

RESULTS OF THE EXPLORATION
PROGRAMME CARRIED OUT IN THE
CORMEL FARM AREA
KING ISLAND
1969

Results of Exp programme Cormel Farming Area
King Is. During 1969 - Microscopic analysis

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NARACOOPA RUTILE LIMITED

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023002

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MICROFILMED

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RESULTS OF THE EXPLORATION PROGRAMME
CARRIED OUT IN THE CARMEL FARMING AREA
KING ISLAND, TASMANIA, DURING 1969.

Introduction

The Carmel Farming Area lies between the northern and southern sections of EL 9/69 on the east coast of King Island, Tasmania.

As part of the current exploration programme of the Naracoopa Area, three lines, 131, 147 and 163, 1,600 feet apart, were drilled across the Carmel Farming Area during November and December 1969. Line 115, along the southern boundary of the area, was drilled during an earlier exploration programme in February 1969.

Results of Exploration

Details of the logs for lines 131, 147 and 163 and of the assay results for all four lines are included. The assays are plotted on the accompanying map. The results of the exploration work are summarised in the following table:-

<u>Line No.</u>	<u>No. of Holes</u>	<u>Average Depth</u> <u>feet</u>	<u>Average %</u> <u>H.M.</u>
115	18	20	0.20
131	15	14	0.20
147	27	5.50	0.20
163	15	7	0.10

There is a slight increase in the grade of heavy mineral to the south and west.

Future Exploration Programme

A further exploration programme of 185 holes is planned for the area, if possible.

It is suggested that lines 115 and 147 should now be extended westwards across the Carmel Farming Area with holes drilled at four hundred foot spacings, totalling ninety and seventy holes, respectively.

A new line, number 95, should be drilled within the area, two thousand feet south of line 115. The hole spacings would be four hundred feet totalling twenty-five holes.

Conclusion

Only on the completion of the new exploration programme can the true potential of the area be assessed.

Map
Plate XI Assay Results
Carmel Farming Areas

TABLE ILINE 115

<u>Hole</u>	<u>Depth</u> <u>feet</u>	<u>% H.M.</u>
1025	10	>0.1
1075	15	>0.1
1125	20	>0.1
1175	75	>0.1
1225	22	>0.1
1325	20	>0.1
1425	10	>0.1
1525	15	>0.1
1625	15	>0.1
1725	30	>0.1
1825	25	>0.1
1925	20	0.1
2025	20	0.1
2125	20	0.7
2225	25	0.2
2325	10	0.2
2425	8	0.2
2525	15	1.4

TABLE IILINE 131

<u>Hole</u>	<u>Depth</u> <u>feet</u>	<u>Base</u>	<u>Colour</u>	<u>W. T.</u> <u>feet</u>	<u>Per Cent</u> <u>H. M.</u>
0	13	S.	Y/Gr/Br	10	0.3
1	17	H.S.	Wh/Y/Gr/Br	16	0.1
2	14 $\frac{1}{2}$	H.S.	Wh/Br		0.2
3	11	H.S.	Wh		0.3
4	14	H.S.	Gr/Wh/Br	10	0.1
5	15	H.S.	Gr/Wh	11	0.1
6	15	S.	Gr/Wh/Br	11 $\frac{1}{2}$	0.1
7	16	S.	Gr/Wh/Br	13	0.1
8	13	H.S.	Wh/Gr	11	0.1
9	6	H.S.	Br	3	0.1
10	25	S.	Wh/Gr	22	0.3
11	24	S.	Wh/Gr	23	0.2
12	20	S.	Wh/Gr	16	0.3
13	5	S.	Wh	5	0.3
14	4	S.	Wh/Gr	2	0.3

Line completed to the Lagoon

LINE 131Hole 0

0-5'	Yellow and grey sand	0.1
5-10'	Brown Sand	0.2
10-13'	Brown sand	
W.T.	10'	
Stopped 13'. Running in.		

Hole 1

0-5'	White and grey sand	0.1
5-10'	Grey sand	0.1
10-15'	Brown sand	0.1
15-17'	Coarse brown sand	0.1
W.T.	16'	
Stopped 17'. Hard Strata.		

Hole 2

0-5'	White sand	0.3
5-10'	White sand	0.1
10-14½'	Brown sand	0.1
W.T.		
Stopped 14½'. Hard Strata.		

Hole 3

0-5'	White sand	0.5
5-10'	White sand	0.3
10-III'	Coarse sand and quartz	0.1
Stopped III' by large quartz particles.		

Hole 4

0-5'	Grey sand	0.2
5-10'	White sand	0.1
10-14'	Coarse brown sand and quartz	0.1
W.T.	10'	
Stopped 14'. Casing will not penetrate.		

Hole 5

0-5'	Grey and white sand	0.1
5-10'	White sand	0.1
10-15'	Coarse sand and quartz	0.1
W.T.	11'	
Stopped 15' coarse quartz particles.		

Hole 6

0-5'	Grey sand	0.1
5-10'	White sand	0.1
10-15'	Brown sand	0.2
W.T.	11½'	
Stopped 15'. Running in.		

Hole 7

0-5'	Grey sand	0.2
5-10'	White sand	0.1
10-15'	Brown sand	0.2
15-16'	Brown sand	0.1
W.T.	13'	
Stopped 16'.		

Hole 8

0-5'	White and grey sand	0.2
5-10'	White sand	0.1
10-13'	Coarse sand and quartz	0.1
W. T.	11½'	
Stopped 13'		

Hole 9

0-5'	Brown sand	0.1
5-6'	Very coarse sand and quartz	0.1
W.T.	3'	
Stopped 6' - Large pieces of quartz.		

Hole 10

0-5'	White and grey sand	0.3
5-10'	White sand	0.4
10-15'	White sand	0.3
15-20'	White sand	0.2
20-25'	White sand	0.3
W.T.	22'	
Stopped 25'. Running in.		

Hole 11

0-5'	White and grey sand	0.2
5-10'	White sand	0.2
10-15'	White sand	0.3
15-20'	White sand	0.3
20-24'	White sand	0.2
W.T.	23'	
Stopped 24'. Running in.		

Hole 12

0-5'	White and grey sand	0.2
5-10'	White sand	0.3
10-15'	White sand	0.4
15-20'	White sand	0.3
W.T.	16'	
Stopped 20'. Running in.		

Hole 13

0-5'	White sand	0.3
W.T.	5'	
Stopped 5'. Running in.		

Hole 14

0-4'	White and grey sand	0.3
W.T.	2'	
Stopped 4'. Running in.		

Line completed to the Lagoon.

TABLE IIILINE 147

<u>Hole</u>	<u>Depth</u> <u>feet</u>	<u>Base</u>	<u>Colour</u>	<u>W.T.</u> <u>Feet</u>	<u>Per Cent</u> <u>H.M.</u>
0	14	C.R.	Gr/Br/Wh	12	2.1
1	21	H.S.	Gr/Wh	20	0.1
2	9	H.S.	Gr/Br	4	0.1
3	7	S.	Wh/Br	4	< 0.1
4	4	S.	Wh	2	0.1
5	4	S.	Gr	1	0.1
6	8	S.	Wh	3	0.1
7	7	H.S.	Gr/Br	4	0.1
8	5	S.	Gr	2	0.1
9	5				0.1
10	8				0.1
11	5				0.3
12	5				0.2
13	3				0.3
14	3				0.1
15	3				0.1
16	-				-
17	3				0.2
18	3				0.2
19	3				0.2
20	3				0.2
21	3				0.1
22	3				0.1
23	3				0.2
24	4				0.1
25	4				0.3
26	4				0.1

LINE 147Hole 0

0-5'	Grey and brown sand	2.1
5-10'	Grey and white sand	2.7
10-14'	Brown and white sand	1.7
W.T.	12'	
Stopped 14' Coffee rock.		

Hole 1

0-5'	Grey and white sand	0.2
5-10'	White sand	0.1
10-15'	Coarse sand	0.1
15-20'	Coarse sand and quartz	0.1
20-21'	Very coarse sand and large quartz pieces	
W.T.	20'	
Stopped 21' Pump only picking up water. Cannot penetrate.		

Hole 2

0-5'	Grey sand	0.1
5-0'	Brown sand	0.1
W.T.	4'	
Stopped 9'. Hard strata. Cannot penetrate.		

Hole 3

0-5'	White sand	0.1
5-7'	Brown sand	<0.1
W.T.	4'	
Stopped 7'. Running in.		

Hole 4

0-4'	White sand	0.1
W.T.	2'	
Stopped	4'. Running in.	

Hole 5

0-4'	Grey sand	0.1
W.T.	1'	
Stopped	4'. Running in.	

Hole 6

0-5'	White sand	0.1
5-8'	White sand	0.2
W.T.	3'	
Stopped	8'. Running in.	

Hole 7

0-5'	Grey sand	0.2
5-7'	Brown sand	0.1
W.T.	4'	
Stopped	7'. Hard strata. Cannot penetrate.	

Hole 8

0-5'	Grey sand and clay	0.1
W.T.	2'	
Stopped	5'. Running in.	

Hole 9

0-5'		0.1
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Hole 10

0-5'		0.2
5-8'		0.1

Hole 11

0-5' 0.3

Hole 12

0-5' 0.2

Hole 13

0-3' 0.3

Hole 14

0-3' 0.1

Hole 15

0-3' 0.1

Hole 16

No result

Hole 17

0-3' 0.2

Hole 18

0-3' 0.2

Hole 19

0-3' 0.2

Hole 20

0-3'

0.2

Hole 21

0-3'

0.1

Hole 22

0-3'

0.1

Hole 23

0-3'

0.2

Hole 24

0-4'

0.1

Hole 25

0-4'

0.3

Hole 26

0-4'

0.1

TABLE IVLINE 163

<u>Hole No.</u>	<u>Depth feet</u>	<u>Per Cent H.M.</u>
0	15	0.1
1	15	0.1
2	13	< 0.1
3	7	0.1
4	4	0.1
5	4	0.2
6	5	0.1
7	5	0.1
8	4	0.2
9	4	0.2
10	5	0.2
11	5	0.2
12	5	0.2
13	5	0.2
14	5	0.1

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LINE 163

Hole 0

0-5'	0.2
5-10'	0.1
10-15'	0.1

Hole 1

0-5'	0.1
5-10'	0.1
10-15'	0.1

Hole 2

0-5'	0.1
5-10'	0.1
10-13'	0.1

Hole 3

0-5'	0.1
5-7'	0.1

Hole 4

0-4'	0.1
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Hole 5

0-4'	0.2
------	-----

Hole 6

0-5'	0.1
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Hole 7

0-5'

0.1

Hole 8

0-4'

0.2

Hole 9

0-4'

0.2

Hole 10

0-5'

0.2

Hole 11

0-5'

0.2

Hole 12

0-5'

0.2

Hole 13

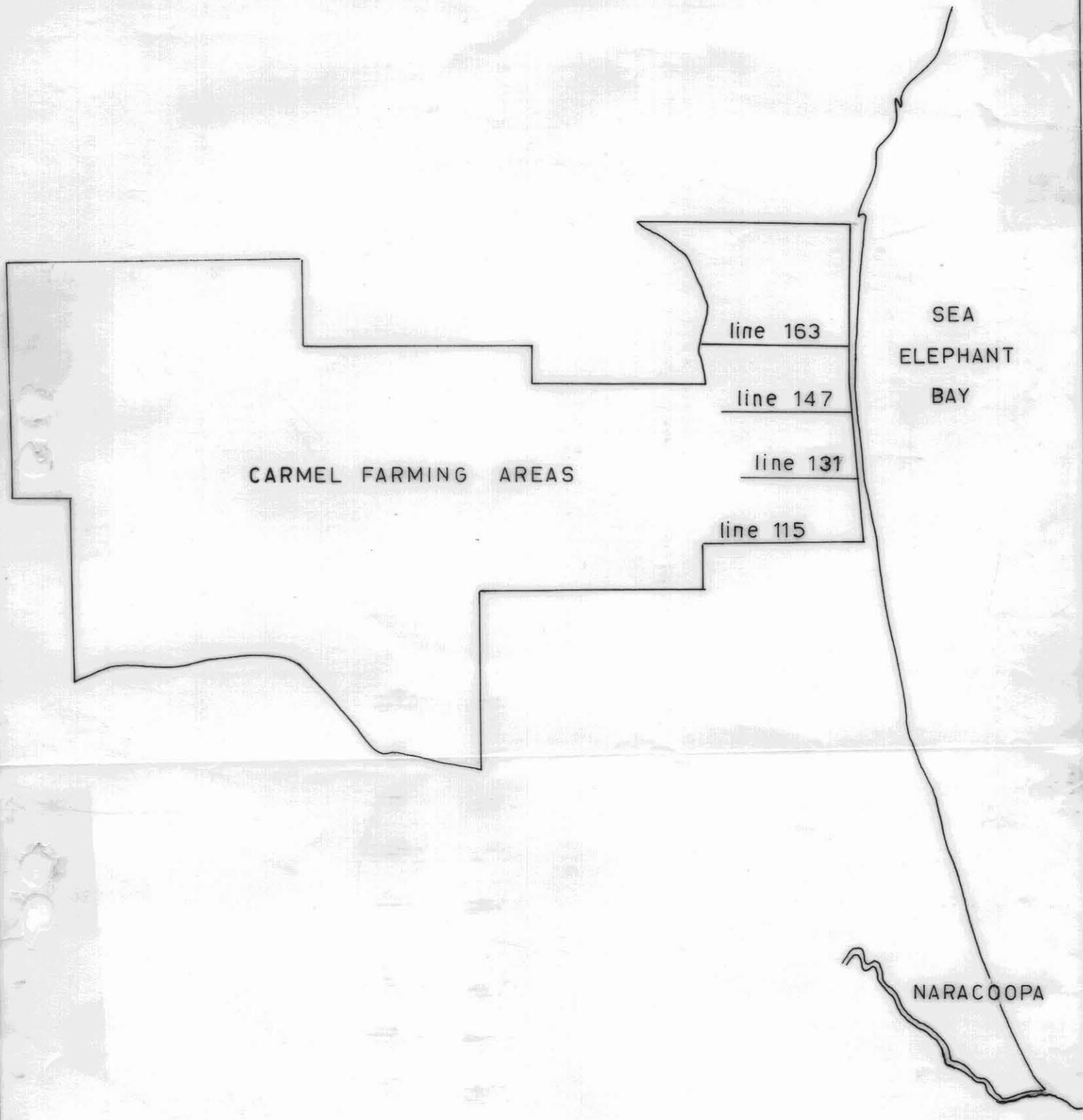
0-5'

0.2

Hole 14

0-5'

0.1



CARMEL FARMING AREAS

line 163

line 147

line 131

line 115

SEA
ELEPHANT
BAY

NARACOOPA

70-617

NARACOOPA RUTILE LTD.

CARMEL FARMING
AREAS

Kenneth McMahon & Partners Pty.Ltd.