

Submitted to: Department of Mines & Energy, Minerals House, DARWIN.

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SUMMARY

A regional gravel sampling program was undertaken in E.L. 2702 at a density of one sample per 9.79 square kilometres. A total of 42 gravel samples were collected and the heavy mineral fractions examined for kimberlitic indicator minerals.

None of the samples contained any kimberlite indicator minerals.

INTRODUCTION

Exploration Licence 2702 was granted to Ashton Mining Limited on 27th March, 1981, for a period of twelve months. It covers an area of 411.25 square kilometres and is on the Auvergne 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 27th March, 1981 to 4th February, 1982, which is the date of surrender of the licence.

A statement of expenditure is presented in Appendix 2.

EXPLORATION PROGRAM

Prior to the commencement of field work, gravel sample locations were plotted in the office on the Auvergne 1:100,000 sheet 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 40kg 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. 2702, a total of 42 samples were collected corresponding to a sample density of one sample per 9.79 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 42 samples collected within the licence, none were found to contain detectable kimberlite indicator minerals.

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. 2702 was remote and that no further exploration for diamonds should be undertaken. The licence was subsequently surrendered with effect from 5th February, 1982.

APPENDIX 1.

RESULTS OF LABORATORY EXAMINATIONS

REGIONAL GRAVEL SAMPLES

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

Samp.	le No	Results
AUV	850	Nil
AUV	851	Nil
AUV	852	Nil
AUV	853	Nil
VUA	854	Nil
VUA	855	Nil
AUV	856	Nil
VUA	857	Nil
AUV	858	Nil
AUV	859	Nil
AUV	860	Nil
AUV	861	Nil

Comments

Sampl	e No	Results	Comments
AUV	862	Nil	
VUA	863	Nil	
AUV .	864	Nil	-
AUV	865	Nil	
AUV	866	Nil	
VUA	867	Nil	
VUA	868	Nil	
AUV	869	Nil	
AUV	870	Nil	
VUA	871	Nil	
AUV	872	Nil	
AUV	873	Nil	
AUV	874	Nil	
AUV	875	Nil	
VUA	876	Nil	
VUA	877	Nil	
AUV	878	Nil	
VUA	879	Nil	
AUV	880	Nil	

Sampl	le No	Results	Comments
AUV	881	Nil	
AUV	882	Nil	
AUV	883	Nil	
AUV	884	Nil	
AUV	885	Nil	
AUV	886	Nil	
AUV	887	Nil	
AUV	888	Nil	
AUV	889	Nil	
VUA	890	Nil	
AUV	891	Nil	

APPENDIX

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ADE JOINT VENTURE

EXPLORATION LICENCE NO. 2702

FINAL EXPENDITURE for the Period 27th March 1981 - 4th February 1982

\$
Salaries 1,592

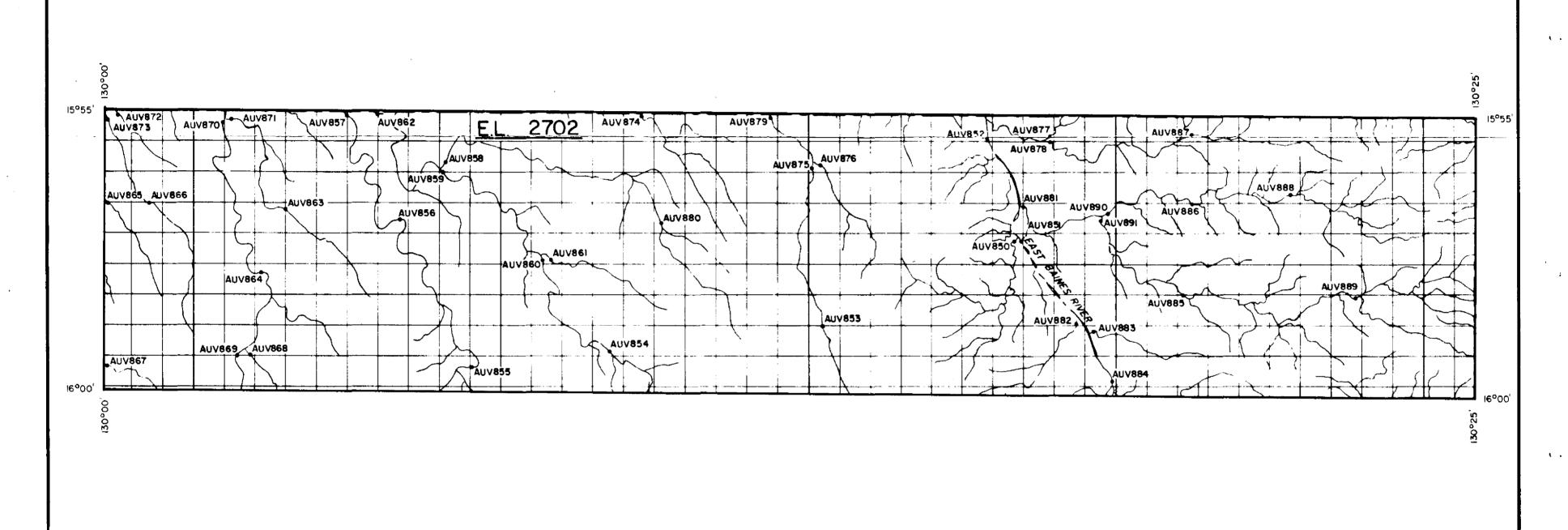
Field & Laboratory Expenses 9,618

Miscellaneous 1,692

Expenditure for year ended \$ 12,902

Date Licence Granted: 27th March 1981

JPC: 9/3/82



ASHTON MINING LIMITED
REGIONAL GRAVEL SAMPLING

E.L. 2702
SAMPLE LOCATIONS

PLAN 1

O 1 2 3 4 5 km.

SCALE | 1000000
Date- FEBRUARY, 1982