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No. 5860

EL 1253

BUTE

**PROGRESS AND FINAL REPORTS TO LICENCE
EXPIRY/SURRENDER FOR THE PERIOD
24/9/1984 TO 23/6/1985**

Submitted by
CRA Exploration Pty Ltd
1985

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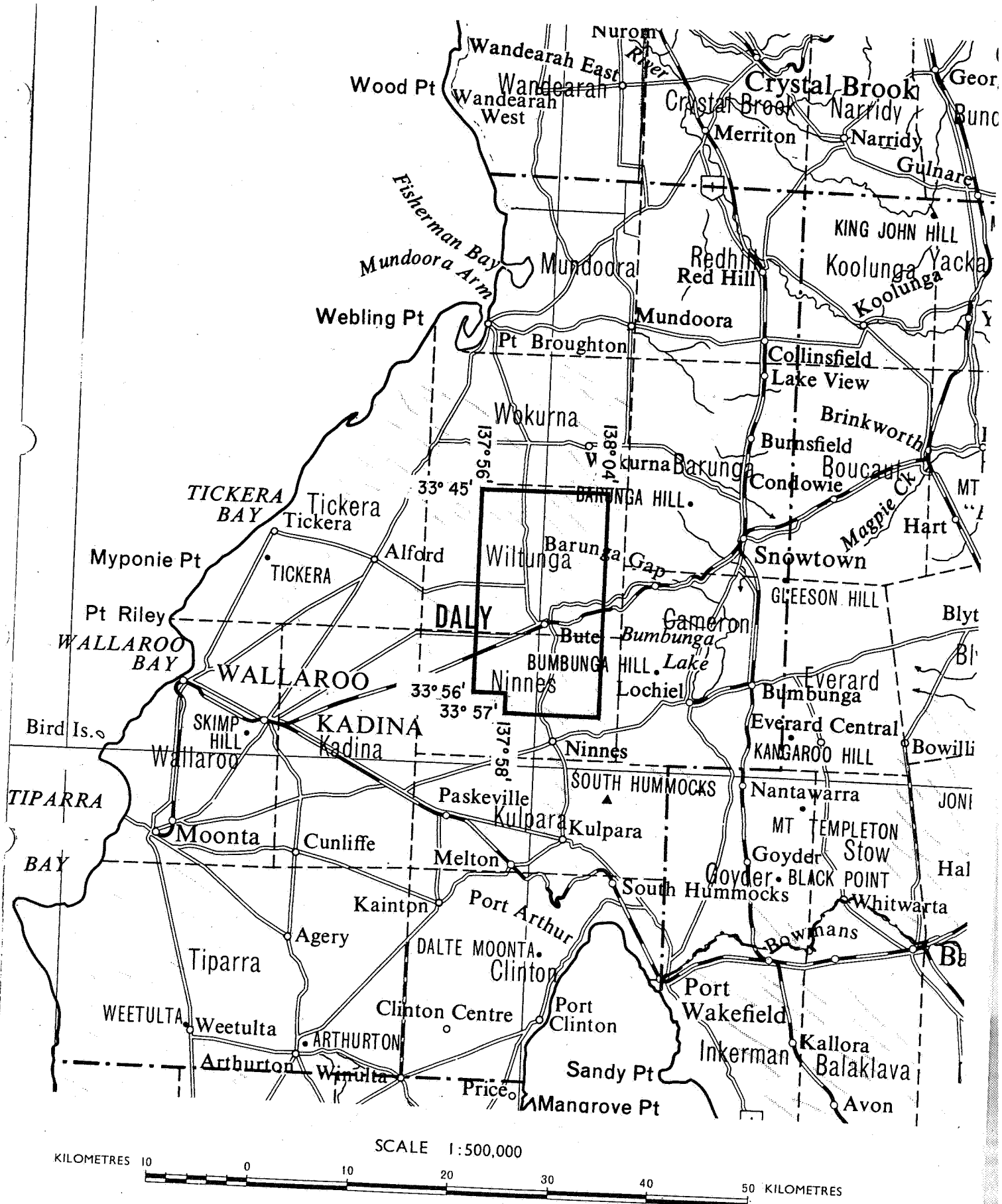
Enquiries: Customer Services Branch
Minerals and Energy Resources
7th Floor
101 Grenfell Street, Adelaide 5000

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



Government of South Australia
Primary Industries and Resources SA

SCHEDULE A



APPLICANT: CRA EXPLORATION PTY. LIMITED

DM: 155/84

1:250 000 PLANS: WHYALLA BURRA

LOCALITY: BUTE AREA

DATE GRANTED: 24-9-84

AREA: 268 square kilometres (approx.)

DATE EXPIRED: 23-9-85

EL No: 1253

EXPIRED

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TENEMENTS: E.L. 1253.

TENEMENT HOLDER: C.R.A. Exploration Pty. Ltd.

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	Bouguer Gravity Contours.	Pg.	12
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CRA EXPLORATION PTY. LIMITED

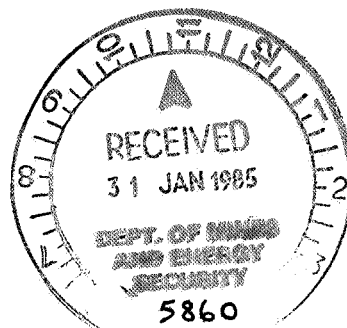
The contents of this report remain the property of C.R.A. Exploration Pty. Limited and may not be published in whole or in part nor used in a company prospectus without the written consent of the Company.

FIRST QUARTERLY REPORTFOR BUTE E.L. 1253, SOUTH AUSTRALIA,FOR THE PERIOD ENDING 24TH DECEMBER, 1984.

AUTHOR: D.L. ANDREWS

COPIES TO: CIS CANBERRA
SADME

DATE: 8TH JANUARY, 1985

SUBMITTED BY: *D.L. Andrews.*ACCEPTED BY: *L.D.L.*

13049

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1. SUMMARY

Reanalysis of diamond drill core held by the SADME did not return any significantly anomalous samples. Further work will be dependent upon a detailed review of the recalculated gravity data and field inspections of Pre Adelaidean subcrop.

2. INTRODUCTION

Bute E.L. 1253 covers an area of approximately 268 square kilometres on the northern Yorke Peninsula (plan SAa 3050). The licence was granted to CRA Exploration Pty. Limited for a period of one year from the 24th September, 1984.

This report summarises work completed during the quarter ending 24th December, 1984.

3. WORK DONE

3.1 Assessment of Previous Work

The SADME undertook an integrated assessment of the Northern Yorke Peninsula involving geological mapping, geophysical surveys and stratigraphic drilling between 1968-1977 in order to evaluate the metalliferous potential of the Northern Yorke Peninsula. Stratigraphic diamond drilling by the SADME, as part of this programme, intersected minor widespread Cu mineralisation within the Adelaidean and pre Adelaidean stratigraphy. The best reported intersection was 6 m @ 0.25% Cu in pre Adelaidean Willamulka Volcanics (DDH Bute 5).

In late 1975 the south eastern part of the project area surrounding Bute was surrendered to N.B.H. as E.L. 248.

Between 1975-June 1982 N.B.H. continuously held title over this area under sequential E.L.'s 248/420/577/972. Expenditure by N.B.H. during this period over these exploration licences was slightly in excess of \$800 000.

In summary their exploration involved:

- Extensive reconnaissance auger drilling.
- Extensive ground magnetics.
- Comprehensive regional gravity surveys (predominantly barometrically levelled).
- A detailed aeromagnetic survey by GEOEX in 1976 (based on uncontrolled aerial photos).

- I.P. surveys on individual geochemical anomalies and conceptual prospects.
- 33 percussion and diamond drill holes.

After N.B.H. relinquished title, St. Joe Exploration held title over the area covered by E.L. 1253 under E.L. 1141 and drilled one diamond drill hole into magnetic Adelaidean siltstones.

3.2 Regional Gravity

All available gravity data has been obtained and Bouguer gravity values recalculated using a S.G. of 2.67 gm/cm^3 . This data has been contoured at a scale of 1:100 000 (plan SAa 3051).

3.3 Assaying

Diamond drill holes Bute DDH2 and DDH12, held by the SADME core library, were inspected and selected intervals reassayed. Results are presented in Appendix I.



D.L. ANDREWS

DLA/pw

EXPENDITURE

Expenditure for the period ended 30th November, 1984, the nearest accounting period was \$2134.00, as listed below.

	\$
Payroll	993
Supplies	21
Vehicle	139
Property	49
Tenements	545
Overheads	387
	<hr/>
Total	\$2134
	<hr/>

LOCATION

Whyalla SI 53-08
Burra SI 54-05

KEYWORDS

Gravity, assays-geochem., diamond drilling, Adelaidean,
Willamulka Volcanics, Cu, breccia, jaspilite.

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
SAa 3050	Bute E.L. 1253 - S.A., Interpreted Geology	1:100 000
SAa 3051	Bute E.L. 1253 - S.A., Bouguer Gravity Contours	1:100 000

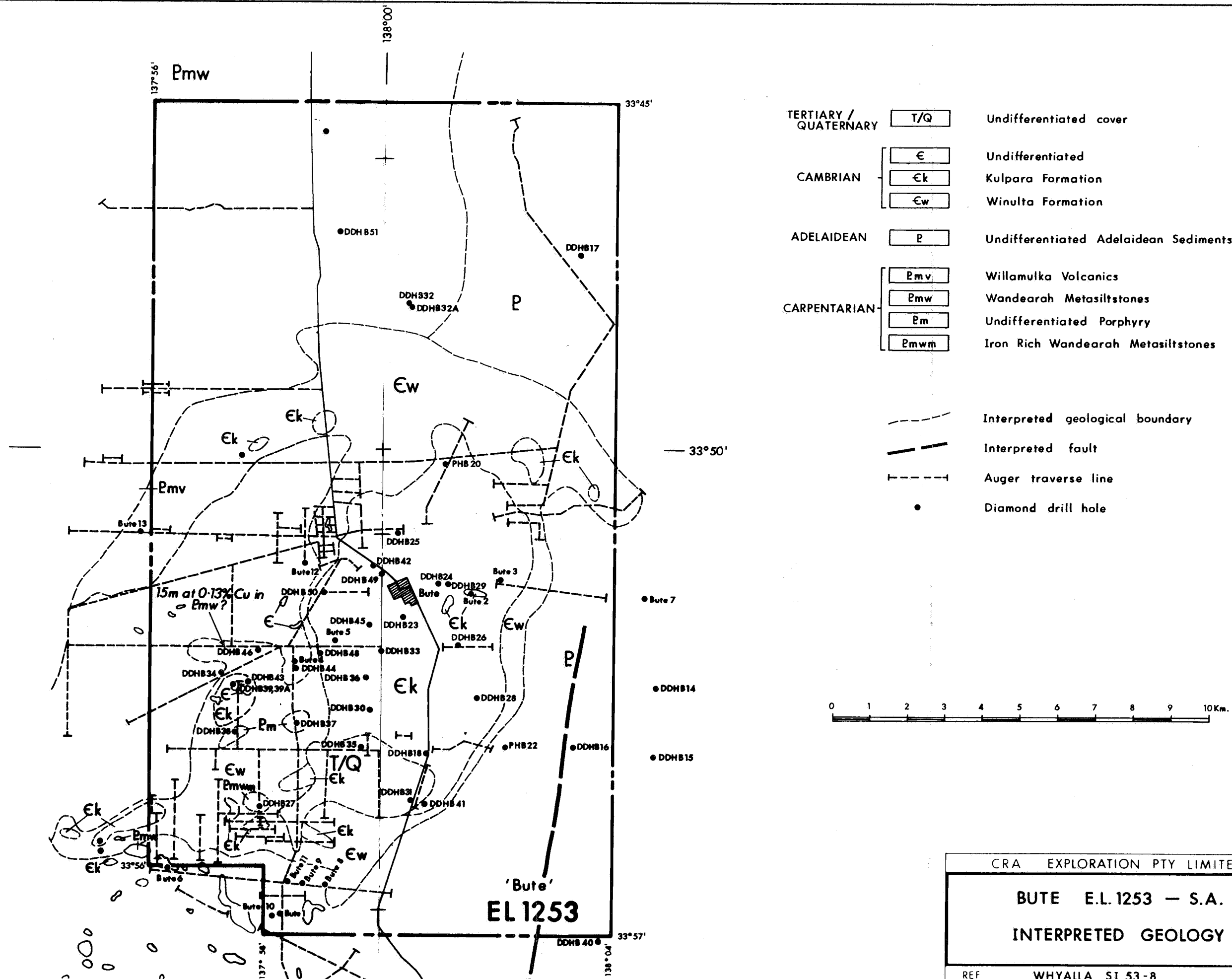
APPENDIX I



ANALYTICAL REPORT

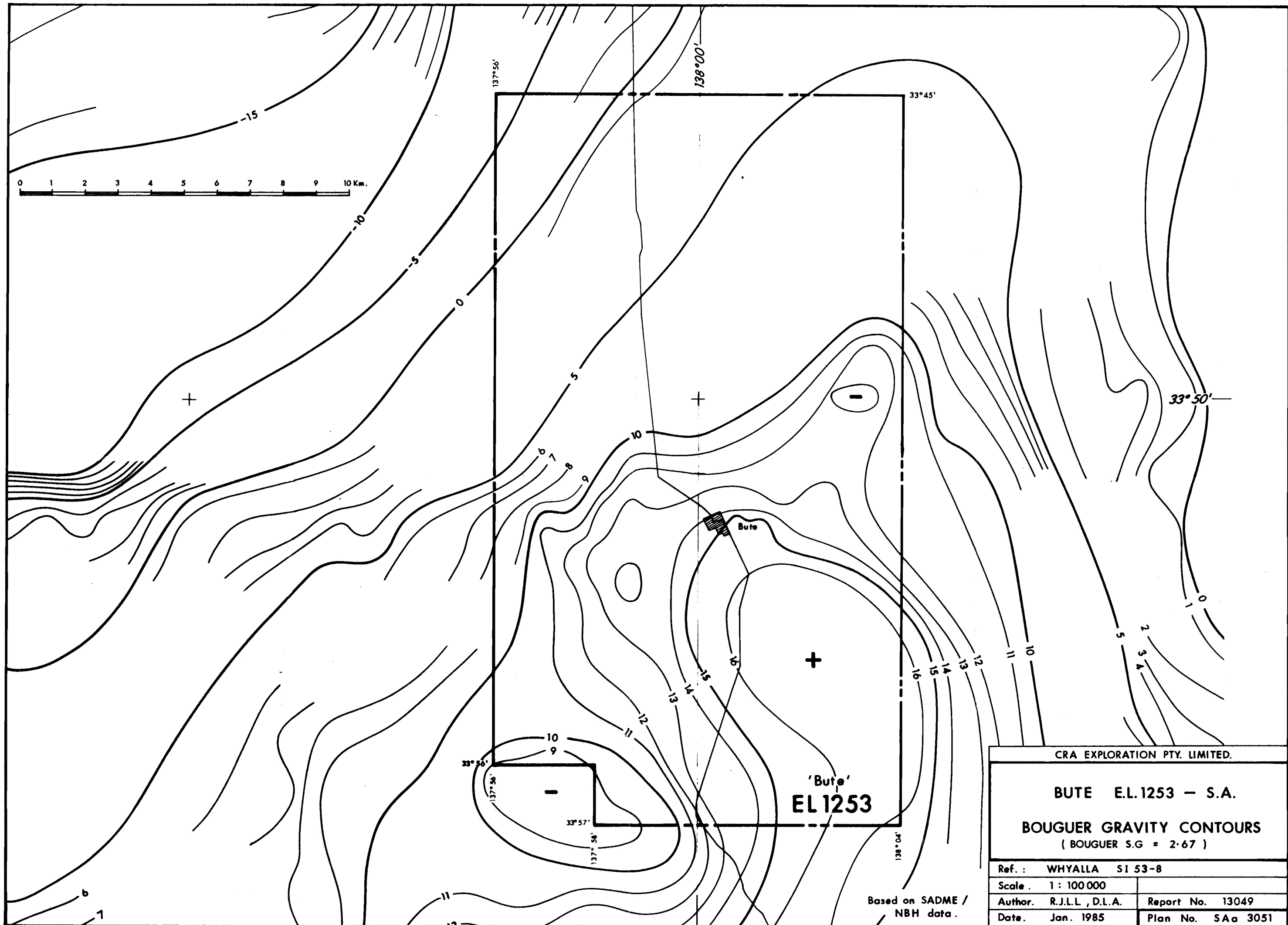
JOB COM842747
O/N : DFO B 0871

DDH	SAMPLE	Cu	Pb	Zn	Co	Ag	Mo	Au	Interval (m)
Bute 2	1237001	4	6	5	8	<1	4	0.03	95 - 96
"	1237002	4	6	4	4	<1	8	<0.02	96 - 97
"	1237003	3	4	3	<4	<1	8	<0.02	97 - 98
"	1237004	5	6	26	8	<1	4	<0.02	98 - 99
"	1237005	310	4	42	40	<1	<4	<0.02	123.4 - 124.4
"	1237006	170	<4	55	24	<1	4	<0.02	124.4 - 125.4
"	1237007	195	<4	65	24	<1	<4	<0.02	125.4 - 126.4
"	1237008	165	4	65	24	<1	<4	<0.02	126.4 - 127.4
"	1237009	185	4	65	24	<1	4	<0.02	127.4 - 128.4
"	1237010	210	4	60	22	<1	<4	<0.02	128.4 - 129.4
"	1237011	195	<4	80	32	<1	4	<0.02	129.4 - 130.4
Bute 12	1237012	5	4	9	20	<1	4	<0.02	7.8 - 8.8
"	1237013	3	<4	8	6	<1	4	<0.02	8.8 - 9.8
"	1237014	2	<4	7	6	<1	<4	<0.02	9.8 - 10.8
"	1237015	3	<4	7	4	<1	<4	<0.02	10.8 - 11.8
"	1237016	5	4	7	4	<1	4	<0.02	11.8 - 12.8
UNITS		ppm	ppm	ppm	ppm	ppm	ppm	ppm	
SCHEME		AAS1	AAS1	AAS1	AAS1	AAS3	AAS3	AAS5B	



CRA EXPLORATION PTY LIMITED			
BUTE E.L. 1253 — S.A.			
INTERPRETED GEOLOGY			
REF	WHYALLA SI 53-8		
SCALE	1 : 100 000		
AUTHOR	D.L.A.	REPORT	13049
DATE	Jan. 1985	PLAN No	SAa 3050

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SECOND QUARTERLY REPORT

FOR BUTE E.L. 1253, SOUTH AUSTRALIA,
FOR THE PERIOD ENDING 24TH MARCH, 1985.

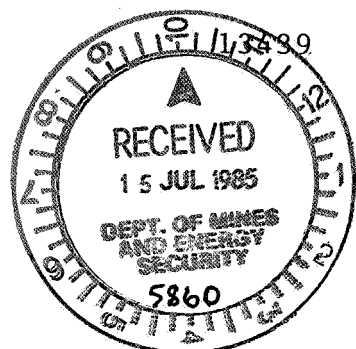
AUTHOR: D.L. ANDREWS

COPIES TO: CIS CANBERRA
SADME

DATE: 22ND MAY, 1985

SUBMITTED BY: *[Signature]*

ACCEPTED BY: *[Signature]*



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1. SUMMARY

Reanalysis of diamond drill core held by SADME and recalculation of existing gravity data did not provide any encouragement for further work to be undertaken.

2. INTRODUCTION

Bute E.L. 1253 covers an area of approximately 268 square kilometres on the northern Yorke Peninsula (plan SAa 3050). The licence was granted to CRA Exploration Pty. Limited for a period of one year from the 24th September, 1984.

This report summarises all work undertaken by CRA Exploration Pty. Limited.

3. WORK DONE

3.1 Diamond Drill Core Analysis

Analysis of 16 quarter core samples from Bute DDH2 and Bute DDH12 did not return any significantly anomalous values. Results are contained in Appendix I.

3.2 Regional Gravity

Regional gravity data from BMR/SADME surveys were combined with detailed gravity surveys undertaken by N.B.H. after Bouguer Gravity values were recalculated using a S.G. of 2.67 gm/cm³.

This data has been contoured at a scale of 1:100 000 (plan SAa 3051).

Interpretation of the data indicates all major gravity anomalies which are not overlain by Cambrian sediments, have been tested by drilling (plan SAa 3050).

A handwritten signature in cursive script, appearing to read "D.L. Andrews".

D.L. ANDREWS

DLA/pw

EXPENDITURE

Expenditure for the period ended 31st March, 1985, the nearest accounting period was \$646.00, as listed below.

	\$
Payroll	(-261)
Supplies	201
Vehicle	299
Travel	431
Rent	52
Overheads	(-76)
	<hr/>
Total	\$646
	<hr/>

LOCATION

Whyalla SI 53-08
Burra SI 54-05

KEYWORDS

Gravity, assays-geochem., diamond drilling, Adelaidean, Willamulka Volcanics, Cu, breccia, jaspilite.

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
SAa 3050	Bute E.L. 1253 - S.A., Interpreted Geology	1:100 000
SAa 3051	Bute E.L. 1253 - S.A., Bouguer Gravity Contours	1:100 000

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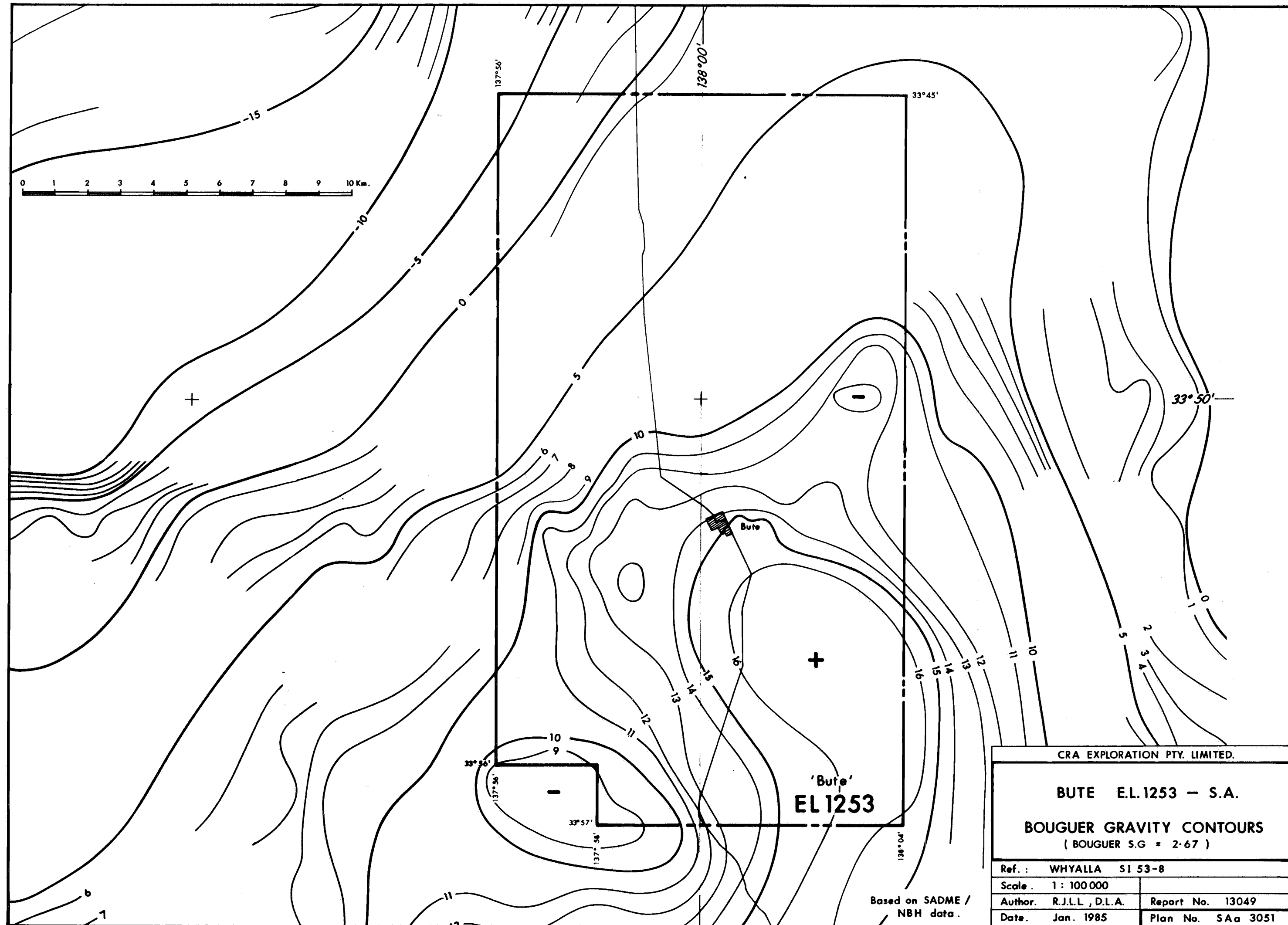
APPENDIX I



ANALYTICAL REPORT

JOB COM842747
O/N : DFO B 0871

	SAMPLE	Cu	Pb	Zn	Co	Ag	Mo	Au	Interval (m)
2	1237001	4	6	5	8	<1	4	0.03	95 - 96
	1237002	4	6	4	4	<1	8	<0.02	96 - 97
	1237003	3	4	3	<4	<1	8	<0.02	97 - 98
	1237004	5	6	26	8	<1	4	<0.02	98 - 99
	1237005	310	4	42	40	<1	<4	<0.02	123.4 - 124.4
	1237006	170	<4	55	24	<1	4	<0.02	124.4 - 125.4
	1237007	195	<4	65	24	<1	<4	<0.02	125.4 - 126.4
	1237008	165	4	65	24	<1	<4	<0.02	126.4 - 127.4
	1237009	185	4	65	24	<1	4	<0.02	127.4 - 128.4
	1237010	210	4	60	22	<1	<4	<0.02	128.4 - 129.4
	1237011	195	<4	80	32	<1	4	<0.02	129.4 - 130.4
12	1237012	5	4	9	20	<1	4	<0.02	7.8 - 8.8
	1237013	3	<4	8	6	<1	4	<0.02	8.8 - 9.8
	1237014	2	<4	7	6	<1	<4	<0.02	9.8 - 10.8
	1237015	3	<4	7	4	<1	<4	<0.02	10.8 - 11.8
	1237016	5	4	7	4	<1	4	<0.02	11.8 - 12.8
	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
	SCHEME	AAS1	AAS1	AAS1	AAS1	AAS3	AAS3	AAS5B	



CRA EXPLORATION PTY. LIMITED.

BUTE EL.1253 - S.A.

BOUGUER GRAVITY CONTOURS
(BOUGUER S.G = 2.67)

Ref. :	WHYALLA SI 53-8
Scale :	1 : 100 000
Author.	R.J.L.L , D.L.A.
Date.	Jan. 1985
Report No.	13049
Plan No.	SAa 3051

Based on SADME /
NBH data.

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THIRD QUARTERLY AND FINAL REPORT
FOR BUTE E.L. 1253, SOUTH AUSTRALIA,
FOR THE PERIOD ENDING 24TH JUNE, 1985.

AUTHOR: D.L. ANDREWS

COPIES TO: CIS CANBERRA
SADME

DATE: 4TH JULY, 1985

SUBMITTED BY:

ACCEPTED BY:

[Signature]
[Signature]



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1. SUMMARY

Reinterpretation of existing data and limited geochemical analysis of diamond drill core failed to provide any encouragement for further work.

2. INTRODUCTION

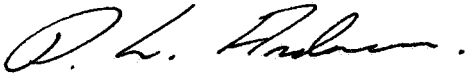
Bute E.L. 1253 covers an area of approximately 268 square kilometres on the northern Yorke Peninsula (plan SAa 3050). The licence was granted to CRA Exploration Pty. Limited for a period of one year from the 24th September, 1984.

This report summarises all work undertaken by CRA Exploration Pty. Limited.

3. WORK DONE

The following work previously detailed was undertaken.

- 1) Summary geological plans showing previous exploration were compiled (Plan SAa 3050).
- 2) A detailed gravity data base was compiled incorporating all available gravity data (Plan SAa 3051).
- 3) Geochemical analysis of SADME Bute DDH2 and Bute DDH12 returned no significantly anomalous values.



D.L. ANDREWS

DLA/pw

EXPENDITURE

Expenditure for the period ended 31st May, 1985, the nearest accounting period was \$1589.00, as listed below.

	\$
Payroll	77
Supplies	201
Vehicle	717
Travel	431
Rent	156
Overheads	7
	<hr/>
Total	\$1589
	<hr/>

LOCATION

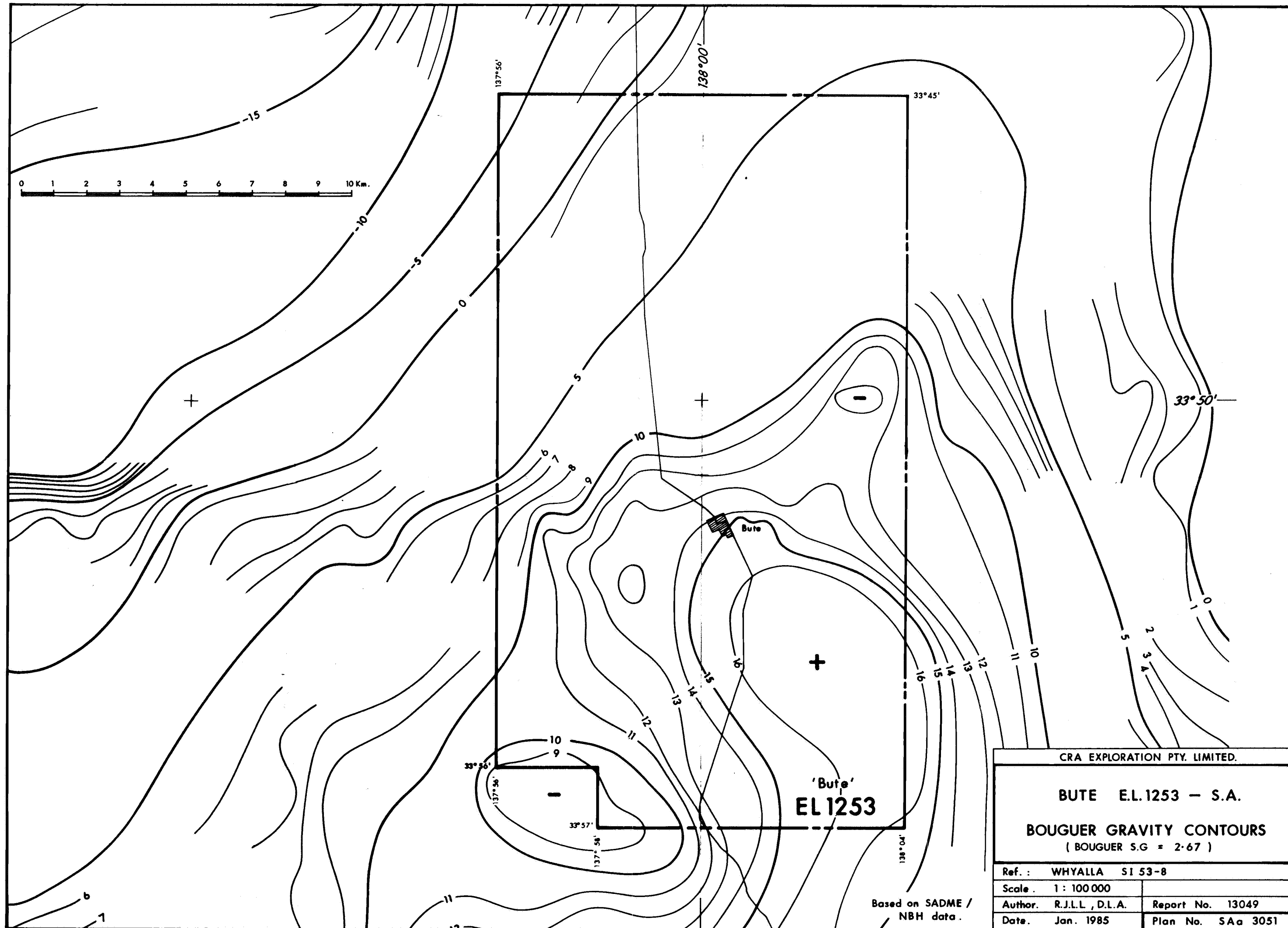
Whyalla SI 53-08
Burra SI 54-05

KEYWORDS

Gravity, assays-geochem., Cu, Au, breccia, jaspilite.

LIST OF PLANS

<u>Plan No.</u>	<u>Title</u>	<u>Scale</u>
SAa 3050	Bute E.L. 1253 - S.A., Interpreted Geology	1:100 000
SAa 3051	Bute E.L. 1253 - S.A., Bouguer Gravity Contours	1:100 000



CRA EXPLORATION PTY. LIMITED.	
BUTE EL.1253 - S.A.	
BOUGUER GRAVITY CONTOURS (BOUGUER S.G = 2.67)	
Ref. :	WHYALLA SI 53-8
Scale :	1 : 100 000
Author.	R.J.L.L , D.L.A.
Date.	Jan. 1985
Report No.	13049
Plan No.	SAa 3051

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