

26961

530001

MS-1089

BORE HOLE DATA AND ANALYSIS

EL 20/74

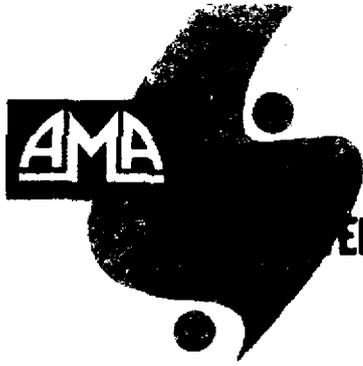
DRILL LOG REPT. FOR  
LOUISA MINING ON EL 20/74

**MICROFILMED**

530D

000

530002 Q69 75-1084



**ASSOCIATED MINERALS CONSOLIDATED LIMITED**

INCORPORATED IN NSW

HEAD OFFICE: FERRY ROAD, SOUTHPORT, QLD. P.O. BOX 51 SOUTHPORT, QLD. 4215, AUSTRALIA Cables: ASSOMIN, BRISBANE Telex AA40380 Tel: 075-313061

*E.L. 20/74*

HJS:PM

14th May, 1975.

The Chairman,  
Louisa Mining Corporation N.L.  
P.O. Box 1172,  
Launceston. 7250

Dear Sir,

I refer to our phone conversation of yesterday and I apologise for the delay in providing you with information necessary for the Tasmanian Department of Mines.

Our Geological Department and our Laboratory have been under very heavy pressure in recent weeks and this has contributed to the delay.

I enclose herewith a copy of a report from our Drilling Supervisor, which summarises the drilling carried out in February and March of this year, also I enclose some laboratory reports which relate to the heavy mineral content of the samples obtained by the drilling programme, and I trust this information will be sufficient for your report.

From the results to hand it would appear that in considering the future of these areas in view of the low grades available that they could only be looked at in the context of one operation covering all of the areas.

Encl.



Yours faithfully,  
ASSOCIATED MINERALS CONSOLIDATED LIMITED

H.J. Surman  
Manager, Operational Services







530006

(A.M.A. 4/74) Form No. 3/032

## ASSOCIATED MINERALS CONSOLIDATED LIMITED

## HEAVY MINERAL ANALYSIS REPORT SHEET

SAMPLE SOURCE Tasmania Exploration

LABORATORY:

DATE: 20/11/75

(Components as % of Heavy Mineral)

(Analysis expressed in % of Heavy Mineral)

SAMPLE NO.	DESCRIPTION	GRADE	NON-MAGNETICS			MAGNETICS			Cr <sub>2</sub> O <sub>3</sub> in Ilmenite	<del>Ilmenite</del>
			N.M. Other *	Rutile	N.M. Zircon	Mag Zircon	Mona-zite	Bal-ance		
SCS 293	Early Rise	96.9	13.7	2.0	12.9		71.4			
SCS 294	Cape Bougainville	86.8	19.9	0.6	2.6		76.9			
SCS 295	SWB Line 3	93.2	7.9	9.3	16.3		66.5			
SCS 296	SWB Lines 1 & 2	93.7	12.2	2.6	3.1		82.1			

% TOPAZ  
in  
HEAVY MIN.

○

4.77

1.07

0.12

0.12

\* N.M. Others Includes Topaz

○ Topaz Expressed in Heavy Min.

800

ASSOCIATED MINERALS CONSOLIDATED LIMITED  
HEAVY MINERAL ANALYSIS REPORT SHEET

530007

SAMPLE SOURCE

LABORATORY:

DATE:

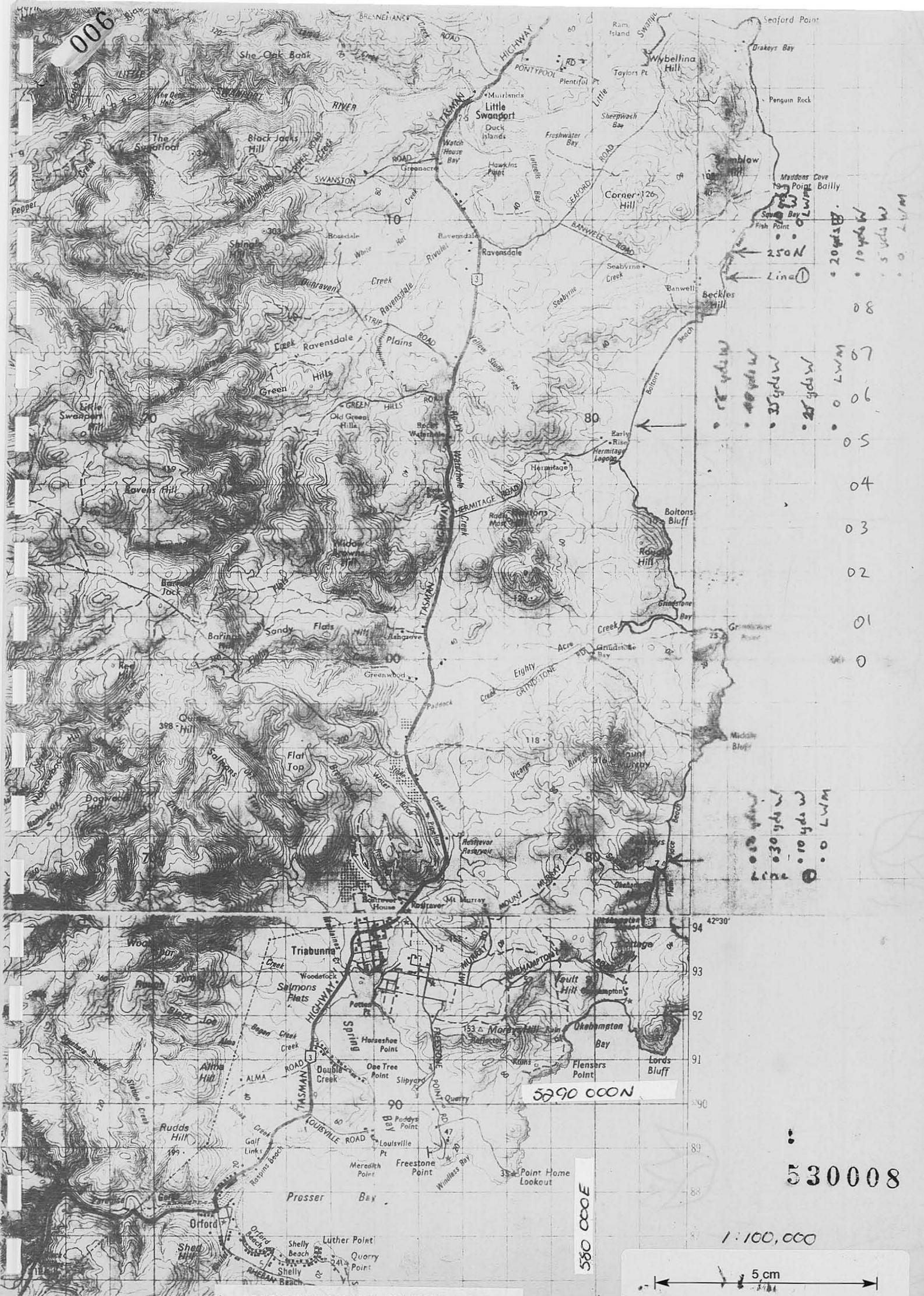
(Components as % of Heavy Mineral)

(Analysis expresses as % of indicated sub-fraction)

SAMPLE NO	DESCRIPTION	GRADE	NON MAGNETICS			MAGNETICS			Cr <sub>2</sub> O <sub>3</sub> in Ilmenite	Ilmenite in Maos	Magnetite in Mags	SnO <sub>2</sub> in N/Mags
			N.M. Others	Rutile	N.M. Zircon	Mag Zircon	Mona- zite	Bal- ance				
CS 883	Bromoform Cons ex Tasmania Long Point Beach											
	<i>E.L. 19/74</i>	95.9	8.9	0.8	10.0	0.1	0.1	80.1	N.S.S.	2.5	2.6	0.036
CS 884	Bromoform Cons ex Tasmania Friendly Bay	97.6	24.7	0.9	21.9	0.2	0.1	52.2	11.2	7.8	4.2	0.114
CS 885	Bromoform Cons ex Tasmania 9 Mile Beach	96.4	15.6	0.4	1.5	0.05	0.05	82.4	N.S.S.	2.0	7.9	0.005
	<i>E.L. 2/75</i>											
CS 886	Bromoform Cons ex Tasmania Early Rise Beach	94.3	9.0	1.6	9.0	0.2	0.1	80.1	6.3	6.3	10.8	0.014
	<i>E.L. 20/74</i>											

900

006



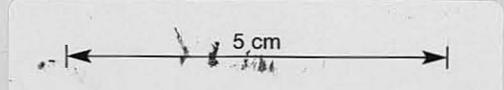
250 N  
 Line 1  
 20 yds W  
 10 yds W  
 5 yds W  
 0 LWM  
 08  
 07  
 06  
 05  
 04  
 03  
 02  
 01  
 0  
 0.0 yds W  
 0.30 yds W  
 0.10 yds W  
 0.0 LWM

5890 000 N

580 000 E

530008

1:100,000



AMG REFERENCE POINTS ADDED

80



## ASSOCIATED MINERALS CONSOLIDATED LIMITED

## INTER-OFFICE COMMUNICATION

Directive

Report

Informative

TWT:PM

From:- DRILLING SUPERVISOR

Date:- 13th May, 1975.

ACTION ADDRESSEE(S):

INFORMATION ADDRESSEE(S):

MANAGER, OPERATIONAL SERVICES

Re: Tasmanian Zircon Project. Summary of Drilling by L. Carey  
(17.2.75 to 6.3.75)

Areas drilled and details -Seven Mile Beach - Lines 1, 2 & 3 - 205 feet in 28 bores

All bores were drilled to the water-table.

Long Point South - Line 380S (89 feet in 11 bores)  
 " 434S (46 feet in 8 bores)  
 " 486S (97 feet in 16 bores)  
 " 538S (18 feet in 4 bores)  
 " 591S (11 feet in 3 bores)  
 " 644S (70 feet in 7 bores)  
 " 696S (125 feet in 10 bores)  
 " 749S (105 feet in 9 bores)  
 " 802S (101 feet in 15 bores)

Long Point North - Line 1 (77 feet in 9 bores)  
 " 2 (101 feet in 13 bores)  
 " 3 (66 feet in 12 bores)

Long Point - Bores 1 & 2 (14 feet in 2 bores)  
Bamwell - Line 1 & 250N (17 feet in 4 bores)  
Creek South of Crater - (17 feet in 3 bores)  
Long Point Nth. - M1 & M2 (34 feet in 2 bores)  
Nine Mile Beach - (49 feet in 7 bores)  
Isaacs Point North - (19 feet in 2 bores)  
Butlers Point South - (3 feet in 1 bore)  
The Friendly Beaches - Line 1 (52 feet in 7 bores)  
 " " " " 2 (25 feet in 3 bores)  
Early Rise (23 feet in 4 bores)  
Cape Bougainville (36 feet in 3 bores)

Most bores were drilled to W.L. or gravel. A few bores went 2 to 3 feet below water level.

*T.W. Thomas*  
 T.W. Thomas







530014

## ASSOCIATED MINERALS CONSOLIDATED LIMITED

## HEAVY MINERAL ANALYSIS REPORT SHEET

012

LABORATORY:

DATE:

(Components as % of Heavy Mineral)

(Analysis expresses as % indicated sub-fraction)

DESCRIPTION	GRADE	NON MAGNETICS			MAGNETICS			Cr <sub>2</sub> O <sub>3</sub> in Ilmenite	Ilmenite in Mass	Magnetite in Mags.	SnC in N/Mt
		N.M. Others	Rutile	N.M. Zircon	Magn Zircon	Mon- site	Bal- ance				
Bromoform Cons ex Tasmania Long Point Beach <b>RES 883</b>	95.9	8.9	0.8	10.0	0.1	0.1	80.1	N.S.S.	2.5 <i>S.G. over 4.38.</i>	2.6	0.03
Bromoform Cons ex Tasmania Friendly Bay <b>RES 884</b>	97.6	24.7	0.9	21.9	0.2	0.1	52.2	11.2	7.8	4.2	0.11
Bromoform Cons ex Tasmania Mile Beach <b>RES 885</b>	96.4	15.6	0.4	1.5	0.05	0.05	82.4	N.S.S.	2.0	7.9	0.00
Bromoform Cons ex Tasmania Early Rise Beach <b>RES 886</b>	94.3	9.0	1.6	9.0	0.2	0.1	80.1	6.3	6.3	10.8	0.01

530015

ASSOCIATED MINERALS CONSOLIDATED LIMITED

HEAVY MINERAL ANALYSIS REPORT SHEET

013

SOURCE Tasmania Exploration

LABORATORY:

DATE: 2nd April 1970

(Components as % of Heavy Mineral)

(Analysis expresses as % of indicated sub-fraction)

DESCRIPTION	GRADE	NON-MAGNETICS			MAGNETICS			Cr <sub>2</sub> O <sub>3</sub> in Ilmenite	<del>Ilmenite in Magnetite</del>	S Magnetite
		N.M. Other *	Rutile	N.M. Zircon	Mag Zircon	Mona- zite	Bal- ance			
Early Rise <b>BS293</b>	96.9	13.7	2.0	12.9		71.4				
Cape Bougainville <b>BS294</b>	86.8	19.9 (8.5)	0.6 (10.0)	2.6 (17.1)		76.9				
SMD Line 3 <b>SES295</b>	93.2	7.9	9.3	16.3		66.5				
SMD Lines 1 & 2 <b>SES296</b>	93.7	12.2	2.6	3.1		82.1				

○ % TOPAZ  
in  
HEAVY/MIN.

\* N.M. Others Includes Topaz

○ Topaz Expressed as % of Heavy Min.

MINERAL DEPOSITS LIMITED  
SOUTHPORT

PLEASE COVER ONLY ONE SUBJECT IN EACH LETTER

TO MR. M. ATFIELD INTER-OFFICE MEMORANDUM No.  
FROM MS. A. SHEPHERD YOUR REFERENCE  
SUBJECT Composition of Tasmanian Samples as Supplied. OUR REFERENCE  
DATE 30th June, 1975.  
COPIES TO

The following five (5) samples were treated as follows:-

- (1) Magnetically Separated on the Carpco Lab. magnet at varying amps; Residual, 0.35, 1.5, and 2.4 amps. All fractions weighed and retained
- (2) The 1.5 N-Mags fraction was bromoformed to remove the Quartz content. Both fractions weighed and retained.
- (3) The Heavy Mineral from (2) above, was treated in Clerici's 4.05 S.G. Both fractions were weighed and retained.

COMPOSITION %

DESCRIPTION	TEST NO.	H/S	ILM	OTH.	QTZ.	(clerici's)		TOTAL
						SINK	FLOAT	
SEYMOUR LINE 8025	1.	1.33	40.24	14.27	20.67	17.43	6.06	100.0
OKHAMPTON COMP.	2.	1.86	34.10	29.55	26.89	5.91	1.69	100.0
BANWELL COMP.	3.	1.27	25.81	20.99	46.75	3.17	2.01	100.0
COMPOSITE SAMPLE SEYMOUR (High Dunes)	4.	.59	46.77	18.16	12.17	13.91	7.96	100.0
AB1/-010 NECK ISTHMUS B	5.	1.07	32.91	48.68	7.67	7.57	2.10	100.0

*MS. A. Shepherd*

015  
CSIRO

MINERALS RESEARCH LABORATORIES - DIVISION OF MINERAL CHEMISTRY

200 WILKINSON ROAD, PORT MELBOURNE, VICTORIA, TELEPHONE 64 02

P.O. BOX 124, PORT MELBOURNE, VICTORIA, AUSTRALIA 3207. TELEGRAMS: MINCHEM MELBOURNE. TELEFAX 64 51 43

ERS:BC

17th March, 1976

Mr. M.C. Forster,  
556 Sandy Bay Road,  
SANDY BAY, TAS., 7005

Dear Mr. Forster,

Bruce Wilson has passed on to me your correspondence concerning topaz. The two main areas of possible use of topaz which could be considered are as a refractory, or as an abrasive. I don't think there would be a market in the metallurgical flux field, as fluorspar is a much more suitable, and quite available, material.

The alumina/silica ratio of topaz renders it potentially useful as a high grade firebrick material. Work has been done on this in the U.S.A., although I am not sure whether it is actually used commercially. However, I have spoken to Mr. S.M. Brisbane (CSIRO Division of Tribophysics, G.P.O. Box 4331, G.P.O., Melbourne, 3001) who is in charge of the Refractories Research group, and he would be interested to test your topaz. I suggest that you get in touch with him, and, initially, send him a sample of 1/2 kilogram.

As regards an abrasive, topaz has the desirable hardness, but it also has a very good cleavage, which gives it a strong tendency to break easily into small flat fragments rather than irregular, but more or less equidimensional grains. I think this facile cleavage would make it unsatisfactory for grinding stones or sanding cloths and papers. However, it might be useful for applying to concrete surfaces as a slip-resistant finish. I will discuss this with a colleague who is an expert in the use of concrete.

Another possible use which occurs to me might be in glass manufacture, but I will have to look more closely into that one.

Yours sincerely,



E.R. SEGINIT  
Senior Principal Research Scientist

530018



COMALCO ALUMINIUM (BELL BAY) LIMITED  
*Incorporated in Tasmania*

P.O. Box 290 George Town Tasmania 7253

Your Ref.  
Our Ref. TSL.0307  
DAH/bp

11th November, 1975.

Mr Mac Forster,  
Louisa Mining Corporation N.L.,  
556 Sandy Bay Road,  
SANDY BAY, Tasmania, 7005.

Dear Mr Forster,

We have carried out a further series of tests on your topaz material and attach a copy of the analysis details for your information. The chemical purity looks satisfactory; however, we carried out some simulated dissolution trials and observed that the topaz does not dissolve readily in our electrolyte flux. This would imply that the fluorine and alumina values in the topaz are not recoverable in our conventional process and thus, regretfully, the material is of no commercial interest to us.

We would thank you for the opportunity to examine this material, and trust that the overall project remains viable.

Yours faithfully,

A handwritten signature in dark ink, appearing to read "D. A. Harrison".

D. A. HARRISON  
Analytical & Environmental  
Services Superintendent

attachment

*copy to Ralph Seignel  
CSIRO  
Melb*

017

COMALCO ALUMINIUM (BELL BAY) LIMITED

TECHNICAL SERVICES DEPARTMENT

LABORATORY REPORT

DATE 19th September, 1975.

SAMPLE INFORMATION

TO. J. OSBORNE  
D. HARRISON  
LAB. FILE

TOPAZ EX LOUISA MINING NL  
- NON CONDUCTING PRODUCT

RESULT.

H <sub>2</sub> O	0.03	%
L.O.I.	0.15	%
Na <sub>2</sub> O	0.13	%
MgO	L 0.01	%
CaO	0.03	%
TiO <sub>2</sub>	0.51	%
Fe <sub>2</sub> O <sub>3</sub>	0.10	%
V	L 0.01	%
Ni	L 0.01	%
Al <sub>2</sub> O <sub>3</sub>	48.4	%
SiO <sub>2</sub>	35.4	%
F	12.5	%

*I. Clement*

I. CLEMENT  
Chemical Laboratory Supervisor