

FINAL REPORT E.L. 3364

18th June, 1982
to
24th January, 1983

Licensee: A.O.G. Minerals Limited

Operator: Ashton Mining Limited

Sheet
Reference: Urapunga (SD53-10) 1:250,000

ASHTON MINING LIMITED
85 Eagle Street
Brisbane. 4000

February, 1983.

0283/62A

CONTENTS

		Page
SUMMARY	1
INTRODUCTION	1
EXPLORATION PROGRAM	2
CONCLUSIONS	3

FIGURES

Figure 1	Location E.L. 3364	opposite page 1
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PLANS

Plan 1	Sample Locations	back pocket
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APPENDICES

Appendix 1	Expenditure
Appendix 2	Results of Laboratory Examinations

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SUMMARY

A regional gravel sampling program was undertaken in E.L. 3364 at a density of one sample per 13.09 square kilometres. A total of 97 gravel samples were collected and the heavy mineral fractions examined for kimberlitic indicator minerals.

No indicator minerals were found and the licence was subsequently surrendered.

INTRODUCTION

Exploration Licence 3364 was granted to A.O.G. Minerals Limited on 18th June, 1982, for an initial period of twelve months. It covers an area of 1269.89 square kilometres and is on the Urapunga 1:250,000 sheet.

The target of exploration was diamonds and the principal exploration technique employed was regional gravel sampling. This report summarizes the results of the regional gravel sampling program undertaken during the period 18th June, 1982 to 24th January, 1983, which is the date of surrender of the licence.

A statement of expenditure is presented in Appendix 1.

EXPLORATION PROGRAM

Prior to the commencement of field work, gravel sample locations were plotted in the office on the Moroak, Chapman and Urapunga 1:100,000 sheets so that sample sites tested the available drainage at intervals of approximately five kilometres.

During the field program, individual sample sites were selected on the basis of the quality of the available heavy mineral traps in the vicinity of the preselected site, care being taken to sample the most suitable trap site. Helicopter was the most practical mode of transport as it had the advantage of ease of access and navigation and enabled the geologist to scan the area for suitable trap sites.

Once a suitable sample site was located, approximately 40 kg of gravel were gathered, sieved and the minus 4mm fraction collected for laboratory examination. Generally the minus 4mm samples weighed 25 - 30kg. The sample sites were accurately plotted in the field on a prepared 1:100,000 base plan. Within E.L. 3364 a total of 97 samples were collected corresponding to a sample density of one sample per 13.09 square kilometres. Sample locations are given in Plan 1.

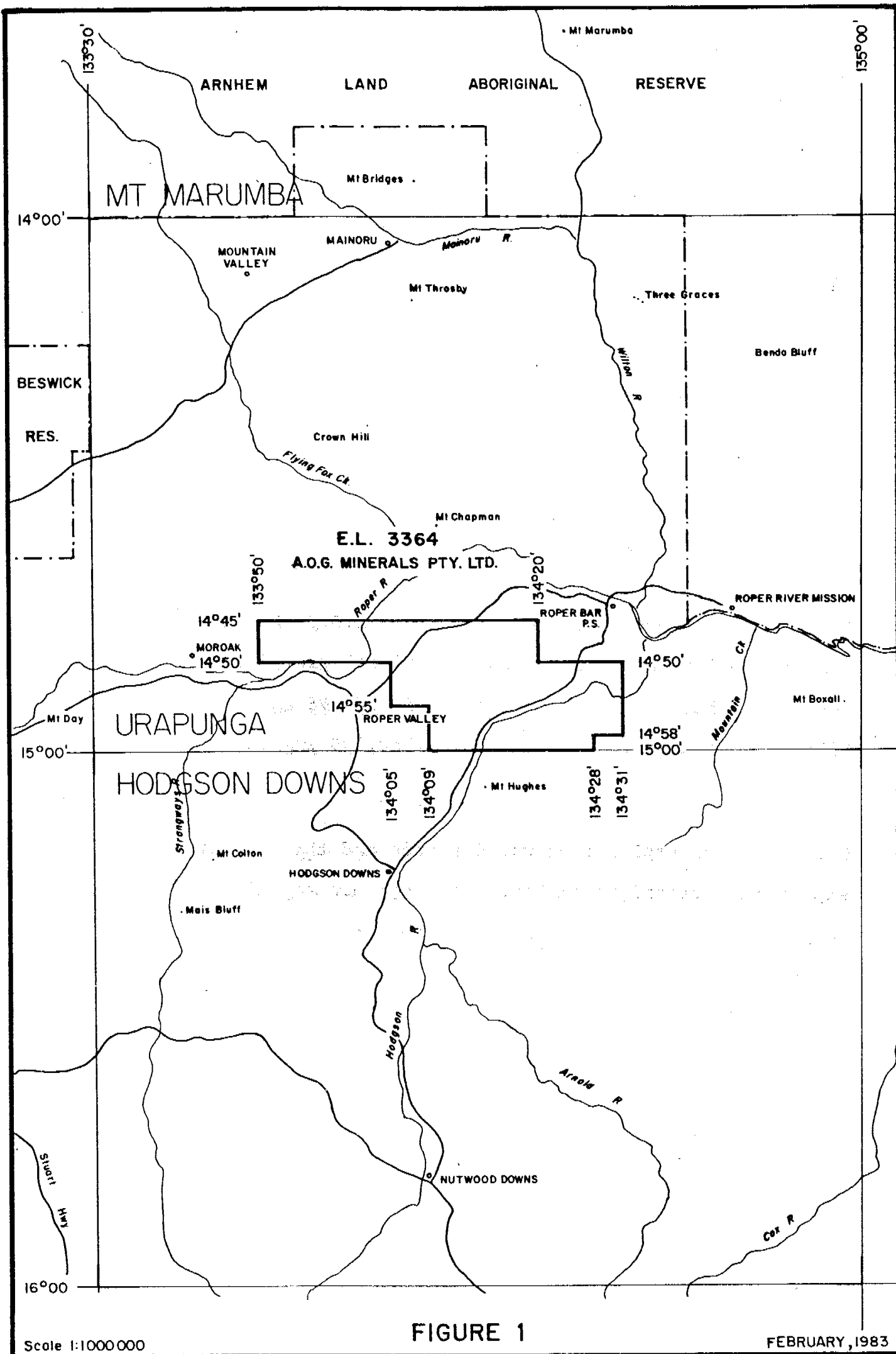
The samples were processed at the Ashton Mining Limited laboratory in Perth where they were concentrated by Wilfley Table and heavy liquid separation techniques.

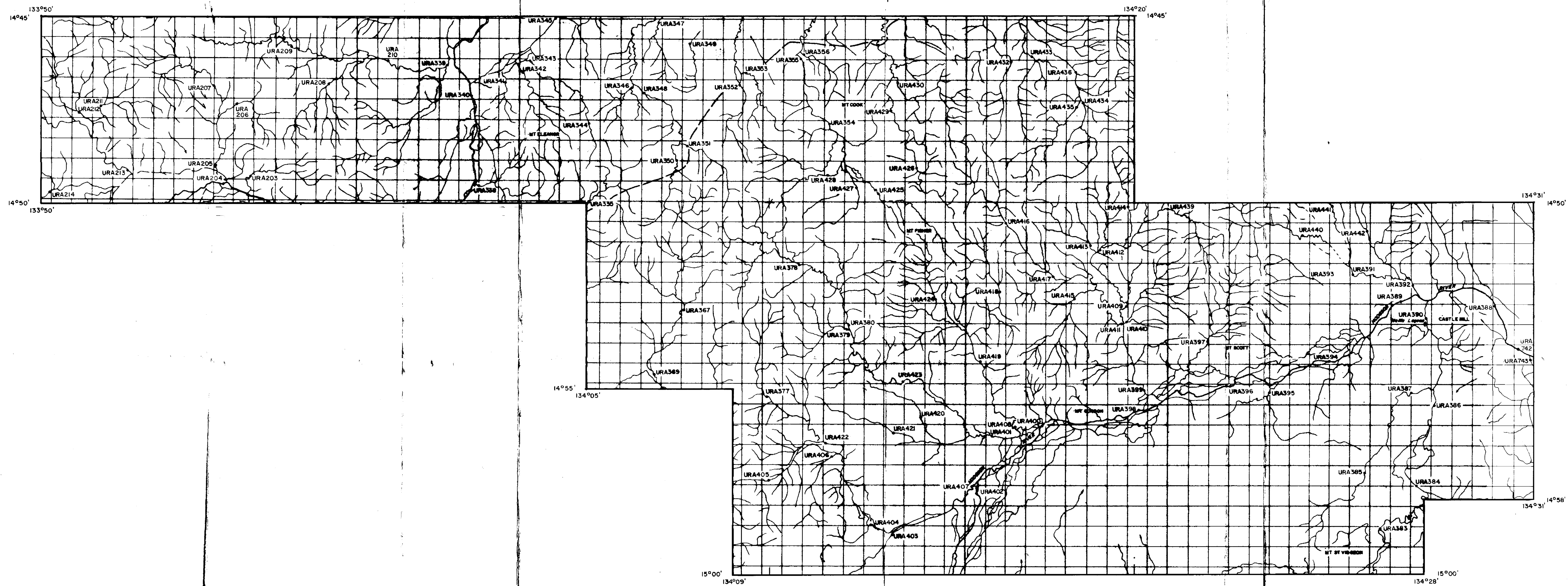
The heavy liquid used was tetrabromoethane with a specific gravity of 2.96. The concentrates were then screened into various size fractions, further concentrated, where required, by magnetic and electrostatic separation techniques and a comprehensive grain by grain examination carried out on the minus 1.0mm plus 0.425mm fractions.

Of the 97 samples collected within the licence. 94 contained no detectable kimberlite indicator minerals. Chromite grains were identified in the remainder. On further detailed examination these proved to be of non-kimberlitic origin.

CONCLUSIONS

Laboratory testing failed to give any kimberlite-derived minerals in the samples. As the sampling program was considered to have tested the licence adequately, it was concluded that the likelihood of finding kimberlites in E.L. 3364 was remote and that no further exploration for diamonds should be undertaken. The licence was subsequently surrendered with effect from 25th January. 1983.





APPENDIX 1.

ADE JOINT VENTURE

EXPLORATION LICENCE NO. 3364

FINAL EXPENDITURE FOR THE PERIOD 18th June 1982 to 24th January 1983

	—	\$
Salaries		7,847
Field & Laboratory Expenses		25,683
Miscellaneous		2,140
		<hr/>
Total Expenditure	\$	35,670
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Date Licence Granted: 18th June 1982

JPC: 7/3/83

APPENDIX 2.

RESULTS OF LABORATORY EXAMINATIONS

REGIONAL GRAVEL SAMPLES - E.L. 3364

The following fractions of each sample were studied:

-1.0 mm	+0.8	mm;	denoted by +0.8
-0.8 mm	+0.5	mm;	denoted by +0.5
-0.5 mm	+0.425	mm;	denoted by +0.4

Sample No.	Results	Comments
URA 203	NIL	
URA 204	NIL	
URA 205	NIL	
URA 206	NIL	
URA 207	NIL	
URA 208	NIL	
URA 209	NIL	
URA 210	NIL	
URA 211	NIL	
URA 212	NIL	
URA 213	NIL	
URA 214	NIL	
URA 335	NIL	
URA 338	NIL	
URA 339	NIL	

Sample No.	Results	Comments
URA 340	1 +0.4 CHROMITE	1 +0.4 CHROMITE, round, anhedral, finely granular, brittle, translucent fragments, soft (crushed).
URA 341	NIL	
URA 342	NIL	
URA 343	NIL	
URA 344	NIL	
URA 345	NIL	
URA 346	NIL	
URA 347	NIL	
URA 348	NIL	
URA 349	NIL	
URA 350	NIL	
URA 351	NIL	
URA 352	NIL	
URA 353	NIL	
URA 354	NIL	
URA 355	NIL	
URA 356	NIL	
URA 367	NIL	
URA 369	NIL	
URA 377	NIL	
URA 378	NIL	

Sample No.	Results	Comments
URA 379	NIL	
URA 380	NIL	
URA 383	NIL	
URA 384	NIL	
URA 385	NIL	
URA 386	NIL	
URA 387	NIL	
URA 388	NIL	
URA 389	NIL	
URA 390	NIL	
URA 391	NIL	
URA 392	NIL	
URA 393	NIL	
URA 394	NIL	
URA 395	NIL	
URA 396	NIL	
URA 397	NIL	
URA 398	NIL	
URA 399	1 +0.5 CHROMITE	1 +0.5 CHROMITE worn, rounded, fine matte pitted surface.
URA 400	NIL	
URA 401	NIL	

Sample No.	Results	Comments
URA 402	1 +0.5 CHROMITE	1 +0.5 CHROMITE matte, finely pitted, anhedral, subrounded.
URA 403	NIL	
URA 404	NIL	
URA 405	NIL	
URA 406	NIL	
URA 407	NIL	
URA 408	NIL	
URA 409	NIL	
URA 410	NIL	
URA 411	NIL	
URA 412	NIL	
URA 413	NIL	
URA 414	NIL	
URA 415	NIL	
URA 416	NIL	
URA 417	NIL	
URA 418	NIL	
URA 419	NIL	
URA 420	NIL	
URA 421	NIL	
URA 422	NIL	
URA 423	NIL	

Sample No.	Results	Comments
URA 424	NIL	
URA 425	NIL	
URA 426	NIL	
URA 427	NIL	
URA 428	NIL	
URA 429	NIL	
URA 430	NIL	
URA 432	NIL	
URA 433	NIL	
URA 434	NIL	
URA 435	NIL	
URA 436	NIL	
URA 439	NIL	
URA 440	NIL	
URA 441	NIL	
URA 442	NIL	
URA 742	NIL	
URA 743	NIL	