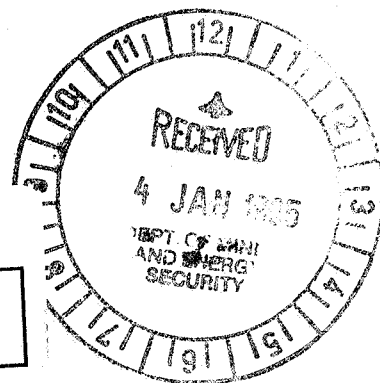
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	MESA NO.
REPORT: Robinson, S.H., 1994. EL 1904 Wellbourn Hill. Annual report for the year ended 12 December 1994 [Note: A colour microfilm image of Pg. 9 is included at the back of the text on the microfiche].	8843 R 1 Pgs 3-11
APPENDIX 1: Geochemical analyses E 1904 (Genalysis Laboratory Services Pty Ltd).	Pgs 12-18
REPORT: Robinson, S.H., 1996. EL 1904 Wellbourn Hill. Final report for period ended 12 June, 1996.	8843 R 2 Pgs 19-24

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EXPLORATION LICENCE 1904
WELBOURN HILL
ANNUAL REPORT FOR YEAR ENDED
12 DECEMBER 1994

Report prepared for
Laura Holdings Pty Ltd
by
Stuart H. Robinson
December 1994



R95/00018

ANNUAL REPORT WELBOURN HILL EL 1904

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Aeromagnetic Image 2. 1 : 250,000

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ANNUAL REPORT WELBOURN HILL EXPLORATION LICENCE 1904

INTRODUCTION

Exploration Licence 1904 is located in the central portion of the Wintinna 1:250,000 sheet in the far North of South Australia. The Exploration Licence covers 986 square kilometres and was granted to Laura Holdings Pty Ltd on 13 December 1993. This report covers all exploration work completed on the tenement during its first year of currency.

LOCATION AND ACCESS

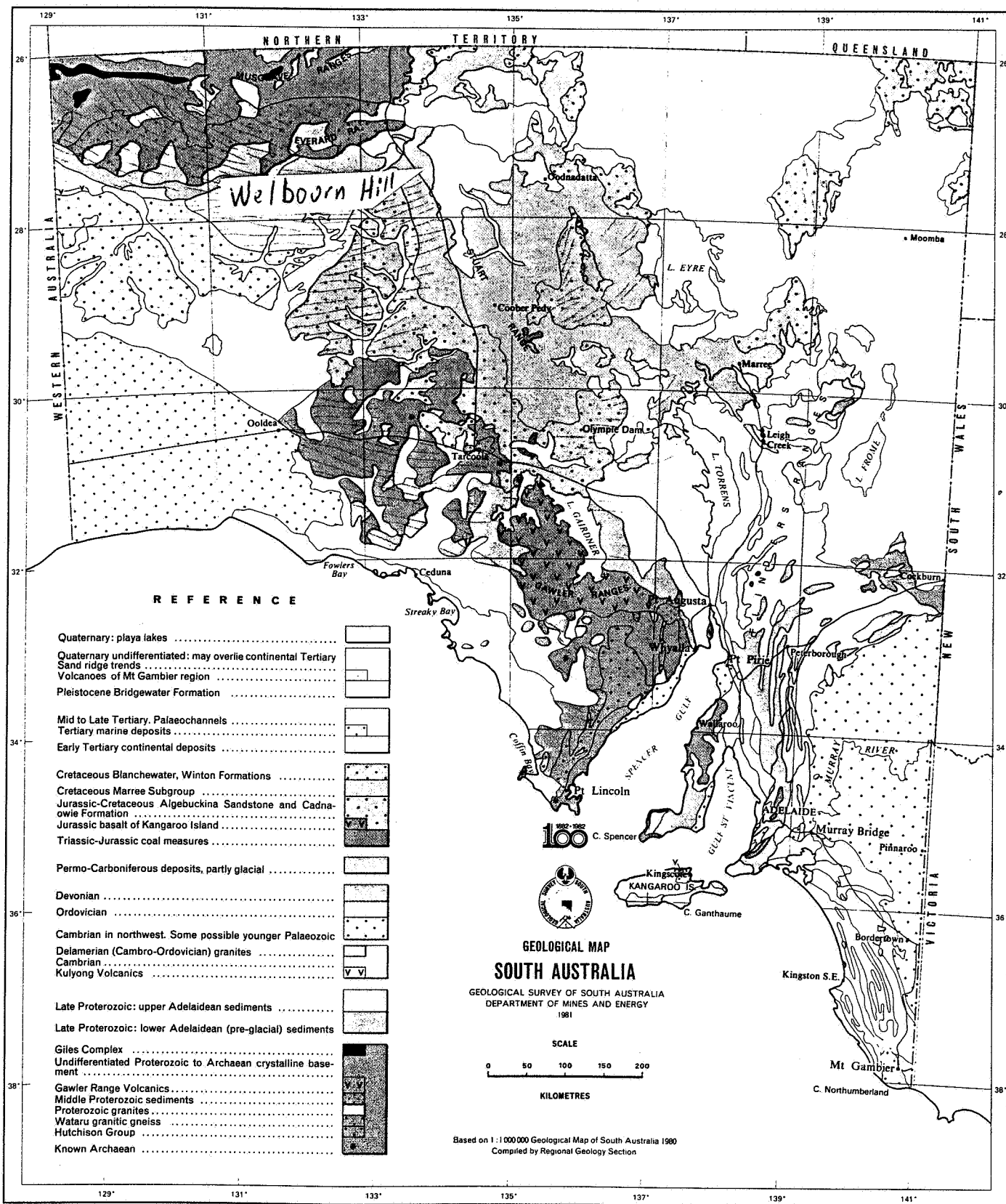
As mentioned above Exploration Licence 1903 is located in the central portion of the Wintinna sheet. The Welbourn Hill station homestead is located on the tenement which is on the Marla, Sarda Bluff and Welbourn 1:50,000 sheets. The Stuart Highway near Marla roadhouse runs roughly east-west through the tenement. Further access is provided by various station tracks and fencelines. The area is flat and lightly vegetated so that across country access in a 4 wheel drive vehicle is available to more or less any point although it can be quite slow due to the rough nature of the surface.

GEOLOGY

The area is underlain by rock sequences of the Warburton Basin consisting of flat lying Cretaceous, Tertiary and Quaternary sediments. Beneath this sedimentary sequence which is estimated to be less than one up to several hundred metres thick in this area is a basement of Lower Proterozoic or Archaean rocks near the northern margin of the Gawler Block.

The southern edge of the east-west trending Bitchera Ridge is inferred to run along the northern boundary of E1904. There is very little information on the nature of the rocks of the Gawler Block in this area. The nearest outcrops of Proterozoic rocks are the Peake and Denison Inliers some 150 kilometres to the south-east. The relatively few wells drilled for water or oil and gas in the district were generally terminated upon reaching basement lithologies.

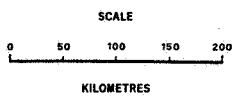
The surface of the tenement is mostly covered by recent sand. The underlying sediments are inferred to be Yardinna Claystone and Alberga Limestone or other equivalents. These Tertiary rocks may be underlain by Oodnadatta Formation



REFERENCE

- Quaternary: playa lakes
- Quaternary undifferentiated: may overlie continental Tertiary Sand ridge trends
- Volcanoes of Mt Gambier region
- Pleistocene Bridgewater Formation
- Mid to Late Tertiary. Palaeochannels
- Tertiary marine deposits
- Early Tertiary continental deposits
- Cretaceous Blanchewater, Winton Formations
- Cretaceous Marree Subgroup
- Jurassic-Cretaceous Algebuckina Sandstone and Cadnawie Formation
- Jurassic basalt of Kangaroo Island
- Triassic-Jurassic coal measures
- Permo-Carboniferous deposits, partly glacial
- Devonian
- Ordovician
- Cambrian in northwest. Some possible younger Palaeozoic
- Delamerian (Cambro-Ordovician) granites
- Cambrian
- Kuliyong Volcanics
- Late Proterozoic: upper Adelaidean sediments
- Late Proterozoic: lower Adelaidean (pre-glacial) sediments
- Giles Complex
- Undifferentiated Proterozoic to Archaean crystalline basement
- Gawler Range Volcanics
- Middle Proterozoic sediments
- Proterozoic granites
- Wataru granitic gneiss
- Hutchison Group
- Known Archaean

GEOLOGICAL MAP
SOUTH AUSTRALIA
 GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
 DEPARTMENT OF MINES AND ENERGY
 1981



Based on 1:1 000 000 Geological Map of South Australia 1960
 Compiled by Regional Geology Section

and/or Bulldog Shale, both Cretaceous units. There are no likely sources for shallow, isolated, magnetic dipoles recorded in the mapping data.

AEROMAGNETIC DATA

The aeromagnetic data was acquired from MESA. The survey had been flown as part of the South Australian Exploration Initiative. Data was acquired on north-south lines spaced a normal 400 metres apart with a mean terrain clearance of 80 metres. Detailed specifications for this survey have been published by MESA.

There are several basement structures visible in the data trending across the tenement in a roughly north easterly direction but apart from a couple of magnetic highs from the basement the area is generally magnetically quiet. The main interpretative activity completed has been searching the data in the various presentation formats looking for isolated dipolar features that have similarities to those features seen over kimberlitic diatremes. Anomalies of this type are known to occur on the Abminga sheet to the north of the Welbourn Hill EL.

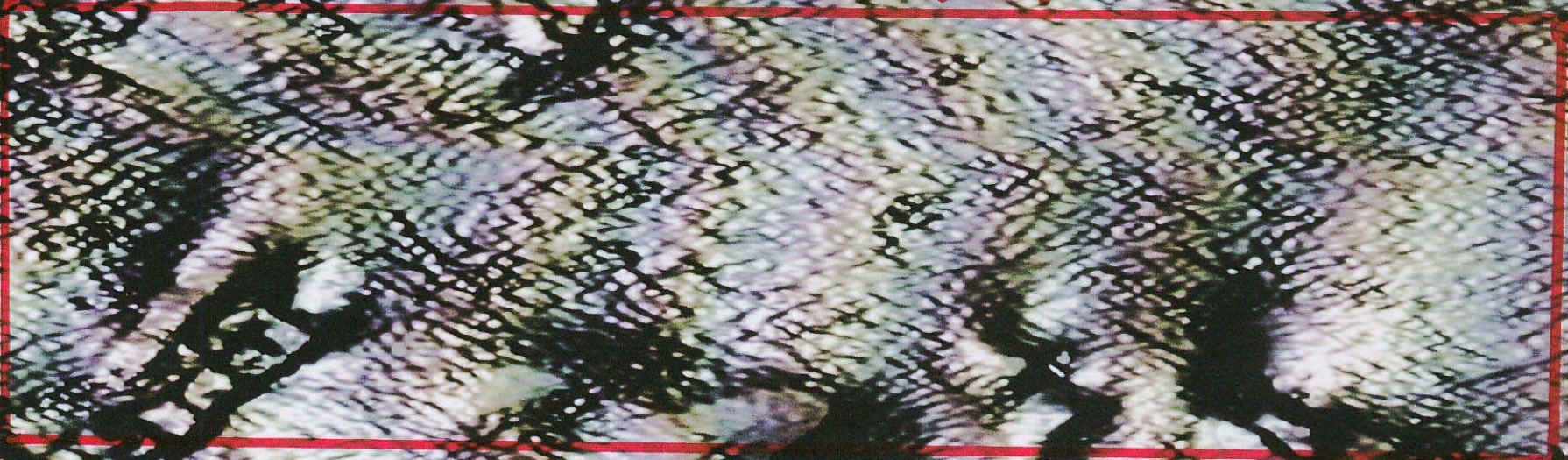
The deep-seated strong magnetic features in the basement make recognition of small anomalies difficult but 27 isolated magnetic dipolar features have been identified on EL 1904. (see images 1 and 2 overleaf.) The features are characterised as isolated, low amplitude dipolar anomalies of short strike length. The anomalies were priority ranked according to the degree of certainty of the identification. Rank 1 anomalies exhibit the magnetic character sought; isolation, short strike length dipolar form and small amplitude indicative of a shallow, compact source. Rank 2 anomalies also show many of these characteristics but the identification is less certain due to interference by other features or other factors. On EL 1904 8 anomalies have been selected and assigned a priority 1 ranking and another 19 anomalies have been assigned a priority 2 ranking. The anomalies have been assigned numbers from 650 to 676. Their locations are shown on the attached figure 1.

FIELD INVESTIGATIONS

Many of the identified magnetic features have been field checked to try to establish their source. A few of the anomalies are coincident upon man made buildings, bores etc. and are probably due to these cultural sources. In the majority of cases the anomalies fell on soil and sand covered plains with no discernable distinguishing features. Some rock floaters were present on the sites of Anomalies #672 and #668. Samples were taken of these, designated 1904-1C and 1904-2C respectively, and submitted for assay to Genalysis Laboratory Services in Perth. They were analysed for Mg, P, K, Ti, Cr, Co, Ni, Rb, Sr, Y, Zr, Nb, Cs, Ba, La and Ce. Results are included in the Appendix.

E. 1904.

↑ N



800000

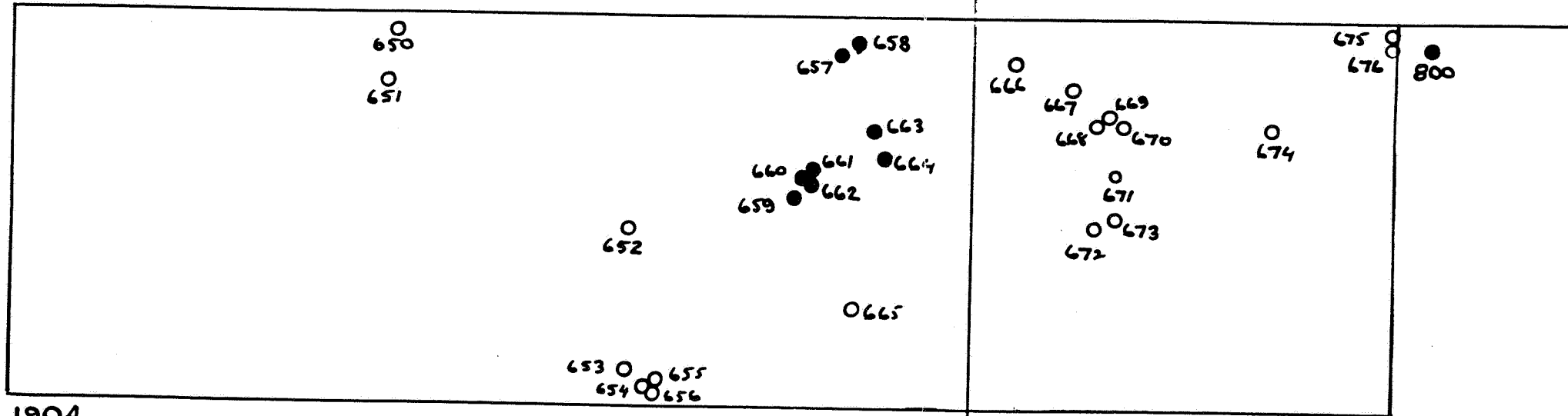
E.1904.



N
↑

600009

134° 00'



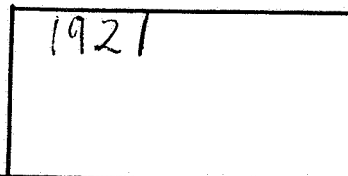
1904

CALDERA RESOURCES NL
 WELBOURN HILL E 1904
 ANOMALY LOCATIONS

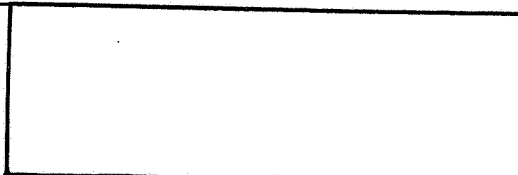
● Priority 1 Anomaly
 ○ Priority 2 Anomaly

1:250,000

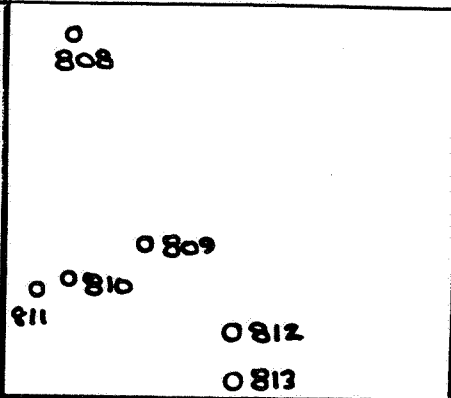
27° 30'



1921



1911



457/02

000010

There is a cluster of 4 priority 1 anomalies designated 659 to 662 located immediately to the west of Neville Tank. There is no outcrop in the area but it was considered likely that the soils in the area were residual. A rough grid was set up using GPS instrumentation. Samples were taken at 300 metre intervals along 4 east west lines spaced 500 metres apart. Line 1 is 6981000N, Line 2 is 6980500N, Line 3 is 6980000N and Line 4 is 6979500N. On each line sample 1 was collected at 395000E with each successive sample collected from a location 300 metres further west until 6 samples had been collected on each line.

The samples were trucked to Perth and submitted to Genalysis Laboratory Services for analysis for Mg, P, K, Ti, Cr, Co, Ni, Rb, Sr, Y, Zr, Nb, Cs, Ba, La and Ce. Results are included in the Appendix.

RECOMMENDATIONS

- 1 It is recommended that the anomalies that have not yet been field checked should be visited on site.
- 2 Those anomalies that are not obviously due to culture should be modelled using computer techniques. The anomalies should then be priority ranked for drill follow-up.
- 3 The highest ranking targets should then be investigated by RC or air core drilling to a depth of 60 to 80 metres in order to try to establish the cause of the dipolar anomalies. Further work will be determined by the results of this programme.

APPENDIX 1
GEOCHEMICAL ANALYSES
E1904

000013

GENALYSIS LABORATORY SERVICES PTY. LTD.

E.1904

LABORATORY REPORT

COMMENTS : ATTENTION: C REINDLER .. PROVISIONAL REPORT ONLY ..
COMMENTS : ALL RESULTS SUBJECT TO CONFIRMATION

JOB INFORMATION

JOB CODE : 64.0/944291
NO. SAMPLES : 36
ELEMENTS : 16
CLIENT O/N : NOTE 1/8
DATE RECEIVED : 01/08/94
DATE COMPLETED : 10/08/94

PROVISIONAL
RESULTS

LEGEND

'X' = LESS THAN DETECTION LIMIT
'N/L' = SAMPLE NOT RECEIVED
'*' = RESULTS CHECKED
'()' = RESULTS STILL TO COME
'I/S' = INSUFFICIENT SAMPLE FOR ANALYSIS
'E6' = RESULT x 1,000,000

000014

64.0/944291

GENALYSIS (10/08/94)

Part 1 / Page 1

ELEMENTS	Bg	P	K	Tl	Cr	Co	Ni	Rb	Sr	Y	Zr
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION	20	20	20	5	2	1	1	0.2	0.1	0.1	1
METHOD	A/OES	A/OES	A/OES	A/OES	A/OES	A/MS	A/OES	A/MS	A/MS	A/MS	A/MS
SAMPLE NUMBERS											
1 459	5000	220	1.18%	4400	48	8	20	64.0	125.0	15.0	78
2 460	6600	260	1.35%	4400	58	13	24	90.0	155.0	21.5	104
3 461	4500	260	1.40%	4700	48	8	18	68.0	120.0	14.5	80
4 462	4300	200	1.30%	4500	46	10	20	72.0	125.0	15.0	76
5 465	4700	180	1.20%	4100	48	11	19	72.0	135.0	16.0	86
6 500	700	140	1.50%	3500	32	2	10	62.0	84.0	4.7	36
7 500 AHT	1100	180	1.40%	3900	80	4	23	62.0	88.0	6.2	39
8 517	2750	100	1.55%	3200	32	4	13	62.0	104.0	6.6	36
9 517 AHT	4400	140	1.60%	3600	48	5	15	66.0	125.0	8.0	40
10 520	700	120	1.40%	3500	26	39	r 10	72.0	92.0	35.0r	50
11 LINE1:1	7200	260	1.08%	4900	72	6	32	68.0	102.0	14.5	70
12 LINE1:2	2200	340	1.02%	5600	72	5	24	66.0	70.0	16.5	98
13 LINE1:3	2100	400	1.04%	5800	70	6	29	66.0	72.0	17.0	102
14 LINE1:4	1650	380	1.04%	5400	62	4	22	62.0	64.0	11.6	100
15 LINE1:5	2400	280	1.06%	5400	68	9	25	64.0	74.0	17.0	98
16 LINE1:6	2500	380	1.14%	4700	58	7	27	68.0	78.0	17.5	86
17 LINE2:1	6800	260	1.25%	4400	52	10	30	70.0	110.0	18.5	94
18 LINE2:2	7200	280	1.40%	4500	62	11	29	70.0	102.0	17.5	86
19 LINE2:3	6200	340	1.30%	4600	58	8	31	74.0	94.0	17.5	90
20 LINE2:4	1850	280	1.02%	4800	52	8	14	52.0	70.0	10.8	74
21 LINE2:5	2950	220	1.00%	4800	60	6	22	64.0	82.0	13.5	96
22 LINE2:6	2350	280	9400	4800	68	11	21	58.0	72.0	13.5	92
23 LINE3:1	6200	280	1.14%	5000	52	8	27	74.0	96.0	18.5	104
24 LINE3:2	1800	200	1.08%	5000	54	9	15	60.0	82.0	15.5	90
25 LINE3:3	1500	180	1.08%	4600	62	8	14	54.0	70.0	12.0	82
26 LINE3:4	6200	240	1.18%	4800	52	8	22	68.0	94.0	16.5	88
27 LINE3:5	1500	220	8200	4800	78	9	15	39.0	54.0	12.0	80
28 LINE3:6	2900	220	8600	5000	66	8	18	50.0	74.0	13.0	98
29 LINE4:1	7000	220	1.20%	5200	52	9	30	78.0	108.0	18.5	102
30 LINE4:2	7000	300	1.30%	5000	40	9	25	78.0	108.0	18.0	104
31 LINE4:3	2350	380	1.08%	5200	32	6	20	66.0	70.0	15.0	94
32 LINE4:4	1850	240	1.02%	5400	46	7	12	46.0	62.0	13.0	90
33 LINE4:5	3800	320	1.16%	5600	42	8	21	56.0	74.0	14.5	92
34 LINE4:6	1750	260	1.18%	4500	50	6	13	49.0	62.0	10.4	68
35 OLR03	5200	340	1.60%	4700	32	9	19	66.0	130.0	14.0	84
36 OLR11	1.04%r	900	r 2.20%r	4500	44	15	27	80.0	190.0	18.0	120
Ch. 0001 (459	) 5200	240	1.20%	4100	46	8	18	56.0	116.0	12.0	72
Ch. 0026 (LINE3:4	) 6000	260	1.30%	4600	48	8	24	66.0	92.0	16.5	88
STD: PC02	1.55%	880	1.04%	4600	880		2150				
STD: PC02						41		180.0	255.0	34.0	245

PROVISIONAL RESULTS

E. 1904

000015

64.0/944291

GENALYSIS (10/08/94)

Part 2 / Page 1

ELEMENTS	Nb	Cs	Ba	La	Ce
UNITS	ppm	ppm	ppm	ppm	ppm
DETECTION	0.3	0.2	1	0.1	0.1
METHOD	A/MS	A/MS	A/MS	A/MS	A/MS
SAMPLE NUMBERS					
1 459	11.5	3.0	780	22.5	44.0
2 460	12.0	4.4	520	28.5	60.0
3 461	10.0	3.0	540	23.0	47.0
4 462	9.5	3.4	560	23.5	50.0
5 465	9.5	3.6	540	24.5	50.0

6 500	7.5	1.4	560	11.2	21.0
7 500 ANT	8.0	1.8	520	12.5	24.5
8 517	6.5	1.4	680	13.0	26.0
9 517 ANT	7.0	1.8	760	16.0	31.0
10 520	34.0r	34.0r	440	39.0r	46.0

11 LINE1:1	10.5	3.4	920	22.5	44.0
12 LINE1:2	12.5	4.4	360	26.0	56.0
13 LINE1:3	12.5	4.2	450	28.5	56.0
14 LINE1:4	12.0	3.8	330	23.0	43.0
15 LINE1:5	13.0	3.4	500	27.0	74.0

16 LINE1:6	11.0	3.8	460	29.5	54.0
17 LINE2:1	11.0	5.2	560	29.0	58.0
18 LINE2:2	10.0	3.8	660	28.0	54.0
19 LINE2:3	10.0	4.0	520	32.0	60.0
20 LINE2:4	11.0	2.2	400	20.0	48.0

21 LINE2:5	11.5	4.4	400	28.5	47.0
22 LINE2:6	10.0	3.2	330	24.5	47.0
23 LINE3:1	12.0	4.4	410	31.0	56.0
24 LINE3:2	11.5	3.0	500	24.0	50.0
25 LINE3:3	11.5	1.8	480	20.5	49.0

26 LINE3:4	10.5	4.0	660	27.0	50.0
27 LINE3:5	11.0	1.6	480	19.0	45.0
28 LINE3:6	11.5	3.6	680	22.0	47.0
29 LINE4:1	13.0	4.8	440	32.0	60.0
30 LINE4:2	11.5	4.8	450	31.0	60.0

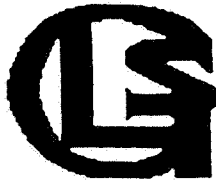
31 LINE4:3	11.0	4.0	400	28.5	52.0
32 LINE4:4	12.0	2.4	540	23.5	50.0
33 LINE4:5	11.5	3.4	520	25.5	52.0
34 LINE4:6	9.5	1.8	420	21.0	45.0
35 QLR03	10.0	3.6	560	25.5	52.0

36 QLR11	10.0	7.2	390	26.5	58.0
Ch. 0001 (459)	) 9.0	2.8	720	23.0	46.0
Ch. 0026 (LINE3:4)	) 10.5	3.8	620	28.0	54.0
STD: PC02					
STD: PC02	55.0	16.5	1000	760.0	1350.0

PROVISIONAL
RESULTS

E.1904

End of report



GENALYSIS
LABORATORY
SERVICES PTY. LTD.

MAIN OFFICE & LAB 15-17 Davison St. Maddington WA 6109 PO Box 144 Gosnells WA 6110 Ph 09 459 9011 Fax 09 459 5343
KALGOORLIE SAMPLE PREP. DIVISION 12 Keogh Way Kalgoorlie WA 6430 PO Box 388 Kalgoorlie WA 6430 Ph 090 21 6057 Fax 090 21 3476

ATTENTION CHRIS REINDLER
REINDLER C
26 THELMA STREET
COMO WA 6152
AUSTRALIA

ANALYTICAL REPORT.

COMMENTS : ATTENTION: C REINDLER ...
COMMENTS : UNSPEC.....

Laura J.V

JOB INFORMATION

JOB CODE : 64.0/944631
NO. SAMPLES : 5
ELEMENTS : 16
CLIENT O/N : FAX 15/8
DATE RECEIVED : 15/08/94
DATE COMPLETED : 22/08/94

2 Samples 1918
1 Sample 1919
2 Samples 1904

LEGEND

'X' = LESS THAN DETECTION LIMIT
'N/L' = SAMPLE NOT RECEIVED
'*' = RESULTS CHECKED
'()' = RESULTS STILL TO COME
'I/S' = INSUFFICIENT SAMPLE FOR ANALYSIS
'E6' = RESULT x 1,000,000

64.0/944631

GENALYSIS (22/08/94)

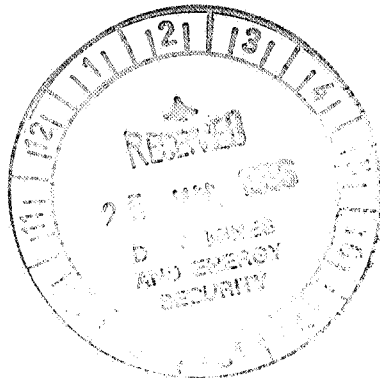
Part 1 / Page 1

ELEMENTS	Ng	P	K	Ti	Cr	Co	Ni	Rb	Sr	Y	Zr
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION	20	20	20	5	2	1	1	0.2	0.1	0.1	1
METHOD	A/OES	A/OES	A/OES	A/OES	A/OES	A/MS	A/OES	A/MS	A/MS	A/MS	A/MS
SAMPLE NUMBERS											
1 0453-C1	2950	120	1.25%	3600	110	4	15	54.0	114.0	11.0	66
2 0455-1C	2750	300	5000	5800	150	11	33	52.0	84.0	19.0	102
3 0517-1C	7800	60	3500	640	16	3	3	16.0	420.0	70.0	14
1904 - 4 1904-1C	1060	60	680	1.02%	114	2	6	6.4	36.0	14.0	160
1904 - 5 1904-2C	2100	80	2750	1750	20	5	11	19.5	94.0	16.5	54
Ch. 0001 (0453-C1)	2900	120	1.18%	3800	125	4	14	56.0	125.0	11.2	68
STD: PC02	1.65%	860	1.08%	4700	880		2050				
STD: PC02						38		180.0	270.0	54.0	245

**EXPLORATION LICENCE 1904
WELBOURN HILL**

**FINAL REPORT FOR PERIOD ENDED
12 JUNE, 1996**

**Report prepared for
Laura Holdings Pty. Ltd.
by Stuart Robinson
July, 1996**



Mines & Energy SA

R96/01613



**FINAL REPORT
WELBOURN HILL EL 1904**

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INTRODUCTION

Exploration Licence 1904 is located in the north central part of the Wintinna 1:250,000 sheet in the far north of South Australia. The original Licence covered 986 square kilometres and it was granted to Laura Holdings Pty. Ltd. on 13 December, 1993. In May 1995 an extension of the Licence over a much reduced area was applied for. This report covers all exploration work completed on the tenement during the final year of currency. The exploration work has been managed by Caldera Resources NL on behalf of its 75% owned subsidiary, Laura Holdings Pty. Ltd.

LOCATION AND ACCESS

As stated above Exploration Licence 1904 is located in the north central part of the Wintinna sheet. The tenement covers the Welbourn Hill station homestead and covers parts of the Welbourn, Sarda Bluff and Marla 1:50,000 sheets. Access is via various station tracks and fencelines from the Stuart Highway and the Marla to Oodnadatta road. The area is flat and lightly vegetated so that across country access in a four wheel drive vehicle is generally possible although it can be quite slow due to the rough nature of the surface.

GEOLOGY

The area is underlain by flat-lying Cretaceous, Tertiary and Quaternary sediments. Beneath this sedimentary sequence which is estimated to vary from one to several hundred metres thick is a basement of Lower Proterozoic or Archaean rocks near the northern margin of the Gawler Block.

The tenement is situated just south of the southern edge of the east-west trending Bitchera Ridge. There is very little information on the nature of the rocks in the Gawler Block in this area. The nearest outcrops of Proterozoic rocks are the Peake and Denison Inliers some 150 kilometres to the east. The relatively few wells drilled for water or oil and gas in the district were terminated upon reaching basement

lithologies if indeed they penetrated to that depth.

The surface of the tenement is mostly covered by soil and sand. The underlying sediments are inferred to be Yardinna Claystone and/or Alberga Limestone or their equivalents. These Tertiary rocks may be underlain by Oodnadatta Formation and/or Bulldog Shale, both Cretaceous units.

AEROMAGNETIC DATA

The aeromagnetic data was acquired from MESA but had been processed by AGSO. The survey was part of the South Australian Exploration Initiative. Data was acquired on north-south lines spaced a nominal 400 metres apart with a mean terrain clearance of 80 metres. Detailed specifications for this survey have been published by MESA.

There are several basement structures visible in the data trending across the tenement in a roughly northeasterly direction but apart from a couple of magnetic highs from the basement the area is moderately magnetically quiet. The first activity was to search the data as presented by AGSO looking for isolated dipolar features that have similarities to those features known to occur over kimberlitic diatremes. These features are characterised by isolated, low amplitude, dipolar anomalies of short strike length. The anomalies were priority ranked according to the degree of certainty of identification. Rank 1 anomalies exhibit the magnetic character sought; isolation, short strike length, dipolar form and small amplitude indicative of a shallow compact source. Rank 2 anomalies also show many of these characteristics but the identification is less certain.

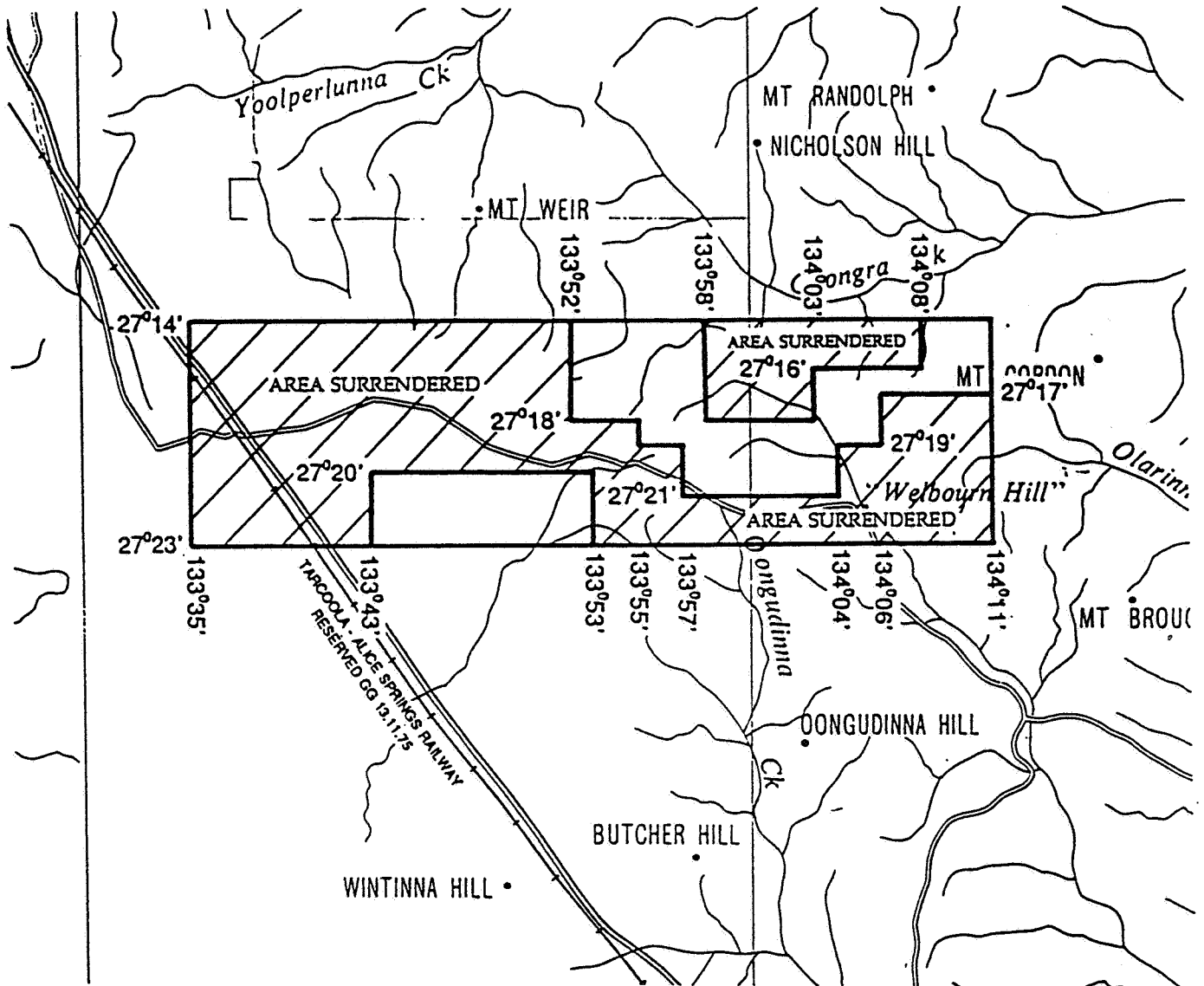
The consultant geophysicist selected from the AGSO data 27 anomalies; 8 of which were assigned a rank 1 priority. The remainder were considered rank 2 priority. These anomalies were given anomaly numbers starting at 650 and going through to 676.

Caldera's geoscientists were not satisfied with the quality of the data as presented by AGSO and commissioned Allender Exploration to reprocess the data. A number of levelling problems in the original data set are evident. The processing by AGSO had removed some of them but in the process had also filtered out some features of

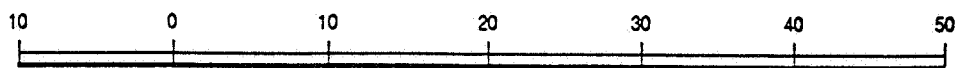
possible interest and created some artifacts. The reprocessed data was inspected looking for the desired dipolar anomalies. Some 18 features were recognised, 5 of them were given a rank 1 priority with the others being rank 2. Interestingly only 7 of the 27 features picked from the original AGSO data repeated (Anomalies 675, 658, 657, 661, 660, 671 and 672). The remaining 11 features were assigned anomaly numbers from 677 to 687.

WORK COMPLETED

During the final year of currency the selected features were reviewed in the light of results being obtained on other tenements in the district held by Caldera Resources NL. As a consequence of this review it was concluded that the features on EL 1904 were of low economic priority. Of particular concern was that only 7 of the features were identifiable on both data presentations. It is considered that there are better priority targets elsewhere and there is no adequate reason to renew EL 1904.



SCALE 1 : 500 000



KILOMETRES

APPLICANT : LAURA HOLDINGS PTY. LTD.

DM : 338/93

1:250 000 PLANS : WINTINNA

LOCALITY : WELBOURN HILL AREA - Immediately east of Marla

DATE GRANTED : 13/12/1993

DATE EXPIRED : 12/12/1994⁵

274
AREA : ~~386~~ square kilometres (approx.)

EL No : 1904