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ANNUAL REPORT

1995-1996

ELs 31/90 REDPA & 33/90 TOGARI

**MICROFILMED**  
FICHE No. -

by

Vic Threader

for

- 4 JUN 1996		
EL 33/90	SEE	FOLIO 49
EL 31/90	SEE	FOLIO 51

MINERAL HOLDINGS AUSTRALIA Pty Ltd

96-3875

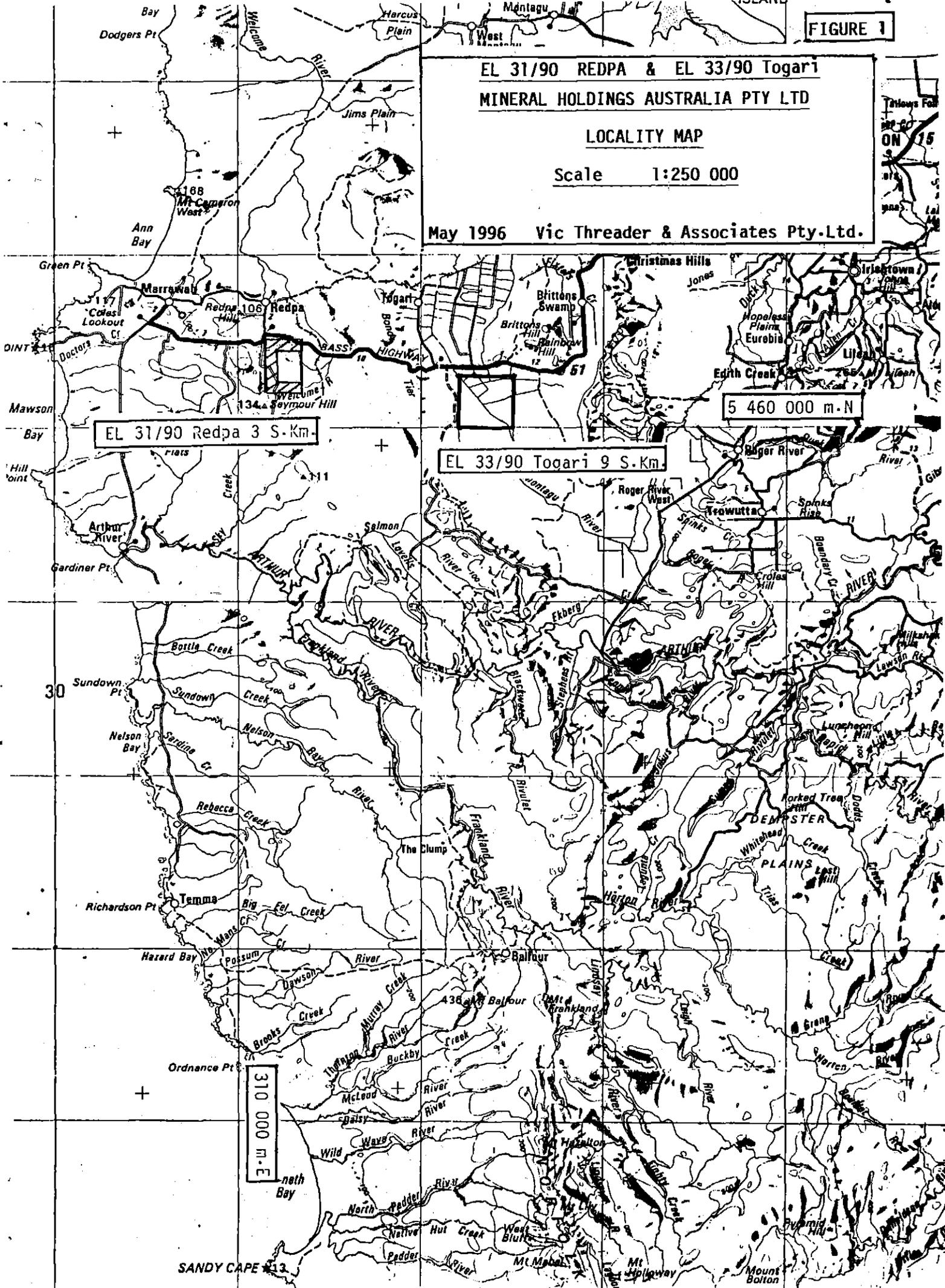
ANNUAL REPORT 1995-96 ELS 31/90 REDPA  
& 33/90 TOGARI - MINERAL HOLDINGS P/L  
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EL 31/90 REDPA & EL 33/90 Togari  
MINERAL HOLDINGS AUSTRALIA PTY LTD

LOCALITY MAP

Scale 1:250 000

May 1996 Vic Threder & Associates Pty.-Ltd.



EL 31/90 Redpa 3 S.Km.

EL 33/90 Togari 9 S.Km.

5 460 000 m.N

310 000 m.E

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5 cm

C O N T E N T S

Introduction

Tenement Details

Previous Exploration

Current Exploration

Proposed Exploration

Figures:

- |    |   |             |
|----|---|-------------|
| 1  | Locality Map                            | (1:250,000) |
| 2  | Geological Map EL 31/90                 | (1:50,000)  |
| 3. | Borehole Locations "                    | (1:5000)    |
| 4. | Sample & Borehole Locations<br>EL 33/90 | (1:12,500)  |

Appendix:

- 1 AMG Coordinates of Boreholes
- 2 Borehole Logs
- 3 Chemical Analyses & Laboratory Reports

### INTRODUCTION:

ELs 31/90 & 33/90 are located in northwestern Tasmania adjacent to Bass Highway at distances of 30 & 25 km., respectively, due west of Smithton.

The objective in both licences is to investigate the Smithton Dolomite for use in the chemical and metallurgical industries. In addition, a deposit of Tertiary limestone occurring in EL 31/90, was investigated but no commercial application has yet been found for it. ELs 31/90 & 33/90 are situated in freehold land except for 2 S.Km. in the southern part of EL 33/90 which is in State Forest and currently is without access. No exploration has as yet been conducted there.

### TENEMENT DETAILS

EL 31/90 (Redpa), 6 S.Km., was issued on 3 April 1991 and was reduced to 3 S.Km. on the 1996 renewal date as required by Regulations.

EL 33/90 (Togari), 32 S.Km., was issued on 7 June 1991 and was reduced to 9 S.Km. by the licence holder on 5 December 1994.

### PREVIOUS EXPLORATION:

1991-1992.

EL 31/90 .Rockchip sampling, hammerdrilling and diamond drilling of Tertiary limestone and Smithton Dolomite.. The Smithton Dolomite crops out sparsely in the licence and consists of scattered outcrops of 95% dolomite on the

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western side and of 40% dolomite (magnesian limestone or more correctly, banded limestone/dolomite) on the eastern side. The distribution of these two types is shown on Figure 3.

DD1 & BHs 1, ~~23~~, 24 & 26 were drilled in dolomite and BHs 23 and 25 were drilled in magnesian limestone.

The other boreholes (Nos. 2 to 22 and DDHs 1-6) were drilled in Tertiary limestone and none of them intersected the underlying Smithton Dolomite.

EL 33/90 Rockchip samples of Smithton Dolomite were taken from exposures in drainage channels.

Dolomite outcrop is sparse in this licence also but it is well exposed in drainage channels and in the bed of Montagu River but only visible during dry periods of the year..

1992-1993 The Australian rights to the Cameron Process for magnesium metal production were acquired during this period and a pre-feasibility study was presented. There was no fieldwork.

1993-1994. Half tonne samples of dolomite were blasted from outcrop. Two samples from EL31/90 (King's & Edwards' properties) and one from EL 33/90. Half of each sample (250kg.) was airfreighted overseas for furnace trials but no results have been obtained. The other half of the samples was kept in reserve and analyses of this material was given in the Annual Report for that year.

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1994-1995

EL 33/90. 29 Backhoe pits were dug along drains and access tracks to expose dolomite to permit sampling for analysis. This was an extension of previous sampling to increase the area of surface sample coverage.

1995-1996 Percussion drilling of dolomite was carried out in both licences using an Airtrack rig fitted with a downhole hammer and using 125mm.PVC casing to support the hole and to prevent sample contamination. The contractors were G & G Drilling.

EL 31/90 Most of the licence area is cleared and under permanent pasture and there were virtually no constraints with regard to access for exploration. The total area of dolomite outcropping in this licence would not exceed 2000S.M., the largest being in the SW corner of the King property which measured 60m.(strike length)x12m. ie. an area of around 700 S M., it was therefore necessary to collar most of the boreholes in overburden in order to cover a large enough area to define a minable resource of dolomite. Boreholes R6, R7 & R8 were drilled in the main outcrop area and collared on outcrop. Thicknesses of dolomite in these holes were 4m.(cavity intersected), 14m.+ and 11m.(cavity intersected), respectively, Boreholes 1, 2, 3, 4, 5 & 9 were collared in overburden which consisted of 7-13m. of brown clay. Of these holes, only BH2 returned any sample which was magnesian limestone. The other holes "belled out" at the bedrock contact preventing sample return. It was not considered worth

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perservering with these holes as a stone resource under 10m. of overburden is unlikely to be a viable mining proposition.

Borehole 10 was drilled to a depth of 20m. on the eastern side of the licence where an area of around 1 ha. of magnesian limestone crops out. This occurrence is capped by Tertiary limestone and a contact of these two beds is exposed at AMG 313,080m.E./ 5,463,750m.N.

EL 33/90 Five holes were drilled on a pre existing vehicular track alongside a major drainage channel, tributary to Montagu River. Further rockchip samples were taken at the nearest exposure to the BH collar.

The depth to sub-outcrop in these 5 boreholes and in the drainage channel is about 2m. In Backhoe pits 12-25 which are located a few hundred metres to the south of the boreholes, it averaged 1m. (AR 1995, TCR 95-3735)

The drilling programme was temporarily suspended while the results were being assessed and it is anticipated that it will continue during the next year of tenure.

#### Discussion of Results

EL 31/90 The regional structure, (Woolnorth geological map (Seymour et.al.) indicates folding on northeasterly plunging axes with a wavelength of around 20 km. Cross sections on this map indicate that the Redpa area lies on the western limb of a syncline and the Togari area lies on the eastern limb of an anticline.

In the subject area dip/strike measurements imply minor folding on northwesterly axes and a wavelength of around 500m.; there are insufficient observations to clarify the stratigraphy or structure in the licence area but the interpretation depicted in the cross sections in Figure 3 indicates that an economic resource of dolomite does not occur in the area investigated in this report.

The magnesian limestone however appears to cover the major part of this same area and would amount to a large resource.

The drilling programme was restricted to King's property but it is probable that a similar situation exists on neighbouring properties with respect to overburden thickness which suggests that the prospect of locating an economically minable dolomite resource in this licence is not good.

The magnesian limestone from BH R10 (see Appendix). contains on average 8% MgO which corresponds to a mineral composition of 62% limestone and 38% dolomite (on the assumption that all the MgO is present in the form of dolomite and that the dolomite contains no free calcite) As stated earlier in this report, there is a large resource of this material but no market exists for it at present.

So far as is known, the occurrence is unique Specimens are being cut and polished for appraisal as a decorative stone.

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EL 33/90 Analysis of the samples from BHs TP1,2,4 &5 indicates a mineral composition of 89% dolomite and 11% calcite.

The borehole samples were analysed in the as received condition and after jet washing (Appendix).

The following tabulation shows the percentage beneficiation that was obtained:

BH No.	Depth (m)	CaO	MgO	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>
TP1	3-7	7	-	42	-	-	-
	7-11	1.5	2	33	22	10	-
	11-15	-	-	42	34	39	33
	15-18	3	2	16	7	6	-
TP2	2-6	-	-	83	16	20	-
	6-10	1	-	42	6	-	-
	14-17	1	-	-	-	-	-
TP4	2-6	1	2	58	44	-	-
	6-10	-	-	-	12	-	-
	10-13	-	-	47	12	20	50
	13-17	-	-	82	22	40	50
TP5	2-4	-	-	87	18	32	66
	4-7	-	-	78	19	18	-
Average:		1	-	51	16	14	19

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—: no change or a slight increase.

Significant beneficiation was achieved especially in silica but there are some inconsistencies.

TP3 was sited on an ironstone deposit of around 200m diameter. It drilled through 2m of ironstone and passed into dolomite. It was not possible to drive PVC casing through the ironstone and the hole was therefore abandoned due to sample contamination. The drillings were pan concentrated in the field and fire assayed.

The result was negative. (Appendix)

PROPOSED EXPLORATION 1996-1997

EL31/90

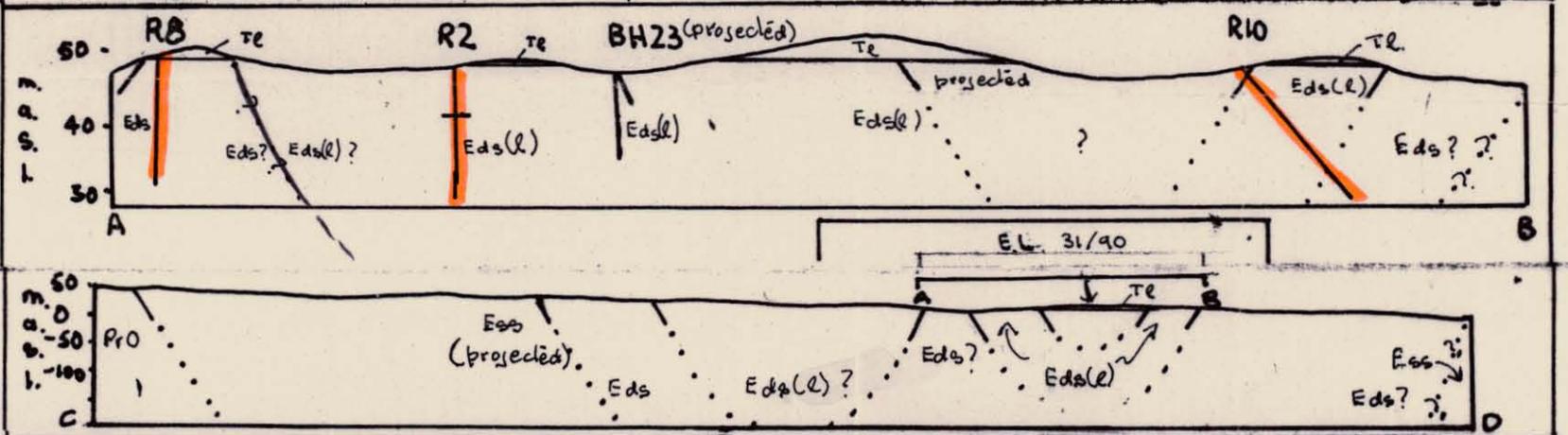
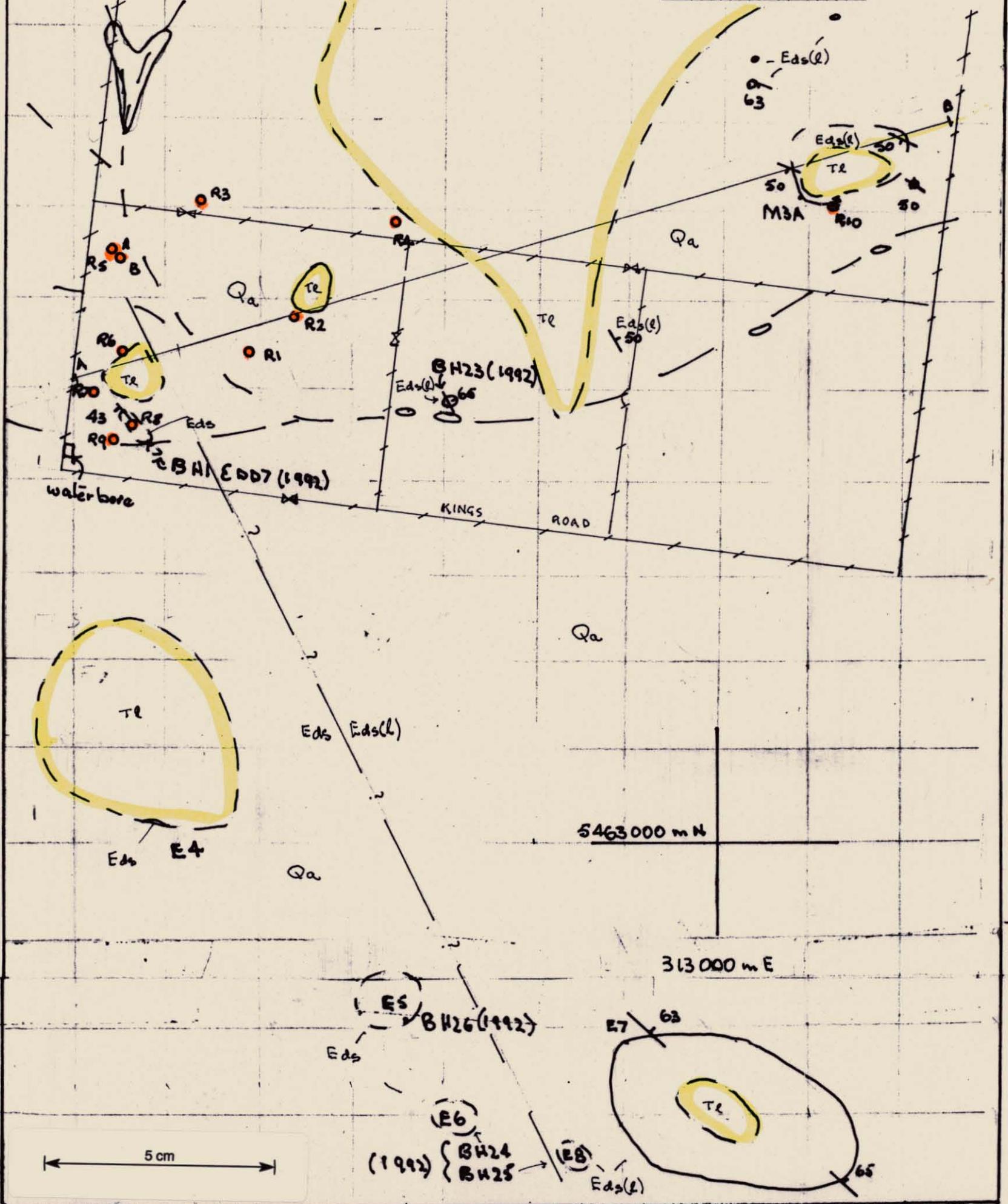
Further exploration of the magnesian limestone would only be warranted if the material could be marketed either as an industrial mineral or dimension stone. These matters are currently being addressed and will continue during 1996-1997.

A limited drilling programme will be carried out in the neighbouring properties to the west and south of King's to determine overburden thickness over dolomite.

EL33/90 The hammerdrilling programme will be resumed along prepared accesses to the southern part of the licence. If possible this will be extended into the, as yet, unexplored 2 S.Km. of State Forest on the southern boundary of the licence.



BOREHOLE LOCATION MAP



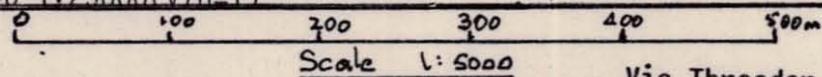
LEGEND

- O - - Watercourse
- + + + Fence & Gate
- 63 Strike & Dip of Beds (facing not Known)
- R1-R10 Hammerdrill Holes (1996)

C-A-B-D Cross Sections:  
 A-B 1:5000 (V/H=5)  
 C-D 1:25000 (V/H=1)

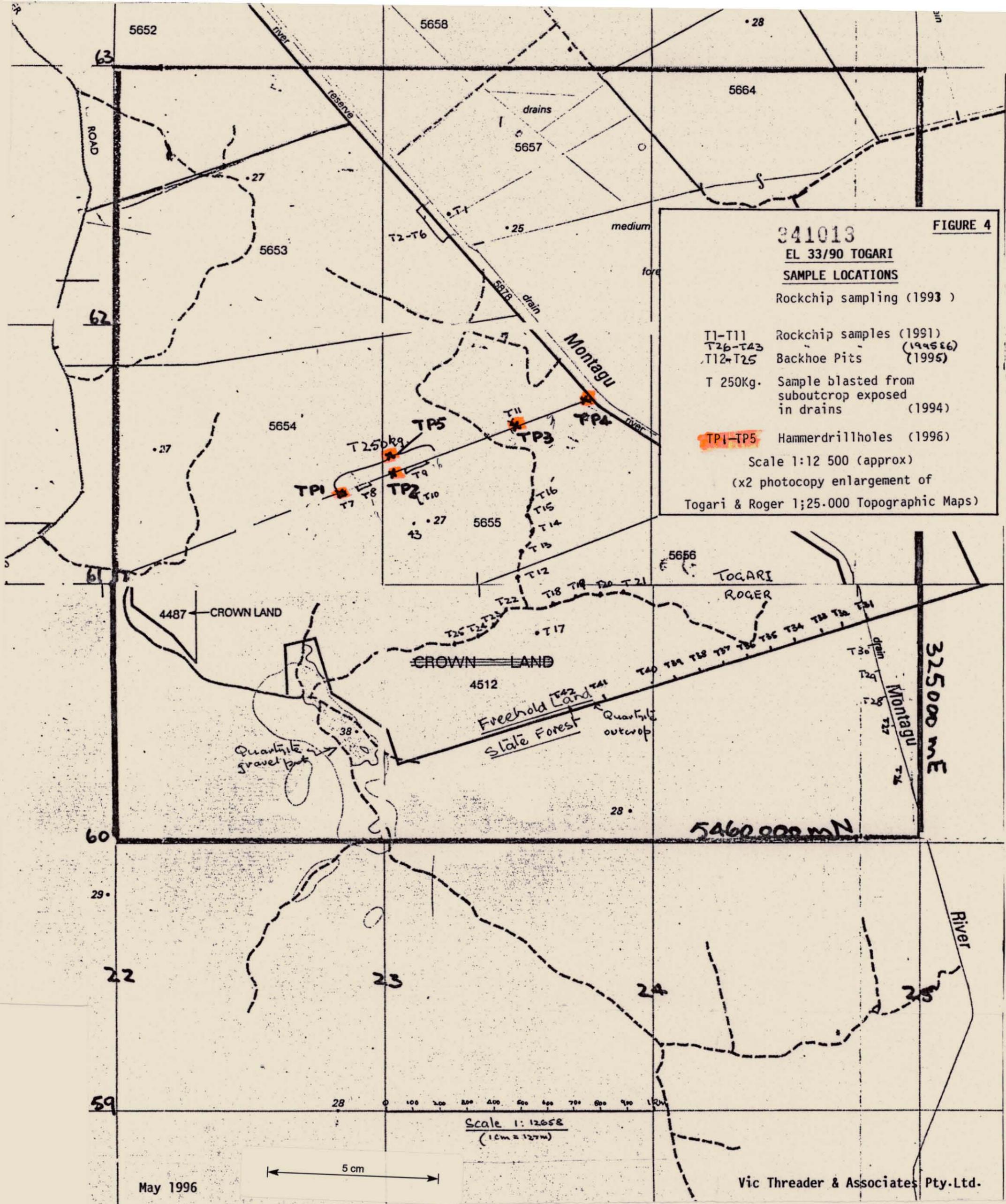
(---)	Outcrop
Qa	Quaternary alluvium etc.
Tb	Tertiary basalt
Tl	Tertiary limestone
Eds	Smithton Dolomite; Eds(l) magnesian limestone
Ess	Crimson Creek Beds
Pro	Proterozoic beds (Rocky Cape Group)

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May 1996

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**FIGURE 4**

**341013**  
**EL 33/90 TOGARI**  
**SAMPLE LOCATIONS**  
 Rockchip sampling (1993)

T1-T11	Rockchip samples (1991)
T26-T43	Backhoe Pits (1995)
T12-T25	Backhoe Pits (1995)
T 250Kg.	Sample blasted from suboutcrop exposed in drains (1994)
<b>TP1-TP5</b>	<b>Hammerdrillholes (1996)</b>

Scale 1:12 500 (approx)  
 (x2 photocopy enlargement of  
 Togari & Roger 1:25.000 Topographic Maps)

May 1996

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341014

APPENDIX

AMG COORDINATES OF BOREHOLES IN ELs 31/90 & 33/90

BH No.	metres E	metres N	BH No.	metres E	metres N
1	312 400	5 463 440	25	312 690	5 462 930
2	400	490	26	750	700
3	640	550	DD 1	700	3 940
4	600	540	2	3 000	4 000
5	610	610	3	940	3 800
6	700	720	4	680	510
7	690	860	5	980	940
8	630	4 010	6	2 980	860
9	660	3 930	7	400	460
10	180	4 300	R 1	490	540
11	300	300	2	540	580
12	440	350	3	440	710
13	610	130	4	650	680
14	770	3 920	5	340	650
15	880	930	6	350	540
16	880	900	7	320	490
17	880	850	8	360	460
18	920	970	9	340	440
19	930	950	10	313	710
20	900	770	T 1	322 420	5 461 350
21	810	730	2	3 020	430
22	770	620	3	490	600
23	730	470	4	750	700
24	750	2 650	5	030	490

## EL31/90 (REDPA)-DRILLING LOGS-APRIL 1996

BH No	DEPTH (m)		THICKNESS(m)	LOG
	From	To		
R1	0	10.00	10.00	Red-brown clay
	10.00	13.00	3.00	Hard bottom.Hole blew
out at contact.No sample return.				
R2	0	7.00	7.00	Red brown clay
	7.00	20.00		Mostly dark grey (limestone)
with fewer light grey (dolomite) rock chips.				
Struck water at 7m.PVC casing to 7m.Could not case bottom				
2m.of overburden due to hole collapse.Poor sample				
recovery and all samples were contaminated.Washed samples				
have been prepared but not analysed.				
Sample No.s: 7-9m.(1),13-14m.(2),14-15m.(3),15-16m.				
(4),16-17m.(5),17-18m.(6),18-19m.(7),19-20m.(8).				
R3	0	6.00	6.00	Red-brown clay
	6.00	12.00	6.00	Wet hole.No sample
return.Hole aborted.				
R4	0	13.50	13.50	As above.
R5a	0	6.00	6.00	Red brown clay.Hole
blew out at bedrock contact.Hole redrilled.				
R5b	0	6.00	6.00	As above.
	6.00	6.10	0.10	Grey dolomite.
	6.10	13.00	6.90	Red brown clay.
Hole aborted.				
R6	0	1.00	1.00	Discoloured grey
	1.00	3.00	2.00	dolomite.
	3.00	4.00	1.00	Grey dolomite
dolomite.				
	4.00	10.00	6.00	Discoloured grey
Cavity. Hole aborted.				
Bh6 was collared in outcrop.				
Sample Nos.:1-2m.(1),2-3m.(2).				
R7	0	4.00	4.00	Light grey dolomite.
	4.00	5.00	1.00	Light brown sand.
	5.00	10.00	5.00	Light grey dolomite.
	10.00	14.00	4.00	Light brown
dolomite.Hole aborted. BH7 was collared in outcrop				
Sample Nos.:0-14m.(1-14).				
R8	0	2.00	2.00	Light grey dolomite.
	2.00	3.00	1.00	Discoloured grey
dolomite				
	3.00	5.00	2.00	Clay (No sample).
dolomite				
	5.00	6.00	1.00	Discoloured grey
dolomite.				
	6.00	9.00	3.00	Light grey dolomite.
	9.00	10.00	1.00	Discoloured grey
dolomite.				
	10.00	11.00	1.00	Cavity-Brown water.
BH8 was collared in outcrop.				
Sample Nos.:0-3m.(1-3),5-10m(4-8).				
R9	0	10.00	10.00	Red brown clay.Some
dolomite chips at bottom of hole.Hole aborted.				
R10	0	20.00	20.00	Mostly dark grey rock
chips (limestone) with lesser amount of light grey rock				
chips(dolomite).BH R10 collared in outcrop angled at-60°				
in a direction of 020°M.				
Sample Nos.:0-20m.(1-20).				

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EL 33/90 TOGARI

HAMMERDRILL BORELOGS APRIL 1996

No.	DEPTH (m.)	DESCRIPTION	COLOUR	DRILLING TIME minutes/m.
TP1.	0-2 2-18	overburden dolomite	L.grey- L.brown	12 increasing to 15 at B.O.H
TP2	0-2 2-17	overburden dolomite	as above	13 all samples contained charcoal fragments, <1mm.-1cm.
TP3	0-2 2-3.5	ironstone dolomite	(sample was pan concentrated on site for fire assay) L.grey	(hole was aborted due to difficulty in casing off the ironstone from contaminating the sample).
TP4	0-2 2-10 10-17	overburden dolomite "	white brown (water	11 intersected at 10m.-Water level in Montagu River, 20m. east of borehole, is 2m. below borehole collar)
TP5	0-2 2-7	overburden dolomite	L.grey- L.brown	9 (Hole was stopped at end of day and packed up ready for excavator assisted exit from site.)

TP1 to 5 were still in dolomite at bottom of hole.

EL 33/90 (Togari)

Percussion Holes	CaO	MgO	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	P <sub>2</sub> O <sub>5</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	LOI
TP1 3-7m W	32.2	20.0	0.26	0.21	0.16	0.01	0.01	0.02	<0.1	<0.1	48.1
TP1 3-7m U	32.4	19.8	0.45	0.17	0.13	0.01	<0.01	0.01	<0.1	<0.1	48.1
TP1 7-11m W	32.3	20.0	0.16	0.07	0.09	0.01	<0.01	0.02	<0.1	<0.1	47.2
TP1 7-11m U	32.8	20.4	0.24	0.09	0.10	0.01	0.02	0.02	<0.1	<0.1	47.1
TP1 11-15m W	30.6	19.5	3.63	0.60	1.36	0.08	<0.01	0.06	<0.1	0.38	44.5
TP1 11-15m U	29.4	18.4	6.30	0.91	2.23	0.12	0.06	0.09	<0.1	0.62	42.9
TP1 15-18m W	31.8	19.6	0.81	0.12	0.31	0.02	0.03	0.02	<0.1	0.06	48.5
TP1 15-18m U	32.9	20.1	0.96	0.13	0.33	0.02	0.01	0.02	<0.1	0.05	47.7
TP2 2-6m W	32.1	20.0	0.20	0.21	0.08	0.01	0.02	0.01	<0.1	<0.1	46.6
TP2 2-6m U	32.0	20.0	1.15	0.25	0.10	0.01	0.01	0.01	<0.1	<0.1	47.0
TP2 6-10m W	32.9	19.3	0.46	0.15	0.18	0.01	0.02	0.02	<0.1	<0.1	47.7
TP2 6-10m U	33.0	19.2	0.79	0.16	0.16	0.02	0.01	0.02	<0.1	<0.1	47.1
TP2 10-14m W	32.9	19.6	0.349	0.09	0.13	0.01	<0.01	0.02	<0.1	<0.01	47.9
TP2 10-14m U	32.9	19.6	0.64	0.11	0.11	0.01	0.03	0.01	<0.1	<0.01	45.6
TP2 14-17m W	33.0	19.5	0.16	0.06	0.07	0.01	<0.01	0.02	<0.1	<0.01	48.0
TP2 14-17m U	33.3	19.3	0.15	0.06	0.04	0.01	<0.01	0.02	<0.1	<0.01	47.0
TP4 2-6 m W	32.4	18.6	0.11	0.14	0.06	0.01	<0.01	0.01	<0.1	<0.01	47.5
TP4 2-6 m U	32.8	19.0	0.26	0.25	0.06	0.01	0.03	0.01	<0.1	<0.01	48.6
TP4 6-10m W	33.2	19.4	0.23	0.07	0.04	0.01	0.03	0.01	<0.1	<0.01	48.9
TP4 6-10m U	32.9	18.8	0.21	0.08	0.04	0.01	<0.01	0.01	<0.1	<0.01	48.1
TP4 10-13m W	33.2	19.3	0.31	0.15	0.16	0.01	<0.01	0.01	<0.1	<0.01	49.7
TP4 10-13m U	33.0	19.2	0.59	0.17	0.20	0.02	<0.01	0.01	<0.1	<0.01	48.1
TP4 13-17m W	32.3	19.7	0.18	0.35	0.13	0.01	0.01	0.02	<0.1	<0.01	47.6
TP4 13-17m U	32.0	19.5	0.98	0.45	0.22	0.02	<0.01	0.01	<0.1	<0.01	47.9
TP5 2-4 m W	32.5	19.6	0.29	0.13	0.17	0.01	<0.01	0.01	<0.1	0.01	49.1
TP5 2-4 m U	31.9	19.1	2.23	0.16	0.25	0.03	<0.01	0.01	<0.1	0.01	46.3
TP5 4-7 m W	32.6	19.7	0.17	0.13	0.09	0.01	<0.01	0.02	<0.1	<0.01	47.2
TP5 4-7 m U	32.5	19.7	0.79	0.16	0.11	0.01	<0.01	0.01	<0.1	<0.1	46.6
<b>SURFACE SAMPLES</b>											
TP 1 " sample	32.8	19.3	0.26	0.11	0.12	0.01	0.06	0.02	<0.1	0.01	45.8
TP 2 " "	33.3	19.3	0.47	0.11	0.09	0.01	0.08	<0.01	<0.1	0.01	45.6
TP 4 " "	33.4	18.9	0.10	0.04	0.05	0.01	0.04	0.01	<0.1	<0.01	48.3
43	32.8	20.0	0.14	0.11	0.08	0.01	0.04	0.01	<0.1	<0.01	45.7
42	31.8	20.2	0.10	0.31	0.04	0.01	0.03	0.02	<0.1	<0.01	44.1

U = Unwashed  
W = Washed

NB Samples crushed in mild steel mills.

EL 31/90 (Redpa)

PERCUSSION	CaO	MgO	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	Al <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MnO	P <sub>2</sub> O <sub>5</sub>	Na <sub>2</sub> O	K <sub>2</sub> O
R 10										
0-5 M	47.8	6.5	1.00	0.12	0.20	0.02	0.04	0.02	<0.1	0.04
5-10 M	45.1	9.0	0.52	0.07	0.12	0.01	<0.01	0.01	<0.1	0.02
10-15 M	49.7	5.5	0.55	0.03	0.06	0.01	0.02	0.01	<0.1	0.01
15-20 M	43.9	11.7	0.47	0.09	0.16	0.01	0.03	0.01	<0.1	0.03

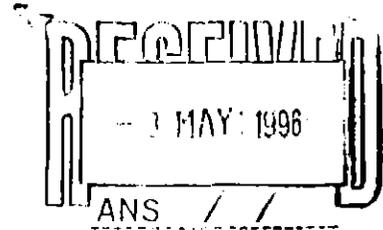
NB Samples crushed in mild steel mills.

**MATERIALS SERVICES**  
Certified to AS 3901 / ISO 9001PO Box 338  
TORRENSVILLE PLAZA SA 5031Telephone: (08) 416 5200  
Facsimile: (08) 234 2760

30 April 1996

Mineral Holdings Australia Pty Ltd  
2nd Floor, 135 Collins Street  
MELBOURNE VIC 3000

Attention: Mr Michael Thomas

**REPORT 96L3474**

CLIENT REFERENCE

Faxed letter of 4 April 1996

TITLE

Brightness and Colour Measurement, Dolomite

SAMPLE IDENTIFICATION

King Dolomite

WORK REQUESTED

Measurement of brightness and Hunter (L,a,b)  
colour factors, on -20 $\mu$ m material.

Investigating Officer(s)

Robert J Allen and Liana Hunt

John A Lackey  
Chief Materials Scientist  
Materials Services

mp

## 1. INTRODUCTION

Mr Michael Thomas, of Mineral Holdings Australia Pty Limited, requested that Amdel Limited measure the brightness and colour of the -20 $\mu$ m fraction of a sample of King dolomite.

## 2. PROCEDURE

The sample of dolomite, as received, was pulverised using a zirconia mill. The fine dolomite was fractionated by sedimentation in deionised water to obtain a fine fraction, nominally -20 $\mu$ m. This fine material was dried and milled in a high speed air-swept mill before pressing to form a disc for brightness measurements, using the Zeiss Elrepho reflectance photometer.

The brightness was determined at 457nm using the R457 filter. The yellowness was determined from the higher reflectance at 570nm, using the R57 filter. Measurements were made on two pressed discs and the results averaged. The method is based on the Technical Association for the Pulp and Paper Industry (TAPPI) standard, T534 om-86 yielding ISO brightness values.

The colour measurements were made to the (L,a,b) system, using the Minolta Chroma Meter Model CR-300, and the manufacturer's instructions for sample presentation in the granular materials attachment. The results were the average of five measurements.

## 3. RESULTS

The results were as follows:-

Sample	Brightness (R457)%	Yellowness (R457-R57)%	Colour		
			L	a	b
King dolomite, -20 $\mu$ m	78.6	6.25	71.7	-0.26	+3.97

**MINERAL CHEMISTRY**

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**KINGSTON BEACH TAS 7050**

**FINAL ANALYSIS REPORT****Your Order No:****Our Job Number : 6AD1936****Sample rec'd : 13/05/96****Results reported : 17/05/96****No. of samples : 1****Report comprises a cover sheet and pages 1 to 1**

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

**Approved Signature:**

**for**  
**Alan Ciplys**  
**Manager - Mineral Chemistry**  
**AMDÉL LABORATORIES ADELAIDE**

**Report Codes:**

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

**Distribution Codes:**

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



341022

Job: 6AD1936  
O/N:

Final

ANALYTICAL REPORT

SAMPLE	Sam_wt	Au	Pt	Pd
PAN CON MHA P/L	4.60	0.05	<0.25	<0.05

UNITS	grams	ug	ug	ug
DET.LIM	0.01	0.05	0.25	0.05
SCHEME	FA3	FA3	FA3	FA3