

FINAL REPORT E.L. 10/79

MINERAL HOLDINGS AUSTRALIA PTY. LTD.

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85-2431

MINERAL HOLDINGS AUSTRALIA PTY. LTD.

FINAL REPORT EXPLORATION LICENCE 10/79

MICROFILMED

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INTRODUCTION:

Exploration Licence 10/79 was granted on 28 September 1979 and surrendered on 28 September 1984. This final report should be read in conjunction with all previously submitted reports which will not be repeated here.

During the course of the E.L., Mineral Holdings Australia Pty. Ltd., has conducted extensive sampling of dolomite rocks and drilled 5 percussion drill holes (ref: 1981 report by Longworth and McKenzie) prior to entering into a joint venture with CRA Exploration Pty. Ltd.,. This joint venture ran from April 1982 to August 1983. During this period nine percussion/diamond drill holes were put down after a programme of mapping and sampling. A report on this programme has been submitted to the Department of Mines (Period to 30 June, 1983), however a copy is attached for reference.

Since the CRA joint venture, Mineral Holdings Australia Pty. Ltd., has conducted further sampling with an emphasis on gold mineralization. The Company has also sought markets for the dolomite.

EXPLORATION WORK:

All exploratory work up to the withdrawal of CRA Exploration Pty. Ltd., has already been fully documented in previous reports, and is summarised in the accompanying CRA report.

With the discovery by Mineral Holdings Australia Pty. Ltd., of low concentrations of gold in an adjacent Exploration Licence, it was decided to submit various dolomite samples from E.L. 10/79 for gold and platinum. The sample numbers refer to the same numbers in the accompanying CRAE Pty. Ltd., report.

Two of the samples contained high gold values:

T-C R 83-20 u

3.09 g/t Au over 5 metres of chip sampling and
4.06 g/t Au over 15 metres of chip sampling.

These approximate outcrop locations were re-sampled and returned results of 0.04 g/t Au.

CONCLUSIONS:

A large resource of dolomite exists within the Exploration Licence as outlined in the accompanying CRAE Pty. Ltd., report. Re-sampling of the dolomite has indicated measurable and significant grades of gold also occur.

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D. DIR.	A.G.	C.C.	E.G.	LAB. NO.	DATE
7 MAY 1985			E & I L		
DEPT. OF MINES			REF. No. 4677/85		

SAMPLES TAKEN IN EL.10/79 (EL.47/84)

EL.10/79

DATE	AREA No.	DESCRIPTION	PREPARATION OF SAMPLE	ANALYSED BY & METHOD	REMARKS	GRAM / TONNE	
						PT.	AU.
11/12/84	1055654	Ground CRA residue of dolomite sample	CRA arranged for ANALABS OF Adelaide to mill 100 gram sample	Fire Assay by Johnson Matthey	(CRA Report) Endeavoured to re-sample on 24/1/85 with 0.04 gr/t Au Mines Dept. Results	0.22	3.09
"	1055655	"	"	"	"	0.46	4.06
14/ 1/85	1055653	"	"	Acqua Regia (PMI) by Fox Laboratories	CRA Report Residue sample	--	0.06
"	1055656	"	"	"	"	0.05	< 0.005
"	1055657	"	"	"	"	0.03	< 0.005
"	1055658	"	"	"	"	0.24	< 0.007
16/ 1/85	00961	Smithton Quarry Dolomite	Random hand grab sample of dolomite 2 kilograms	Acqua Regia by Fox Laboratories	Chip Lode sample that was crushed.	0.06	B.L.D.
4/1/84	1055701	Ground residue CRA of dolomite sample		Fox Laboratories	SM-1	BLD	0.037
4/1/84	1055704	" " "		Fox Laboratories	SM-7	0.007	0.025
4/1/84	1055706	" " "		Fox Laboratories	SM-8	0.016	0.016
4/1/84	1055707	" " "		Fox Laboratories	SM-8	BLD	0.025
4/1/84	1055708	" " "		Fox Laboratories	SM-9	BLD	0.027
4/1/84	1055710	" " "		Fox Laboratories	SM-9	BLD	0.020
	1055702				SM-2 Comp, assay		Au + Pt < 0.2

DOLOMITE

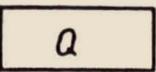
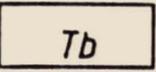
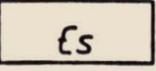
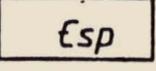
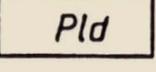
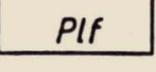
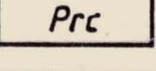
RECENT DEPOSITS COVER MUCH OF THE GEOLOGY ON EITHER SIDE OF THE VOLCANIC BELT. HOWEVER, LIMITED OUTCROP INFORMATION INDICATES THAT THE SMITHTON DOLOMITE IS FOLDED ABOUT N-S TRENDING AND ENE TRENDING FOLD AXES TO THE EAST OF EL.10/79. THE DOLOMITES TO THE WEST HOWEVER, DIP REGULARLY TO THE WEST.

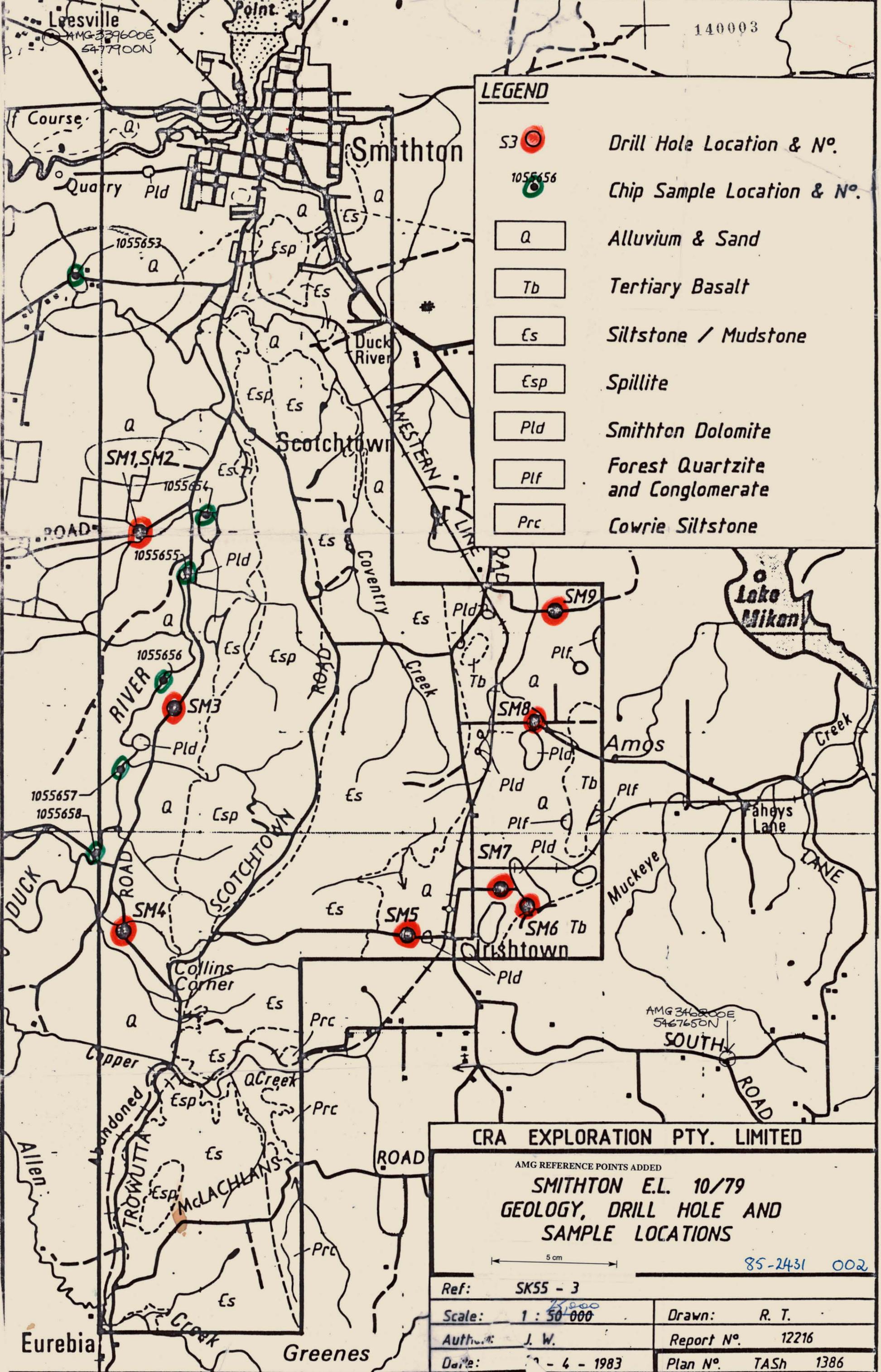
THE DOLOMITE OUTCROPS ON EITHER SIDE OF THE CENTRAL VOLCANIC BELT DIFFER MARKEDLY. IN THE WEST, THE DOLOMITE IS A GREY-YELLOW, FINE GRAINED DOLOMITE WITH MINOR SLIGHTLY SHALEY PARTINGS, THOUGH MINOR SILICIFIED DOLOMITE BRECCIA CROPS OUT AT THE JUNCTION OF GEALES CREEK AND THE DUCK RIVER.

IN THE EAST, THE DOLOMITE IS PROBABLY BETTER DEFINED AS A DOLOMITIC CHERT. THE ROCK VARIES IN COLOUR FROM BLACK TO GREY-WHITE AND APPEARS TO BE A HIGHLY BRECCIATED, VERY FRIABLE SILICEOUS DOLOMITE, WHOSE BEDDING HAS LARGELY BEEN DESTROYED. THE SILICIFICATION IS APPARENTLY A SECONDARY PROCESS AND MAY HAVE BEEN INTRODUCED AS A RESULT OF BRECCIATION.

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LEGEND

- S3  Drill Hole Location & No.
- 1055656  Chip Sample Location & No.
-  Alluvium & Sand
-  Tertiary Basalt
-  Siltstone / Mudstone
-  Spillite
-  Smithton Dolomite
-  Forest Quartzite and Conglomerate
-  Cowrie Siltstone



CRA EXPLORATION PTY. LIMITED

AMG REFERENCE POINTS ADDED

SMITHTON E.L. 10/79
GEOLOGY, DRILL HOLE AND
SAMPLE LOCATIONS

5 cm

85-2431 002

Ref:	SK55 - 3	Drawn:	R. T.
Scale:	1 : 50 000	Report No.:	12216
Author:	J. W.	Plan No.:	TASH 1386
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