

COU

DLSK

089001

DEPT	NO.	CC	SCANN	DATE
RECEIVED				Register
ANSWERED				E&I
DEPT OF MINES				
REF No:				

80-1433

MICROFILMED

COMMONWEALTH ALUMINIUM CORPORATION LIMITED

E.L. 4/77 TASMANIA

COMPLETION REPORT, BLYTHE ROAD AREA

OPEN FILE

P.W. Askins.
May, 1980.

INTRODUCTION

Previous exploration in this area has been covered in the report Weste, G. 1979, "E.L. 1/76 Guildford and Southern part of E.L. 4/77 Highclere, Report on all exploration from October, 1978 to December, 1979", Commonwealth Aluminium Corporation Limited Unpublished Report.

An induced polarization anomaly over 700 metres long was found in an entirely basalt covered terrain. The nature of the anomaly suggested a relatively shallow source possibly a tin bearing pyrrhotite skarn in unexposed Ordovician limestone.

DRILLING & ANALYSES

A reconnaissance was made of five possible drill sites along the trend of the anomaly. One site was selected with relatively easy access; other sites are mostly in swampy terrain. This site is at (AMG) 403 600mE/5421 200mN. An old logging track from Blythe Road, across Blythe River was revamped, and 300m of new track constructed to give access to the site. A vertical hole, BRD 1 was completed; a summary log is:

<u>BRD 1</u>	0 - 4m	Soil and gravel
	4 - 9m	Peat
	9 - 43m	Basalt, vesicular
	43 - 44m	Siltstone
	44 - 50m	Basalt, vesicular
	50 - 57m	Clay, sand, gravel, deep lead

Full logs are attached.

It was not possible to penetrate to the underlying bedrock because of drilling difficulties caused by a strong flow of artesian water carrying sand and gravel, intersected at about 51m. The hole was plugged and abandoned.

002

089003

The cause of the I.P. anomaly must be the peat from 4 to 9 metres. Samples of this material were sent for analysis, because it was originally thought that the material was wad,pyrolusite, which it greatly resembles in hand specimen. An analyses by Comlabs is:

<u>SAMPLE</u>	<u>Mn</u>	<u>Fe</u>	<u>Au</u>	<u>Ag</u>	<u>As</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>P</u>
PA/T/BRD1									
8.35	60	1.8%	<0.05	<1	6	16	55	140	0.1%

A full silicate analysis by Amdel is attached.

The gravel/sand was panned down; no gold or scheelite was present, but there is much black ilmenite(?) so two samples were sent to Comlabs for Sn analyses, which indicate a trace of cassiterite only:-

<u>SAMPLE</u>	<u>Sn</u>	<u>W</u>	<u>Au</u>	<u>Ag</u>	<u>Pb</u>	<u>Zn</u>
PA/T/BRD 1						
52-53	60	25	<0.05	<1	12	26
55-56	1250	150	<0.05	<1	28	34

Note: Comlabs methods of analysis - Sn, As, W : XRF 1
 Cu, Pb, Zn : AAS 1
 Fe, Mn : AAS 2A
 Ag : AAS 3
 Au : AAS 5
 P : COL 1

CONCLUSIONS

The basalt is about 50m deep, which is around the practical limits of depth penetration of the I.P. method used. Clearly the anomaly must have a source above 50m, and it must be the peaty horizon occurring from 4 to 9 metres depth. This is not thought to have any exploration potential so it is recommended that no further investigations be carried out.

003

089004

PROJECT: _____

HOLE NO: BRD 1 _____

RECOVERY LOG

FROM	TO	ADVANCED INTERVAL	RECOVERY	RECOVERED %
0	3.50	3.50	.30	8.57
3.50	8.35	2.85	.35	12.28
8.35	11.25	2.90	.70	24.14
11.25	12.00	.75	.40	53.33
12.00	14.25	2.25	2.45	108.89
14.25	15.75	1.50	1.70	113.33
15.75	17.25	1.50	1.50	100.00
17.25	19.75	2.50	2.65	106.00
19.50	22.80	2.05	2.95	143.90
22.80	25.80	3.00	3.10	103.33
25.80	29.80	4.00	3.10	77.50
29.80	31.95	2.15	3.05	141.86
31.95	35.00	3.05	3.16	103.61
35.00	38.10	3.10	3.20	103.23
38.10	41.20	3.10	3.22	103.87
41.20	44.30	3.10	2.30	74.20
44.30	47.30	3.00	3.10	103.33
47.30	50.30	3.00	2.85	95.00
50.30	53.30	3.00	2.30	76.67
53.30	54.00	.70	.20	28.57
54.00	54.90	.90	.54	60.00
54.90	56.30	1.40	.85	60.71
56.30			1.60	

COMMONWEALTH ALUMINIUM CORPORATION LIMITED
EXPLORATION DEPARTMENT
GEOLOGISTS DRILLING LOG

Project: BLYTHE ROAD - E.L. 4/77 **Date:** MARCH 19 80

Hole No BRD 1 **Location (AMG)** 403600mE/5421200mN **Angle Vertical** **Azimuth**

Hole No **Location** **Angle** **Azimuth**

Drilled by J. James **Drilling Method** JOY 22HD

Moving Rig **Hrs**

Operating Rig **Hrs** Core has not been photographed

Delays (specify) **Hrs**

Daily Total **Hrs** LOGGED BY: P.W. Askins

From	To	Advanced	Recovered	Description
0	3.60			SOIL and GRAVEL - pebbles of sandstone
3.60	9.00			PEAT- f black,
9.00	12.25			BASALT, CW, green
12.25	12.35			Gravel, some peat (probably collapsed material from above)
12.35	43.20			BASALT, SW to 15.75, Fr beyond, massive dark greenish, less than 10% vesicles with calcite + weathered zeolites? and montmorillonite
43.20	43.45			MANGANIFEROUS SILTSTONE, f, black
43.45	44.20			SILTSTONE, f, dark brown, fine bedding at 90°. Probably bentonitic
44.20	50.00			BASALT, Fr, dark greenish, overall 15-20% vesicles filled or partially filled with f cream xalline apophyllite?
50.00	51.80			CLAY & SEMICONSOL SILTSTONE, greys, greens some carbonaceous
51.80	54.00			SAND & GRAVEL
54.00	55.10			CLAY & SILTSTONE, carbonaceous
55.10	57.00			SAND & GRAVEL
				END OF HOLE

Remarks: 1. PEAT at 3.60 - 9.00 is probably source of I.P. chargeability anomaly.

2. Artesian water at about 52m brought up much sand, gravel etc. to surface, caused drilling difficulties, cessation of hole and loss of about 50m of casing.

BLYTHER FILL

089006

Computed S.W.
Date Dec. 1999 Scale:

NOTE: GRID IS NORTH

5 cm

21700 N

21600 N

21500 N

21400 N

21300 N

21200 N

21100 N

402000 E 402100 E 402200 E 402300 E 402400 E 402500 E 402600 E 402700 E 402800 E 402900 E 403000 E 403100 E 403200 E 403300 E 403400 E 403500 E 403600 E 403700 E 403800 E 403900 E 40

BLYTHER ROAD

BLYTHER ROAD

I.P. anomaly

I.B. anomaly

BLYTHER R

BLYTHER RIVER

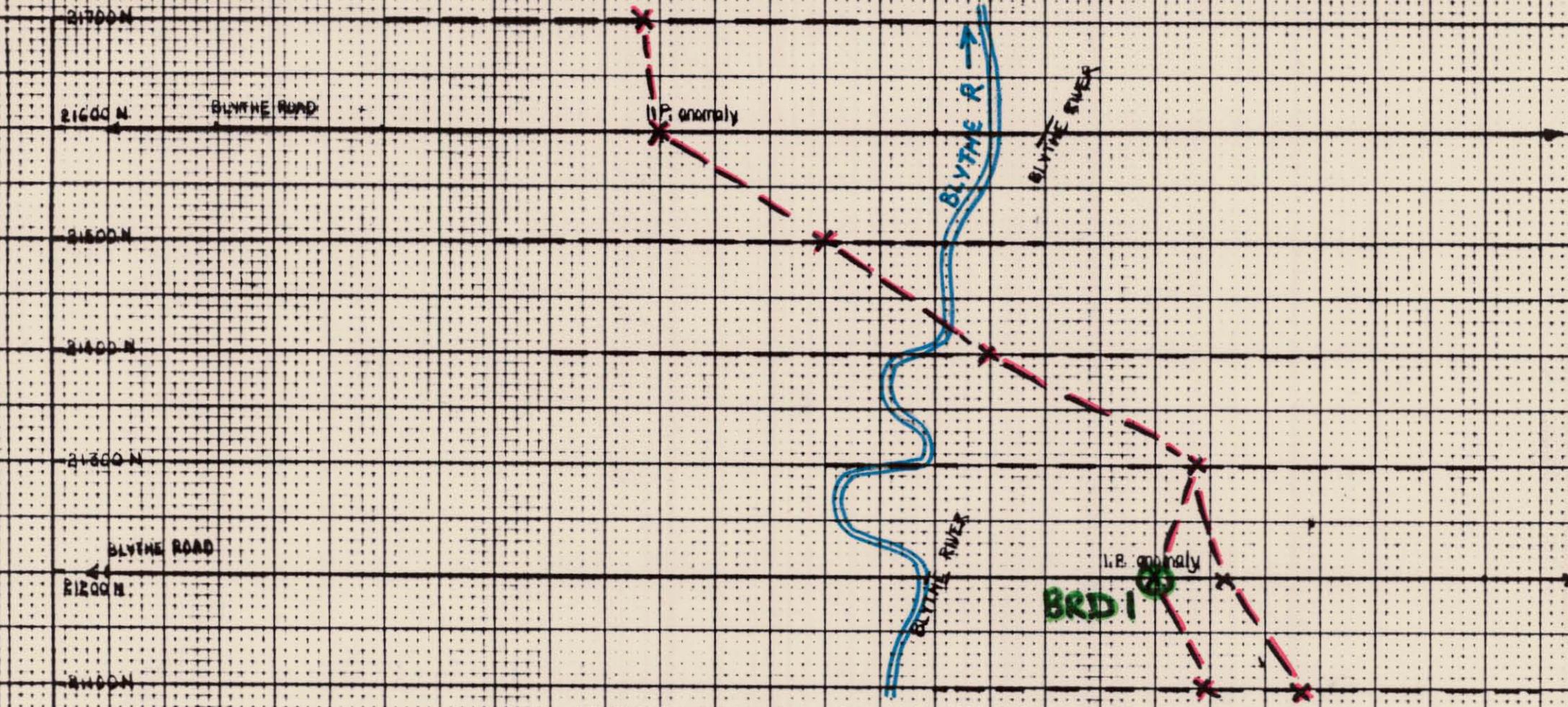
BLYTHER RIVER

BRD 1

EL 4/77

EL 1/76

205



146°00'

147°00'

089007

BASS STRAIT

41°00'

41°00'

Wynyard

BURNIE

DEVONPORT

Bell Bay

HIGHCLERE
E.L. 4/77

RIANA
E.L. 8/77

**BLYTHE RD.
AREA**

Wilmot

Guildford

Moina

LAUNCESTON

GUILDFORD
E.L. 1/76

QUAMBY
E.L. 17/76

MOINA E.L. 7/74

COMALCO

TASMANIA

TENEMENT LOCATION MAP

5 cm

Compiled: P.A.	Revised: July, 1979	Drawn: M.A.
Date: October, 1978	Scale: 1:500,000	Drg N° TAS-78-215

007

089008

DEPT. OF MINES	A.O.	CG	REGISTRATION	CLASSIFICATION
RECEIVED				Register
22 MAY 1980				E & IL
ANSWERED				
DEPT OF MINES				
REF. No.				

COMMONWEALTH ALUMINIUM CORPORATION LIMITED

E.L. 4/77 TASMANIA

COMPLETION REPORT, BLYTHE ROAD AREA

P.W. Askins.
May, 1980.

002



The Australian
Mineral Development
Laboratories

31 King Street, Frewville,
South Australia 5063
Phone Adelaide 79 1662
Telex AA 82520

Please address all
correspondence to
P.O. Box 114 Eastwood
SA 5063
In reply quote:

089009

amdel

3/1/4/0 - AC 4396/80

16 May 1980

Mr. P. Askins,
Commonwealth Aluminium
Corporation Limited,
P.O. Box 691,
DEVONPORT, Tas 7310

REPORT AC 4396/80

YOUR REFERENCE:	BRD 1 Charge to: 25.07.013
IDENTIFICATION:	As listed
DATE RECEIVED:	25 March 1980

Enquiries quoting AC 4396/80 to the Manager please.

D. K. Rowley,
Manager,
Analytical Chemistry Division.

D. K. Rowley
for Norton Jackson,
Managing Director.

cc P.W. Stainton,
45 Collins St,
Melbourne

jkw

009

089010

PAGE 2
4396/80

ANALYSIS

BRD 1 at 8.35 m

SAMPLE MARK	BRD 1
SILICA SiO ₂	58.7
TITANIUM OXIDE TiO ₂	1.17
ALUMINIUM OXIDE Al ₂ O ₃	16.6
FERRIC OXIDE Fe ₂ O ₃	3.41
MANGANESE OXIDE MnO	0.01
MAGNESIUM OXIDE MgO	0.74
CALCIUM OXIDE CaO	0.18
SODIUM OXIDE Na ₂ O	0.07
POTASSIUM OXIDE K ₂ O	2.67
PHOSPHORUS PENTOXIDE P ₂ O ₅	0.07
LOSS ON IGNITION	15.87
TOTAL	99.5
