

Ashton Mining Limited 83-89 Eagle Street Brisbane. 4000

30th June, 1981

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SUMMARY

A regional gravel sampling program was undertaken in E.L. 2469 at a density of one sample per 5.50 square kilometres. A total of 6 gravel samples were collected and the heavy mineral fractions examined for kimberlitic indicator minerals. All results were negative.

INTRODUCTION

Exploration Licence 2469, covering 32.99 square kilometres was granted to Secured Loans and Developments Limited on 20th November, 1980 for a period of twelve months. The licence was the subject of an option agreement between the title holder and Ashton Mining Limited.

The target of exploration in E.L. 2469 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 20th November, 1980 to 30th June, 1981.

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 relevant 1:100,000 topographic map 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 4 mm fraction collected for laboratory examination. Generally the minus 4 mm samples weighed 25 - 30 kg. The sample sites were accurately plotted in the field on a prepared 1:100,000 base plan. Within E.L. 2469, a total of 6 samples were collected corresponding to a sample density of one sample per 5.50 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 1.0 mm plus 0.425 mm fraction. All samples gave negative results.

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. 2469 was remote and that no further exploration for diamonds should be undertaken.

APPENDIX 1.

RESULTS OF LABORATORY EXAMINATIONS: E.L. 2469

The following fractions of each sample were studied:

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

Sample No.	Results	Comments
WIN 406	Nil	
WIN 407	Nil	· ·
WIN 408	Nil	
WIN 429	Nil	
WIN 430	Nil	
WIN 431	Nil	· ·

APPENDIX 2.

A.D.E. JOINT VENTURE

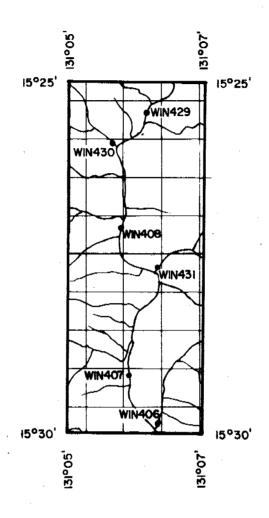
EXPLORATION LICENCE NO. 2469

FINAL EXPENDITURE FOR THE PERIOD ENDED 30TH JUNE 1981.

	\$
Salaries	502
Field & Laboratory Expenses	2,435
Miscellaneous	390
Expenditure for Period	3,327

Date Licence Granted: 20.11.80

J.P.C: 1/7/81



ASHTON MINING LIMITED
REGIONAL GRAVEL SAMPLING

E.L. 2469 SAMPLE LOCATIONS

PLAN 1

