

Open File Envelope

No. 8740

EL 1763

YARRAMBA

FIRST PARTIAL RELINQUISHMENT REPORT FOR THE PERIOD 16/3/92 TO 15/9/93

Submitted by

Placer Exploration Ltd
1993

© open file date 18/3/94

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
Ground Floor
101 Grenfell Street, Adelaide 5000

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



**PRIMARY INDUSTRIES
AND RESOURCES SA**

ENVELOPE 8740

TENEMENT: EL 1763, Yarramba

TENEMENT HOLDER: Placer Exploration Ltd

CONTENTS

REPORT:	Anderson, C., 1993. Report on relinquishment portion of Yarramba, El 1763.	MESA NO. 8740 R1 Pgs 3-6.
PLANS	Scale	Company Plan no.
Fig. 2	Location of established grids and drill holes.	1:250 000 281 - 108A Pg. 6 A3
APPENDIX A:	Exploration data, Cartspring Dam. Ground magnetics [Line 20 300W] and diamond drilling [Line 22 800N] (Amdel report no. 2 AD 2506).	Pgs 7-33
PLANS	Scale	Company Plan no.
	Cartspring Dam Line 20 300N.	1:25 000 Pg. 8 A3
	Diamond drillhole DD 92 CD1 Section 22 800N.	1:2 000 281 - 109 Pg. 10 A3
APPENDIX B:	Exploration data, Security Dam. Induced polarisation survey [Line SD 1], ground magnetics [Line SD 3] and rotary drilling [Line SD 3].	Pgs 34-45
PLANS	Scale	Company Plan no.
	Security Dam:	
Fig. 15	Line SD 1, IP and resistivity survey.	1:5 000 281 - 105 Pg. 36 A3
Fig. 7	Line SD 3, ground magnetics.	1:10 000 281 - 098 Pg. 38 A3
	Line SD 3, rotary drilling.	1:1 000 281 - 104 Pg. 41 A3

END OF CONTENTS

SEPARATELY HELD DATA

DRILLHOLE SAMPLES (held by MESA Core Library):

For up to date information on available drillhole samples, contact the Supervisor, SADME Core Library and quote the Exploration Licence and drillhole number/s you wish to query.

**REPORT ON RELINQUISHED PORTION
OF YARRAMBA - EXPLORATION LICENCE 1763**



Chris Anderson
District Manager - Western Region

Placer Exploration Limited
63 King William Street
Kent Town SA 5067

Ref:CGA:st/YAR00066

23 December 1993

INTRODUCTION

A partial relinquishment of the northern and eastern portions of EL 1763 (Fig. 1) was effected in December 1993 and reports for historical exploration to mid-1991 were placed on open-file. This report summarises exploration activity on the relinquished portion of EL 1763 for the period June 1991 to December 1993.

(SADME
Env. 3330)

EXPLORATION AREAS

During the report period, exploration programmes in EL 1763 have been managed by Placer Exploration, for the Olary Joint Venture partners MIM Exploration and Sedimentary Holdings. Work conducted by Placer has been directed towards exploring the "Bimba Formation" within the Proterozoic metasedimentary sequence, and has consisted predominantly of rotary drill testing of the target stratigraphic position inferred from aeromagnetic data.

Within the relinquished portion of EL 1763 work was conducted in two grid areas during this report period (Fig. 2):

Cartspring Dam:	Ground magnetics (6.5 kms) and one (1) diamond drillhole (TD 456 metres).
Security Dam:	Ground magnetics (2.5 kms) induced polarisation rotary drilling (4 holes, TD 244 metres).

No further work was warranted in either of these areas based on results to-date, although the "Bimba Formation" may not have been adequately tested in each case.

Technical data for Cartspring Dam and Security Dam are included in Appendices A and B respectively.

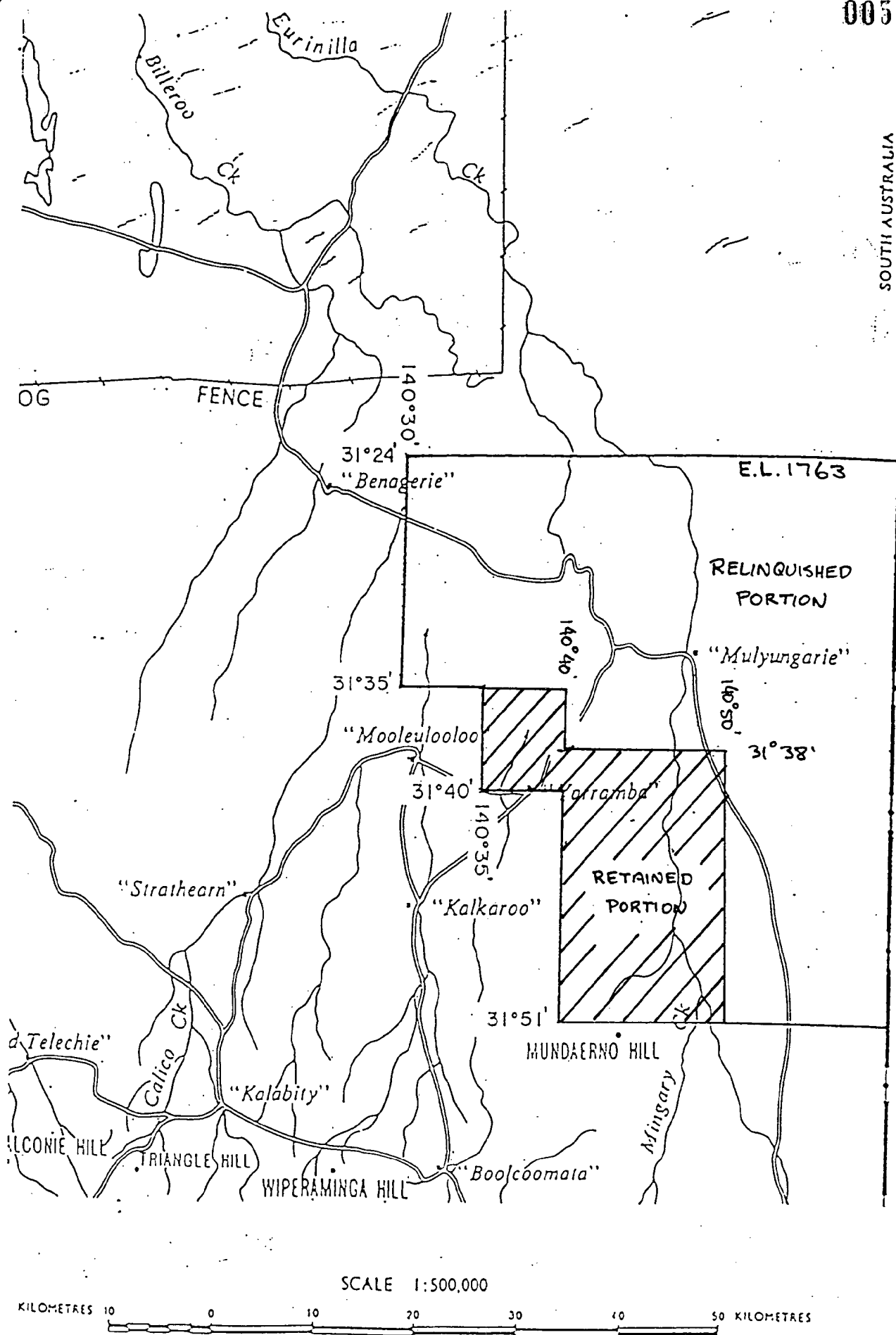
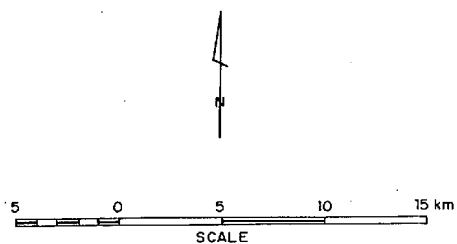
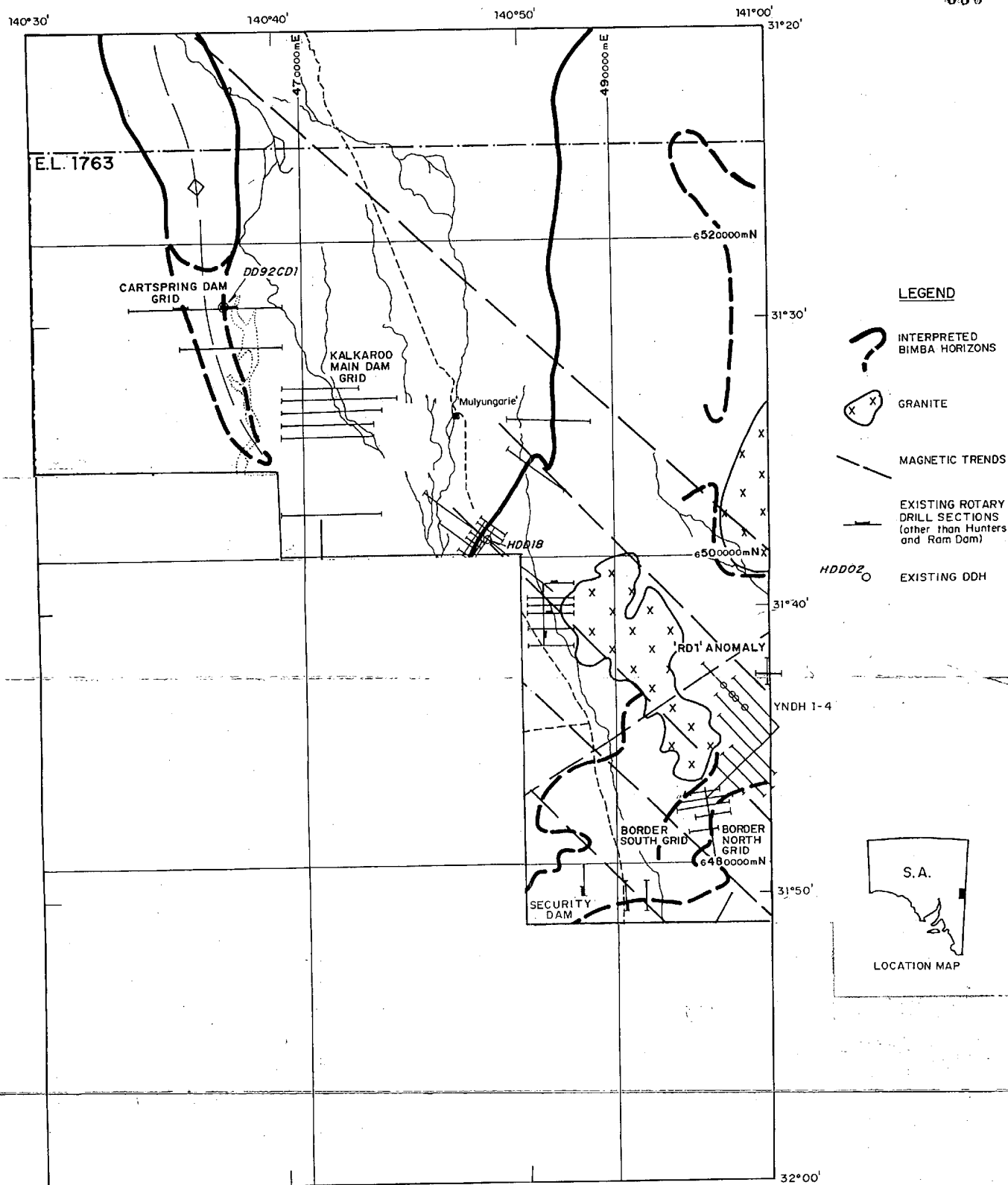


FIGURE 1

NOTE: There is no warranty that the boundary of this Exploration Licence is correct in relation to other features on the map. The boundary is to be ascertained by reference to the Australian Geodetic Datum.



D PLACER EXPLORATION LTD.

YARRAMBA EL 1763
(PARTIAL RELINQUISHMENT)

**LOCATION OF ESTABLISHED GRIDS
AND DRILL HOLES**

Author: C.G.A.

Drawn: W.C.A.

Scale: 1:250 000

Date: DECEMBER 1993

Plan No. 281-108A

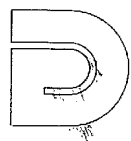
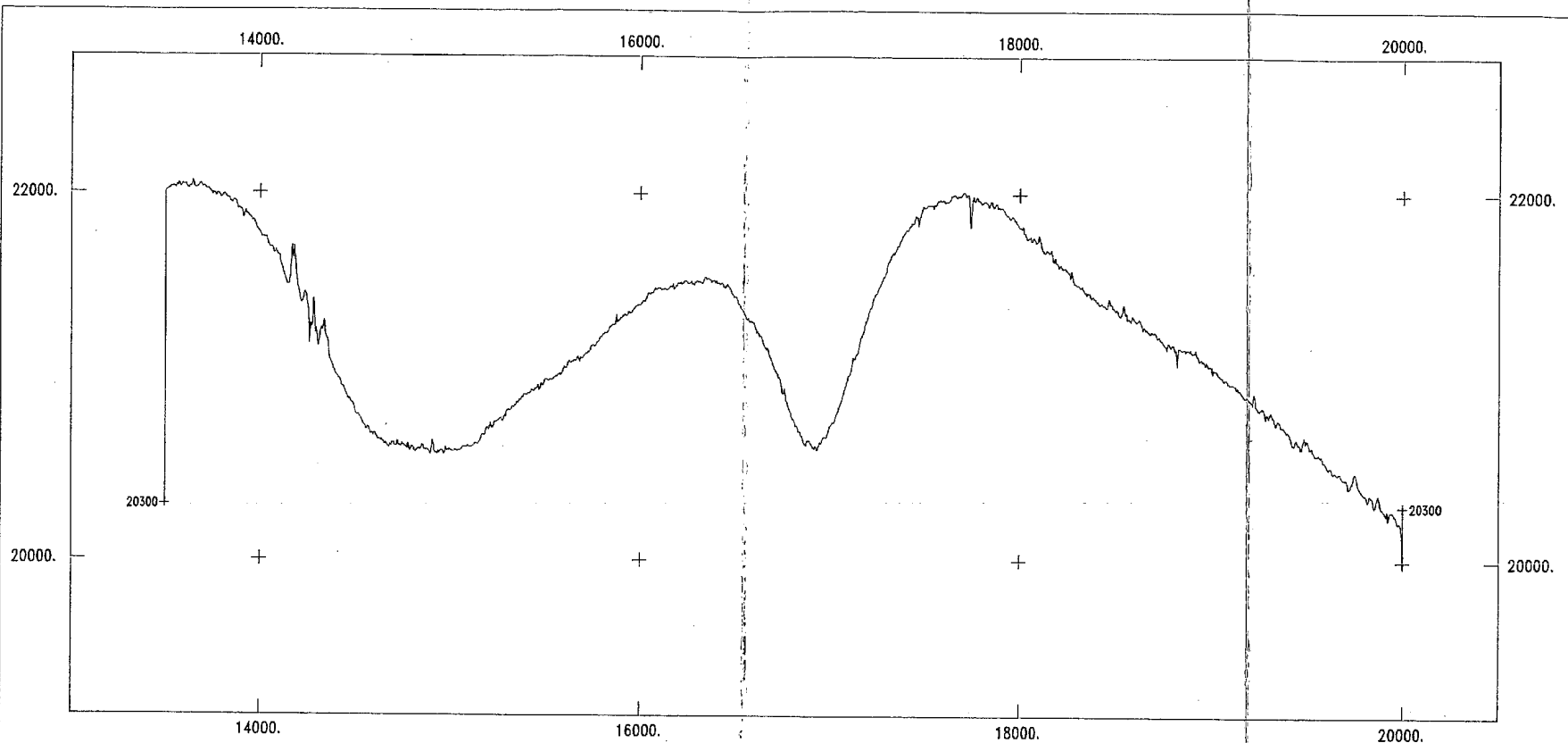
Figure 2

APPENDIX A

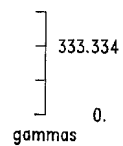
EXPLORATION DATA - CARTSPRING DAM

GROUND MAGNETICS (LINE 20 300W)

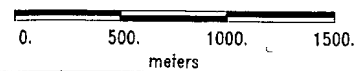
DIAMOND DRILLING (LINE 22 800N)



Z SCALE 1:30.



SCALE 1:25000



PLACER EXPLORATION LTD.
YARRAMBA E.L. 1763
GROUND MAGNETIC SURVEY

CARTSPRING DAM
LINE 20300N

SCALE 1:25000.

Z SCALE 1:30.
DRAWN BY: C.G.A.

Z BASE LEVEL : 56400.
DATE : 23/12/1993

The Cartsprings Dam area is located 19km north of Yarramba Homestead within Yarramba EL 1763 (Fig. 3). Previous ground magnetics (line 22 800N) had defined a broad, high amplitude magnetic anomaly. Another 6.5km line (20 300N) was surveyed at 5m spacing 2.5km to the south to further define the anomaly.

A drillhole was designed to test the anomaly on the original line, based on a model for the magnetic anomaly reflecting a broad antiform in the albitite-magnetite bearing sequence beneath the Bimba Formation.

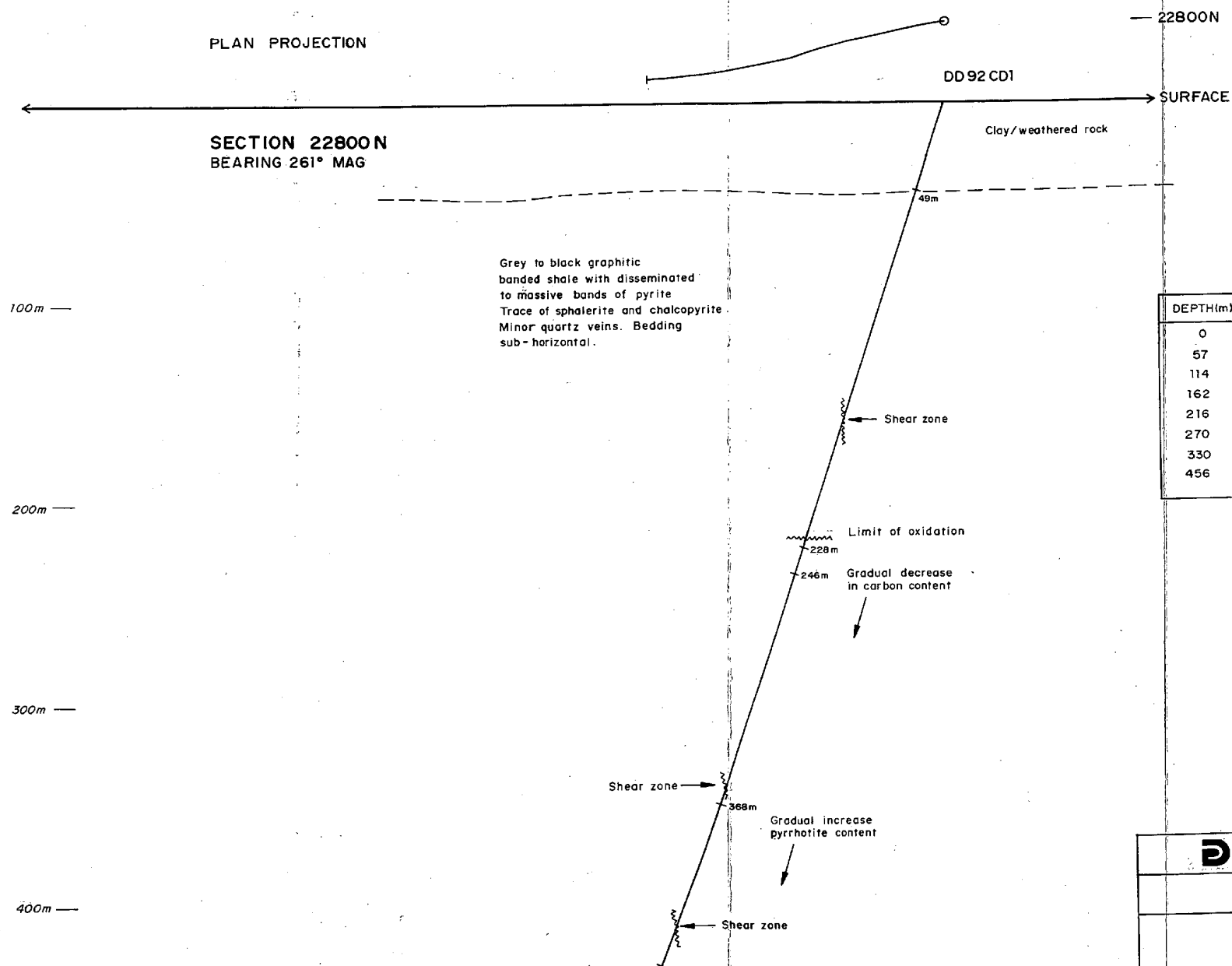
5.1 Diamond Drillhole DD92CD1

Diamond drillhole DD92CD1 was collared at 16 400E, 22 800N at 70° dip to 260° magnetic (Fig. 19). The hole was rotary precollared through clay and weathered rock to 49m, HQ core to 68.5 and NQ core to 456m. The hole intersected sub-horizontal graphitic shale with disseminated to massive bands of pyrite and traces of sphalerite and chalcopyrite. A 30cm band of pyrrhotite-rich albitite with a trace of chalcopyrite was intersected at the bottom of the hole.

The source of the magnetic anomaly was not intersected. The only magnetic material was the albitite band at the bottom of the hole with a magnetic susceptibility of 2.8×10^{-2} SI.

Selected sulfide-rich intervals were assayed. Anomalous base metals up to 16ppm Ag, 660ppm Cu, 340ppm Pb and 0.29% Zn were recorded from scattered intervals. Minor Au (0.12ppm) and Cu (650ppm) was reported from the albitite. Drill logs and assay results are included in Appendix V.

The magnetic anomaly at this locality is thought to be prospective for Cu-Au mineralisation. The depth of the anomaly however, is considered prohibitive.



SURVEY DATA

DEPTH(m)	AZIMUTH°	DIP°
0	260	70
57	258	71.5
114	258	71
162	256	72
216	256	72
270	259	71.5
330	261	70.8
456	263	70

D PLACER EXPLORATION LTD.

YARAMBA - E.L. 1763

DIAMOND DRILL HOLE
DD 92 CD1
SECTION 22800N

Author: W. HOSKINS

Drawn: W. ANDERSON

Date: OCTOBER 1992

Scale: 1:2000

Plan No. 281-109

FIGURE 10

DIAMOND DRILLHOLE DD92CD1:
LOGS, ASSAY RESULTS & PETROLOGICAL REPORT

DRILL DATA SHEET

DIAMOND DRILLHOLE: DD92CD1

PROJECT: CARTSPRING DAM
YARRAMBA EL 1763

DATE: JULY 1992

CO-ORDINATES: 22 800N 16 400E

ROTARY 0-49M, HQ 49-68.5, NQ 68.5-456M
49M OF 4" STEEL CASING LEFT IN HOLE

DOWNHOLE SURVEYS:

Depth (m)	Azimuth° (mag.)	Dip°
0	260	70
57	258	71.5
114	258	71
162	256	72
216	256	72
270	259	71.5
330	261	70.8
456	263	70

DRILL LOG AND SAMPLE LEDGER HOLE DD92CD1						ASSAY RESULTS (PPM)							
DEPTH m	SAMPLE NUMBER	DEPTH m	ROCK DESCRIPTION	MAC SUS x10 ³	Ag	Cu	Pb	Zn					
0	49		PRECOLLAR - CLAY AND WEATHERED ROCK										
49	50		Grey to black graphitic banded shale	0									
50	52		with disseminated to massive bands	0									
52	54		of pyrite with a trace of	5									
54	56		sphalerite and chalcopyrite. Grey	10									
56	58		muscovite along the edges of	10									
58	60		pyrite bands. Minor quartz	15									
60	62		veining. Some sections with very	10									
62	64	HQ.	fine white phenocrysts altered	10									
64	66	↑	to sericite. Bedding	10									
66	68	68.5	65° to core axis	10									
68	70	138176	68-68.16m SAMPLE INTERVAL	10	2	380	65	74					
70	72	NO		10									
72	74			10									
74	76			10									
76	78			10									
78	80			10									

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>							ASSAY RESULTS (PPM)							
DEPTH m	SAMPLE NUMBER	DEPTH m	ROCK DESCRIPTION			MAC SUS x10 ³	Ag	Cu	Pb	Zn				
80	82		AS ABOVE			10								
82	84					10								
84	86					10								
86	88					10								
88	90					10								
90	92					10								
92	94					10								
94	96					10								
96	98					15								
98	100					15								
100	102					15								
102	104					20								
104	106					20								
106	108	138177	107.64 - 107.72 m SAMPLE INTERVAL			50	41	125	70	130				
108	110					15								
110	112					10								
112	114		↓			25								

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>						ASSAY RESULTS (PPM)							
DEPTH m	SAMPLE NUMBER	DEPTH m	ROCK DESCRIPTION			MAC SUS x10 ³ ₃₂	Ag	Cu	Pb	Zn			
114	116		AS ABOVE			25							
116	118	138178	117.77 - 117.84			40	<1	150	70	165			
118	120	138179	118.8 - 118.91 SAMPLE INTERVAL			80	<1	170	45	140			
120	122	138180	121.73 - 121.87 "			35	<1	92	45	110			
122	124					25							
124	126	138181	125.5 - 125.56m "			110	1	145	45	290			
126	128	138182	125.9 - 125.99 "			30	1	135	60	125			
128	130	138183	126.9 - 126.99 "			35	16	240	105	150			
130	132	138184	127.2 - 127.29 "			20	2	270	80	190			
132	134	138185	128.6 - 128.75 "			10	<1	72	55	82			
134	136	138186	131.0 - 131.2 "			25	1	170	45	105			
136	138	138187	131.97 - 132.15 "			15	1	200	40	78			
138	140	138188	139.1 - 139.16 "			15	<1	180	30	340			
140	142					15							
142	144					15							
144	146	138189	145 - 145.15 "			65	<1	6	60	580			
146	148	138190	145.5 - 145.64 "			90	3	380	210	1040			

DRILL LOG AND SAMPLE LEDGER HOLE DD92CD1							ASSAY RESULTS (PPM)						
DEPTH m		SAMPLE NUMBER	DEPTH m	ROCK DESCRIPTION		MAC SUS x10 ³	Ag	Cu	Pb	Zn			
148	150			As ABOVE		20							
150	152	138191		150.1 - 150.48	SAMPLE INTERVAL	30	1	330	30	96			
152	154	138192		150.65 - 150.95	"	15	1	430	45	950			
154	156	138193		155.3 - 155.44	"	110	2	530	35	50			
156	158					10							
158	160	138194		158.65 - 158.8	"	10	<1	120	70	125			
160	162					15							
162	164			164.5 - 165.2	SHEAR ZONE	15							
164	166					25							
166	168					15							
168	170					20							
170	172	138195		171.5 - 171.65	SAMPLE INTERVAL	200	3	600	95	320			
172	174	138196		173.1 - 173.19	"	500	1	250	60	320			
174	176					130							
176	178					45							
178	180					20							
180	182	138197		181.3 - 181.4	"	5	<1	185	45	105			

016

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>						ASSAY RESULTS (PPM)							
DEPTH M	SAMPLE NUMBER	DEPTH M	ROCK DESCRIPTION			MAC SUS *10 ³	Ag	Cu	Pb	Zn			
182	184		As ABOVE			15							
184	186					20							
186	188					20							
188	190					40							
190	192					35							
192	194	138198	193-193.21 SAMPLE INTERVAL			150	<1	135	20	90			
194	196					20							
196	198					20							
198	200					35							
200	202	138199	200.3 - 200.4 "			10	<1	165	35	220			
202	204	138200	202.56 - 202.79 "			110	1	330	40	84			
204	206					110							
206	208	148251	207. to 207.17 "			50	1	190	105	165			
208	210	148252	208 to 208.24 "			40	<1	52	55	130			
210	212	148253	211.4 to 211.86 "			15	2	250	65	120			
212	214					140							
214	216		↓			45							017

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>						ASSAY RESULTS (PPM)							
DEPTH m	SAMPLE NUMBER	DEPTH m	ROCK DESCRIPTION			MAC SUS X10 ³ g	Ag	Cu	Pb	Zn			
216	218	148254	217.4 - 217.6	SAMPLE INTERVAL	AS ABOVE	160	41	72	25	66			
218	220	148255	219.3 - 219.41	"		50	1	230	45	74			
220	222	148256	222.7 - 223.01	"		85	<1	44	20	60			
222	224	148257	223.65 - 223.75	"		30	<1	160	35	135			
224	226	148258	224.8 - 225.16	"		55	1	270	35	76			
226	228		228	Limit of oxidation		55							
228	230	148259	228 - 228.26	"		25	3	370	80	175			
230	232					60							
232	234					20							
234	236					220							
236	238					60							
238	240	148260	238.6 - 238.73	"		30	2	310	55	150			
240	242	148261	239.97 - 240.13	"		10	1	66	40	100			
242	244	148262	243.66 - 243.81	"		20	2	410	55	240			
244	246					45							
246	248					35							
248	250	148263	249.37 - 249.46	"	↓	220	1	175	40	1860			

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>							ASSAY RESULTS (PPM)							
DEPTH M	SAMPLE NUMBER	DEPTH M	ROCK DESCRIPTION			MAC SUS X10 ³	Ag	Cu	Pb	Zn				
250	252	148264	251.7 - 251.77	SAMPLE INTERVAL	As ABOVE	120	3	330	55	2900				
252	254					50								
254	256	148265	255 - 255.18	"		15	<1	160	35	1550				
256	258	148266	256.66 - 256.79	"		10	<1	11	20	170				
258	260					40								
260	262	148267	261.83 - 262.03	"		265	<1	250	30	200				
262	264	148268	263.75 - 263.99	"		30	<1	310	30	175				
264	266					35								
266	268					65								
268	270	148269	269.33 - 269.4	"		90	2	480	55	250				
270	272					50								
272	274					82								
274	276					50								
276	278					15								
278	280	148270	278.93 - 279.5	"		15	2	72	60	50				
280	282					15								
282	284	148271	283.4 - 283.8	"	↓	40	<1	9	5	80				

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>						ASSAY RESULTS (PPM)							
DEPTH M	SAMPLE NUMBER	DEPTH M	ROCK DESCRIPTION			MAC SUS %10 ³ g	Ag	Cu	Pb	Zn			
284	286	148272	284.18 - 284.48	SAMPLE INTERVAL	AS ABOVE	10	<1	24	5	56			
286	288					40							
288	290	148273	288.7 - 289.7	"		40	<1	500	35	150			
290	292	148274	291.17 - 291.32	"		10	<1	84	20	145			
292	294				GRADUAL INCREASE	10							
294	296	148275	294.87 - 295.97	"	IN SIZE OF SMALL WHITE PHENOCRYSTS.	25	<1	115	20	72			
296	298					15							
298	300					20							
300	302					80							
302	304					55							
304	306	148276	304.35 - 304.42	"		40	<1	110	30	48			
306	308					150							
308	310					20							
310	312					110							
312	314					250							
314	316					250							
316	318	148277	316.07 - 316.18	"	✓	350	<1	165	30	94			020

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>						ASSAY RESULTS (PPM)							
DEPTH m	SAMPLE NUMBER	DEPTH m	ROCK DESCRIPTION			MAC SUG *100%	Ag	Cu	Pb	Zn			
318	320		AS ABOVE			300							
320	322					90							
322	324					115							
324	326					65							
326	328					115							
328	330					150							
330	332					200							
332	334	148278	333.63 - 334.01 SAMPLE INTERVAL			350	<1	130	25	70			
334	336					50							
336	338					55							
338	340					210							
340	342					25							
342	344	148279	342.12 - 342.22 "			15	<1	7	10	28			
344	346	148280	344.69 - 344.84 "			20	2	480	340	2850			
346	348	148281	347.8 - 347.9 "	PET SAMPLE		45	<1	410	130	1000			
348	350	148282	348.56 - 348.91 "	143798 AT 350.36.		30	<1	260	35	80			021
350	352	148283	350.36 - 350.46 "			125	<1	300	145	1260			

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>							ASSAY RESULTS (PAM)						
DEPTH M	SAMPLE NUMBER	DEPTH M	ROCK DESCRIPTION			MAC SUG %10 ³ g	Ag	Cu	Pb	Zn			
352	354	148284	350.63 - 350.72	SAMPLE INTERVAL	AS ABOVE	245	<1	17	30	52			
354	356	148285	351.13 - 351.2	"		325	<1	200	55	340			
356	358	148286	352.93 - 353.04	"		30	1	550	55	160			
358	360	148287	354.33 - 354.43	"		80	<1	70	10	100			
360	362	148288	355.26 - 355.36	"	SNEAR ZONE 361.5 - 364	40	<1	660	40	220			
362	364	148289	356.77 - 356.84	"		25	<1	105	30	105			
364	366	148290	358.66 - 358.77	"		25	<1	22	10	76			
366	368	148291	359.77 - 359.92	"	INCREASE IN	25	<1	220	35	195			
368	370	148292	368.35 - 368.53	"	PYRRHOTITE CONTENT	225	<1	46	10	40			
370	372	148293	370.64 - 370.80	"		140	<1	15	15	55			
372	374	148294	373.55 - 373.73	"		90	<1	6	10	125			
374	376					235				"			
376	378	148295	377.13 - 377.43	"		100	<1	60	15	98			
378	380					70							
380	382					40							
382	384					60							
384	386					45							

DRILL LOG AND SAMPLE LEDGER HOLE <u>DD92CD1</u>						ASSAY RESULTS (PPM)						
DEPTH m	SAMPLE NUMBER	DEPTH m	ROCK DESCRIPTION	MAC SUG %10 ³ g	Ag	Cu	Pb	Zn				
386	388		AS ABOVE	10								
388	390			310								
390	392			45								
392	394	148296	392.6 - 392.89 ^{SAMPLE} INTERVAL	100	<1	200	20	280				
394	396			225								
396	398			700								
398	400	148297	398.14 - 398.31 "	120	<1	260	25	125				
400	402	148298	400.26 - 400.64 "	1125	<1	260	15	100				
402	404	148299	401.8 - 402.1 "	45	<1	540	25	300				
404	406	148300	404 - 404.11 "	140	<1	280	20	175				
406	408	148301	404.94 - 405.06 "	20	<1	350	15	130				
408	410	148302	408.6 - 408.76 "	575	<1	500	25	185				
410	412			40								
412	414			360								
414	416			150								
416	418			200								
418	420			350								

Amdel Laboratories Limited
Brown Street, Thebarton, 5031
Telephone: (08) 416 5300 Facsimile: (08) 234 0321

Mr Bill Hoskins
Placer Exploration Limited
63 King William Street
KENT TOWN
SA 5067

D742001

FINAL ANALYSIS REPORT

Your Order No: 6827

Our Job Number : 2AD2506

Samples received : 01-SEP-1992

Results reported : 09-SEP-1992

No. of samples : 82

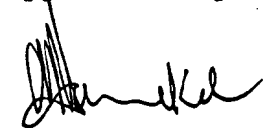
Report comprises a cover sheet and pages 1 to 7

This report relates specifically to the samples tested in so far as that the samples as supplied are truly representative of the sample source.

Note:

If you have any enquiries please contact Miss Anne Reed quoting the above job number.

Approved Signatory:



for John Waters
Laboratory Manager - Adelaide

MM Mr Bill Hoskins NSW

Report Codes:

N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample.

Distribution Codes:

CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media

ANALYTICAL REPORT

Job: 2AD2506
O/N: 6827

Sample	Ag	As	Bi	Cd	Co	Cr	Cu
138176	2	25	5	<2	155	170	380
138177	<1	9	<5	<2	34	18	125
138178	<1	9	10	<2	40	19	150
138179	<1	<3	<5	<2	44	13	170
138180	<1	9	5	<2	30	17	92
138181	1	9	10	<2	34	17	145
138182	1	40	10	<2	30	16	135
138183	16	12	60	<2	62	10	240
138184	2	24	10	<2	74	9	270
138185	<1	5	5	<2	28	28	72
138186	1	10	5	<2	46	110	170
138187	1	32	5	<2	66	82	200
138188	<1	8	5	<2	44	13	180
138189	<1	6	<5	<2	6	16	6
138190	3	890	5	<2	210	5	380
138191	1	15	<5	<2	105	2	330
138192	1	13	<5	<2	155	105	430
138193	2	12	<5	<2	150	<2	530
138194	<1	8	<5	<2	40	10	120
138195	3	14	10	<2	190	<2	600
138196	1	6	5	<2	110	4	250
138197	<1	14	<5	<2	64	6	185
138198	<1	5	<5	<2	30	58	135
138199	<1	4	5	<2	42	60	165
138200	1	17	<5	<2	105	240	330
148251	1	22	5	<2	56	42	190
148252	<1	18	5	<2	25	88	52
148253	2	14	5	<2	70	58	250
148254	<1	7	<5	<2	22	40	72
148255	1	1380	5	<2	145	8	230
148256	<1	8	<5	<2	14	26	44
148257	<1	26	5	<2	40	10	160
148258	1	38	5	<2	74	165	270
148259	3	22	10	<2	92	60	370
148260	2	22	5	<2	70	<2	310
148261	1	38	10	<2	32	10	66
148262	2	30	10	<2	100	<2	410
148263	1	19	5	14	52	11	175
148264	3	5	5	25	68	12	330
148265	<1	16	5	15	40	145	160
148266	<1	<3	<5	<2	5	19	11
148267	<1	<3	<5	<2	74	6	250
148268	<1	4	5	<2	62	62	310
148269	2	17	5	<2	92	7	480
148270	2	8	<5	<2	42	35	72
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DL	1	3	5	2	2	2	2
Scheme	IC1E	IC1E	IC1E	IC1E	IC1E	IC1E	IC1E

ANALYTICAL REPORT

Job: 2AD2506
O/N: 6827

Sample	Ag	As	Bi	Cd	Co	Cr	Cu
148271	<1	<3	<5	<2	5	19	9
148272	<1	<3	<5	<2	7	30	24
148273	<1	54	<5	<2	120	28	500
148274	<1	7	<5	<2	18	98	84
148275	<1	4	<5	<2	36	30	115
148276	<1	48	<5	<2	42	9	110
148277	<1	15	<5	<2	48	15	165
148278	<1	14	<5	<2	50	135	130
148279	<1	15	<5	<2	6	11	7
148280 Pb/Pa	2	38	5	<2	98	7	480
148281	<1	4	5	<2	55	12	410
148282	<1	58	<5	<2	50	42	260
148283 Zn	<1	20	<5	<2	56	16	300
148284	<1	22	<5	<2	18	16	17
148285	<1	72	<5	<2	52	17	200
148286	1	22	<5	<2	115	8	550
148287	<1	<3	<5	<2	16	15	70
148288	<1	4	<5	<2	135	8	660
148289	<1	4	<5	<2	54	17	105
148290	<1	<3	<5	<2	5	22	22
148291	<1	5	<5	<2	105	11	220
148292	<1	<3	<5	<2	17	16	46
148293	<1	<3	<5	<2	7	17	15
148294	<1	<3	<5	<2	8	24	6
148295	<1	5	<5	<2	24	72	60
148296	<1	52	<5	<2	50	88	200
148297	<1	<3	<5	<2	32	26	260
148298	<1	<3	<5	<2	58	52	260
148299	<1	240	10	<2	145	100	540
148300	<1	8	5	<2	56	14	280
148301	<1	<3	<5	<2	66	13	350
148302	<1	7	<5	<2	110	12	500
148303	<1	52	<5	<2	46	135	190
148304	<1	<3	<5	<2	10	24	52
148305	<1	195	5	<2	84	8	310
148306	<1	11	<5	<2	13	92	42
148307	<1	4	<5	<2	120	88	650

Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DL	1	3	5	2	2	2	2
Scheme	IC1E	IC1E	IC1E	IC1E	IC1E	IC1E	IC1E

ANALYTICAL REPORT

Job: 2AD2506

O/N: 6827

Sample	Fe	Mn	Mo	Ni	Pb	P	V
138176	19.0	930	3	92	65	100	19
138177	6.75	1080	<2	96	50	1160	30
138178	8.90	670	4	98	70	1260	24
138179	8.55	650	<2	68	45	410	18
138180	6.50	930	5	85	45	1150	32
138181	7.60	900	5	66	45	1500	30
138182	7.20	770	8	58	60	1340	28
138183	10.3	710	3	165	105	870	32
138184	13.2	920	6	170	80	1000	28
138185	7.40	540	<2	42	55	330	26
138186	7.20	750	3	35	45	220	22
138187	9.15	490	<2	48	40	280	22
138188	10.4	1600	<2	66	30	390	28
138189	5.50	1820	5	20	60	1140	28
138190	18.0	2300	13	300	210	2850	28
138191	13.6	490	<2	110	30	115	15
138192	20.9	1780	<2	210	45	250	19
138193	21.0	300	<2	185	35	70	18
138194	8.10	620	<2	45	70	550	19
138195	26.1	1020	<2	250	95	65	17
138196	18.3	1600	<2	135	60	230	20
138197	13.0	2000	<2	140	45	320	18
138198	6.70	990	<2	30	20	210	22
138199	8.20	780	2	68	35	540	24
138200	13.8	350	3	90	40	105	17
148251	11.3	600	6	74	105	580	30
148252	11.0	960	3	14	55	400	28
148253	12.8	430	<2	105	65	210	18
148254	5.45	570	<2	32	25	460	24
148255	11.1	450	4	85	45	310	20
148256	3.82	480	4	22	20	470	22
148257	8.20	520	2	60	35	490	19
148258	13.4	470	3	65	35	210	19
148259	16.5	740	<2	135	80	230	28
148260	13.4	350	<2	64	55	180	13
148261	7.65	470	<2	34	40	600	22
148262	19.2	640	3	195	55	85	20
148263	11.8	680	2	92	40	320	25
148264	15.4	1160	3	170	55	570	32
148265	10.0	810	4	65	35	1000	34
148266	2.60	550	3	24	20	520	32
148267	12.4	290	<2	105	30	410	20
148268	10.4	320	2	92	30	390	30
148269	16.9	700	<2	180	55	610	24
148270	11.4	750	<2	58	60	280	36

Units	%	ppm	ppm	ppm	ppm	ppm	ppm
DL	0.01	5	2	2	5	5	2
Scheme	IC1E	IC1E	IC1E	IC1E	IC1E	IC1E	IC1E

ANALYTICAL REPORT

Job: 2AD2506
O/N: 6827

Sample	Fe	Mn	Mo	Ni	Pb	P	V
148271	4.08	750	<2	9	5	360	25
148272	4.64	500	<2	14	5	400	26
148273	20.3	520	<2	190	35	230	24
148274	5.10	600	5	42	20	750	32
148275	7.00	490	4	70	20	580	26
148276	9.40	860	<2	56	30	310	22
148277	6.90	700	3	84	30	1400	35
148278	8.25	790	2	34	25	200	17
148279	3.06	350	<2	6	10	230	22
148280	12.4	990	<2	195	340	195	20
148281	7.30	710	3	155	130	640	26
148282	7.75	1580	3	82	35	450	34
148283	7.00	650	6	190	145	1160	40
148284	5.85	750	7	34	30	1460	38
148285	6.40	640	4	105	55	1220	32
148286	12.9	550	<2	165	55	250	17
148287	4.28	510	<2	24	10	340	13
148288	16.1	670	<2	230	40	490	19
148289	9.70	720	5	94	30	1150	32
148290	4.28	790	3	12	10	480	25
148291	15.1	680	<2	195	35	210	19
148292	4.02	600	6	32	10	510	15
148293	2.88	630	<2	9	15	510	15
148294	5.70	1200	<2	14	10	240	17
148295	4.42	690	<2	34	15	860	18
148296	7.50	510	5	115	20	800	30
148297	7.10	790	6	62	25	1400	32
148298	9.95	530	<2	110	15	185	19
148299	17.8	730	3	220	25	430	28
148300	9.10	750	<2	100	20	380	18
148301	9.70	820	<2	105	15	520	17
148302	14.4	1120	<2	115	25	720	22
148303	7.25	990	2	48	75	220	18
148304	4.88	790	4	12	15	480	24
148305	9.65	790	13	82	50	440	30
148306	5.45	1020	6	22	130	290	45
148307	16.0	1100	<2	100	10	120	22
Units	%	ppm	ppm	ppm	ppm	ppm	ppm
DL	0.01	5	2	2	5	5	2
Scheme	IC1E	IC1E	IC1E	IC1E	IC1E	IC1E	IC1E

ANALYTICAL REPORT

Job: 2AD2506
O/N: 6827

Sample	Zn
138176	74
138177	130
138178	165
138179	140
138180	110
138181	290
138182	125
138183	150
138184	190
138185	82
138186	105
138187	78
138188	340
138189	580
138190	1040
138191	96
138192	950
138193	50
138194	125
138195	320 <i>Chu</i>
138196	320
138197	105
138198	90
138199	220
138200	84
148251	165
148252	130
148253	120
148254	66
148255	74
148256	60
148257	135
148258	76
148259	175
148260	150
148261	100
148262	240
148263	1860
148264	2900
148265	1550
148266	170
148267	200
148268	175
148269	250
148270	50
Units	ppm
DL	2
Scheme	IC1E

ANALYTICAL REPORT

Job: 2AD2506
O/N: 6827

Sample	Zn
148271	80
148272	56
148273	150
148274	145
148275	72
148276	48
148277	94
148278	70
148279	28
148280	2850
148281	1000
148282	80
148283	1260
148284	52
148285	340
148286	160
148287	100
148288	220
148289	105
148290	76
148291	195
148292	40
148293	55
148294	125
148295	98
148296	280
148297	125
148298	100
148299	300
148300	175
148301	130
148302	185
148303	520
148304	160
148305	320
148306	195
148307	175

Units	ppm
DL	2
Scheme	IC1E

ANALYTICAL REPORT

Job: 2AD2506
O/N: 6827

Sample	Au Avg	Au Au Rp1	Au SS1	Ba
148307	0.12	0.10	0.14	-- 85
Units	ppm	ppm	ppm	ppm
DL	0.01	0.01	0.01	0.01 10
Scheme	FA1	FA1	FA1	FA1 XRF1
138190	<0.01			
148255	0.05			
148299	0.03			
148305	0.03			
	ppm			
	FA1			

143798

DD92 CD1, 350.36m

Laminated 'black shale', with very small white elongate porphyroblasts altered to sericite, also crystals of sphene/rutile, all oriented along a cleavage at right angles to the laminations. Wide vein, conformable to the layering, with muscovite margins and a core of quartz pyrite, rarer chlorite, sphalerite, trace chalcopyrite.

The host rock in this sample is a strongly laminated carbonaceous shale with a fine scale layering on a scale of 0.2 to 2mm. Alternate layers are relatively rich in carbonaceous material or in sericite, with a poorly defined cleavage oriented almost at right angles to the layering. Accessory very small metacrysts of chlorite occur along the layering.

Small lenses 0.1mm wide to 0.5mm long are commonly aligned along the cleavage, scattered at irregular intervals to form about 7% of the rock. These are the white crystals referred to in your covering note; they consist of compact, decussate, extremely fine sericite, apparently after microporphyroblasts (but of indeterminate previous identity). Small elongate lozenge shaped crystals/prisms (2-3%) have a similar size and distribution, and appear to be titaniferous (?altered sphene or rutile).

A vein about 15mm wide, has margins rich in muscovite which is commonly oriented, at right angles to the vein i.e. parallel to the cross-cutting cleavage. A core within this vein consists of granular quartz mosaic, incorporating irregularly granular, quite coarse pyrite (\pm rarer marcasite and foliae of pyrite); with very minor very irregular grains of sphalerite and trace chalcopyrite.

APPENDIX B

EXPLORATION DATA - SECURITY DAM

INDUCED POLARISATION SURVEY - LINE SD1

GROUND MAGNETICS - LINE SD3

ROTARY DRILLING - LINE SD3

INDUCED POLARISATION SURVEY - LINE SD1

SEARCH EXPLORATION SERVICES OF ADELAIDE WERE CONTRACTED FOR THE
IP SURVEY. A ZONGE GGT-10 TRANSMITTER AND ZONGE GDP 16 RECEIVER
WERE USED FOR THE SURVEY

LINE SD1: ON-1000N

TX SET UP AT 500N

100M DIPOLES - 7 ELECTRODE SPREAD TO N = 6

CHARGEABILITY ANOMALY APPEARS AT 200N TO 250N

036

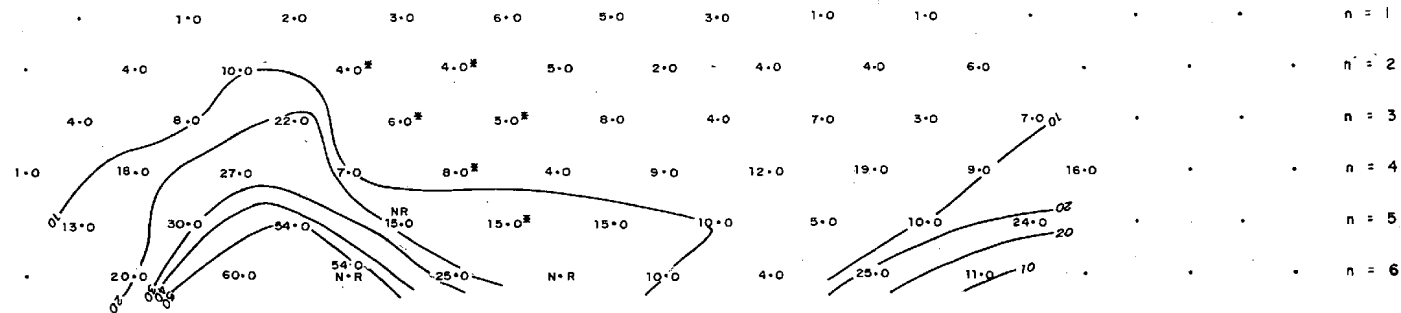
Culture and
TopographyApparent Resistivity
(ohm-m.)

Chargeability (355-1500 mS)

ON 100N 200N 300N 400N 500N 600N 700N 800N 900N 1000N

.	.	.	2.7	3.3	3.2	3.7	3.4	4.7	4.0	3.1	.	.	.	n = 1
.	.	.	3.8	4.4	4.1	4.2	4.0	4.3	4.8	3.4	3.6	.	.	n = 2
.	.	.	4.8	5.6	5.9	5.6	4.7	5.1	5.8	5.2	4.6	4.8	.	n = 3
.	.	.	6.4	6.4	6.8	7.9	5.8	5.5	7.2	6.1	6.9	5.9	5.7	n = 4
.	.	.	7.6	7.3	8.3	7.7	6.7	7.6	7.2	7.8	8.5	6.9	.	n = 5
.	.	.	9.2	9.1	7.8	8.6	N.R	7.6	9.1	9.7	9.7	.	.	n = 6

ON 100N 200N 300N 400N 500N 600N 700N 800N 900N 1000N



DIPOLE - DIPOLE I.P. SURVEY

Contractor : Search Expl. S.
 I.P. Unit Tx : Zonge GGT-10
 Rx : Zonge GDP-16
 Freq. or Int. Period : 0.125 Hz 2 sec
 Dipole size : 100m
 Scale :

PROPERTY :
 PROSPECT : Security Dam
 LINE N° : SD1
 SET-UP N° :
 DATE : 17-18/5/91

D PLACER EXPLORATION LTD

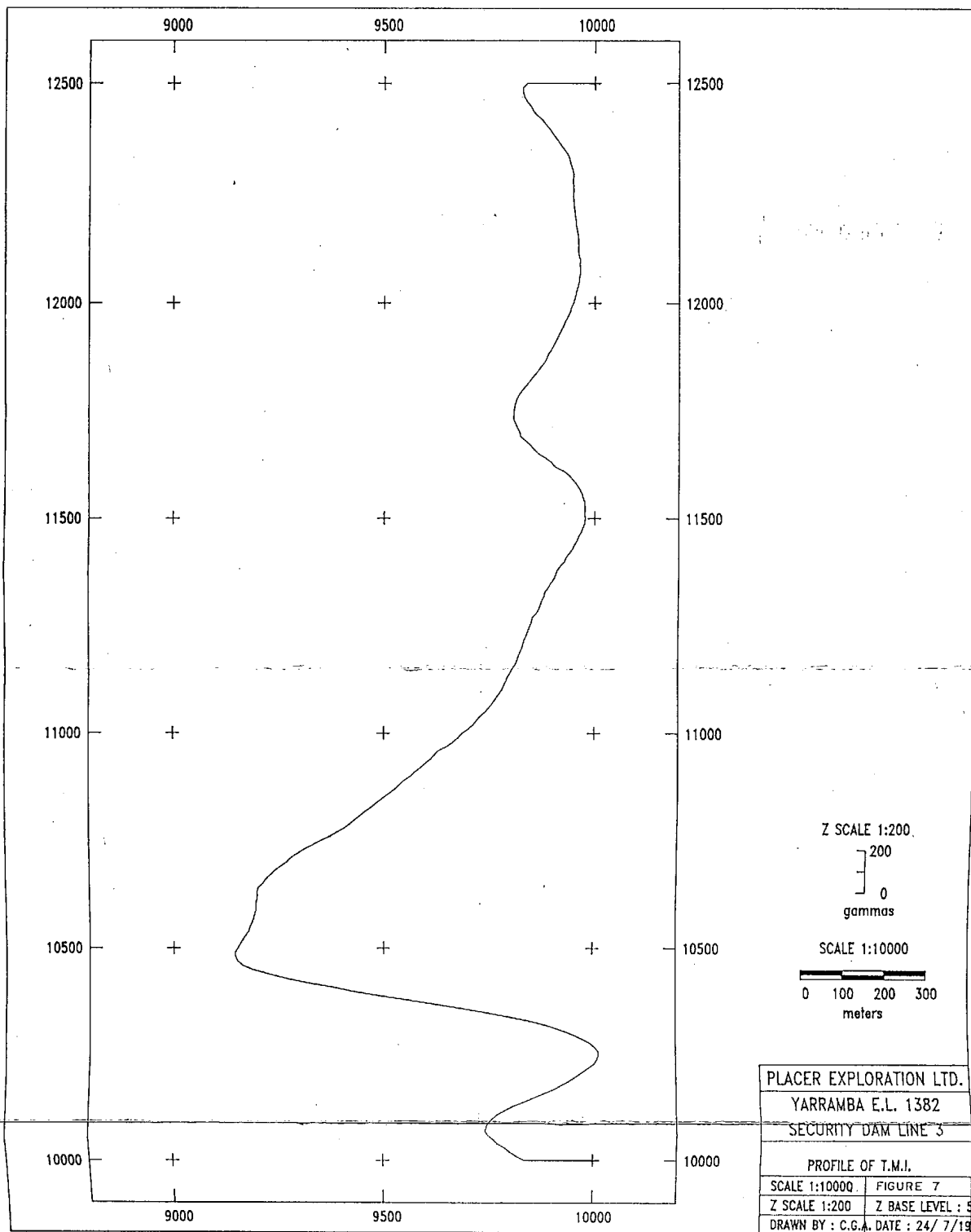
YARRAMBA - E.L. 1382

SECURITY DAM LINE SD1
 I.P. & RESISTIVITY SURVEY

Scale 1:5000
 Author N.C.
 Date DECEMBER 1991
 Drawn by P.W.K./W.C.A.

Figure N° 15
 Plan No.
 281-105

GROUND MAGNETICS - LINE SD3



ROTARY DRILLING - LINE SD3

- Holes HD273 to HD276
- Total meterage - 244m (4 holes)
- Average depth - 61m
- Bedrock lithology - quartz - albite-rock (probable Upper Albite)
- No significant results

10200N

10300N

10400N

10500N

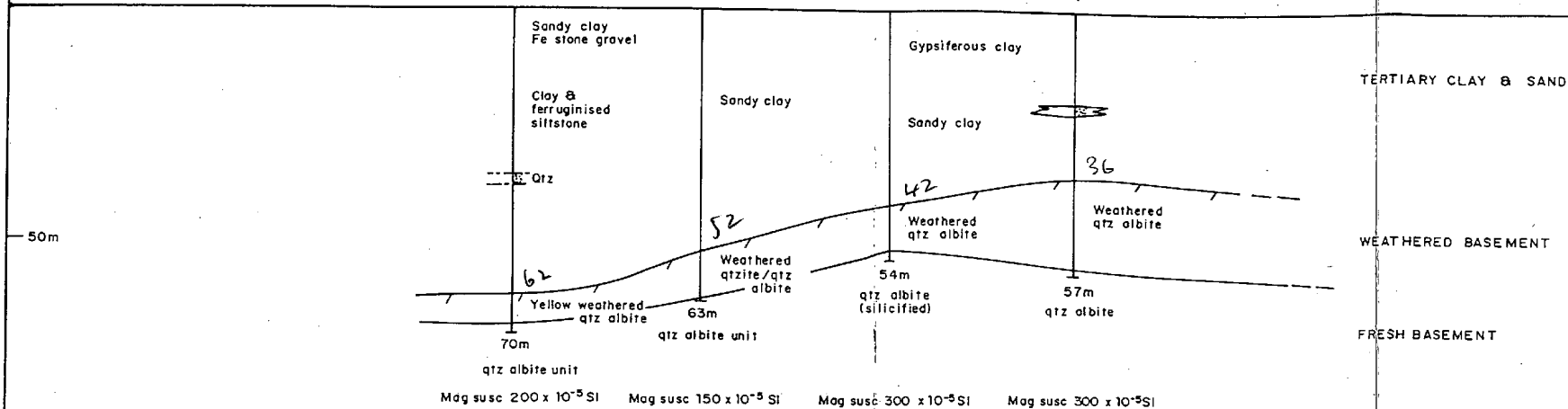
041

HD276

HD275

HD274

HD273



	Bottom 66-68m		Bottom 60-62m		Bottom 50-52m		Bottom 54-56m	
Cu	5	4	20	17	52	22	24	24
Pb	6	5	8	5	8	4	10	10
Zn	7	4	7	5	16	11	13	15
Fe	2.85%	2.65%	7.25%	7.45%	11.6%	11.1%	13.2%	13.1%
Mn	24	22	28	26	26	20	38	35
Ag	-	-	-	-	-	-	-	-
Mo	5	5	7	6	6	5	6	4
Au	-	0.01	0.02	6	0.01	0.02	-	0.02

PLACER EXPLORATION LTD.

YARRAMBA - E.L. 1382

SECURITY DAM LINE SD3 ROTARY DRILLING CROSS SECTION

Author: N.C.	Drawn: W.C.A.
Scale: 1:1000	Date: JULY 1991
Plan No. 281-104	FIGURE

17

PLACER EXPLORATION LIMITED - DRILL LOG

HOLE No. HD 273

042

PAGE 1 OF 1

PROJECT: YARRAMBA JV.

DATE STARTED: 30/6/91

TYPE OF DRILL: RAB

AREA: CURUAMONA

SD3

HOLE SIZE:

LOCATION: SECURITY DAM

COORDINATES: 10400 N

CONTRACTOR: THOMPSON

STARTED: 12:15 pm

ELEVATION: VERTICAL

DRILLER: GRIZZ

COMPLETED: 2:00 pm

DEPTH: 57 m

LOGGED BY: N. CAMPBELL

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS (ppm)					
				Cu	Pb	Zn	Fe	Mn	Ag
0	Brown gypsiferous clay + sand.								
↓	Fertile fine gravel							Mo	Au
4									
4	Green clay + sand, gypsiferous								
↓	Fertile fine gravel								
8									
8	Brown sandy clay + green clay.								
↓	10-15m white silty clay + green clay + sand								
22	Fine qtz sand + fertile 20-22m								
22	Light grey + khaki yellow gully clay								
↓	grading to grey + red clay from 30m								
34									
34	Light grey clay + red brown sandy weathered siltstone								
↓									
36									
36	Light grey sandstone, white + cream								
↓	silicified siltstone (almost chocolate) lightly ferruginised.								
38									
38	Cream + yellow silicified siltstone								
↓	Red brown ferruginised shale (banded)								
44	42-44m slightly brecciated? silicified red brown to yellow brown siltstone heavily ferruginised								
44	Red brown + yellow brown ferruginised siltstone								
↓	broken qtz								
50	46-50m yellow + white siltstone + clay								
50	Non Magnetic								
50	Yellow brown + white weathered igneous? with black + grey fine grained semi-crystalline mineral throughout	136036		24	10	15	13.1%	35	<1
↓	clips	54-56m						Mo	Au
56	broken qtz							4	0.02
56	Weakly magnetic (SOSC 70 x 10 ⁻⁵ SIU)								
56	Yellow brown + light grey banded f.g. qtz igneous rock containing yellow glass qtz + very fine yellow siltstone	136037		24	10	13	13.2%	38	<1
↓	black mineral in basalt + clay cemented.							Mo	Au
57	very fine grained, white, brittle, highly red brown, magnetic							6	20.01
57	Weakly magnetic (SOSC 300 x 10 ⁻⁵ SIU)								

57
EOM
CSR/0035

TYPE OF DRILL: R.A.B.

HOLE SIZE:043.....

CONTRACTOR: THOMPSON

DRILLER: GRIZZ

LOGGED BY: N. CAMPBELL

CSR/0035

PROJECT: YARRAMBA J.V.

DATE STARTED: 30/6/91

TYPE OF DRILL: RAB (RICA)

AREA:.....CURNAMONA

SD3

HOLE SIZE: 044

LOCATION: SECURITY DAM

COORDINATES: 10320^N

CONTRACTOR: THOMPSON

STARTED: 3:30 pm

ELEVATION: VERTICAL

DRILLER: GRIZZ

COMPLETED: 4:15 pm

DEPTH: 63 m

LOGGED BY: N. CAMPBELL

[illegible]

PLACER EXPLORATION LIMITED - DRILL LOG

HOLE No. HD 276

PAGE 1 OF 1

PROJECT: YARRAMBA JV. DATE STARTED: 30/6/91
 AREA: CORNAMONA SD 3
 LOCATION: SECURITY DAM COORDINATES: 10 280 N
 STARTED: 4:25 pm ELEVATION: VERTICAL
 COMPLETED: 5:45 pm DEPTH: 7.0 m
 TYPE OF DRILL: RAB (Rig 4)
 HOLE SIZE: 045
 CONTRACTOR: THOMPSON
 DRILLER: GRIZZ
 LOGGED BY: N. CAMPBELL

Metres	DESCRIPTION	SAMPLE No.	Assay Length	ASSAYS (ppm)					
				Cu	Pb	Zn	Fe	Mn	Ag
0	Brown sandy clay								
↓	Cypselurus 14m								
20	Festuca gravel							Mo	Au
20	Yellow sandy clay & Festuca (10 m) gravel								
↓	6.24m								
38	Grey + yellow grey quartz clay								
↓	White sand sandy clay & hematite + hematite gravel								
38	Atx band & hematite sand 36-38m								
38	Red + pink clay								
↓	Pale brown clay 38m → 56m								
62	Light clay 56m								
62	grey clay								
62	Dark blue speckled clay								
↓	breccia atx (in atx) 62-64m								
62	yellow sandstone	136042 (66-68m)		4	5	4	2.65%	22	21
68								Mo	Au
68								5	0.01
70	Fresh pale yellow brown speckled fine grained igneous fragments - contains yellow quartz + fine quartz yellow dolomite gravel	136043		5	6	7	2.85%	24	21
70	fine grained black fine grained mineral - glauconite							Mo	Au
70	Weakly magnetic 200 x 10 ⁻⁵							5	40.01
70	Black mineral (black/dark brown)								
70	moderate hard & brittle, breaks red/brown								
70	+ fragments weakly magnetic probably ilmenite hematite weathered from magnetite								
70	trace very fine garnet + hornblende								

Albite unit