

FINAL REPORT E.L. 2900

10th April, 1982

to

17th February, 1983.

# OPEN FILE

Licensee: Michael Ward & John McCormack

Operator: Ashton Mining Limited

Sheet  
Reference: Urapunga (SD 53-10) 1:250,000

Submitted to: M. Ward & J. McCormack

Ashton Mining Limited,  
85 Eagle Street,  
Brisbane. 4000.

February, 1983.

CR83/105

ABSTRACT

*During the period 10th April, 1982 to 17th February, 1983, Ashton Mining Limited undertook a regional gravel sampling program within Exploration Licence 2900 with the view to locating possible kimberlite pipes. The licence was covered at a sampling density of one sample per 13.80 square kilometres. A number of chromite grains were identified from laboratory observation of four of the gravel samples. These were considered to be non-kimberlitic in origin.*

*From the results of this sampling program, it was concluded that there was little likelihood of finding kimberlites in Exploration Licence 2900.*

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1.00

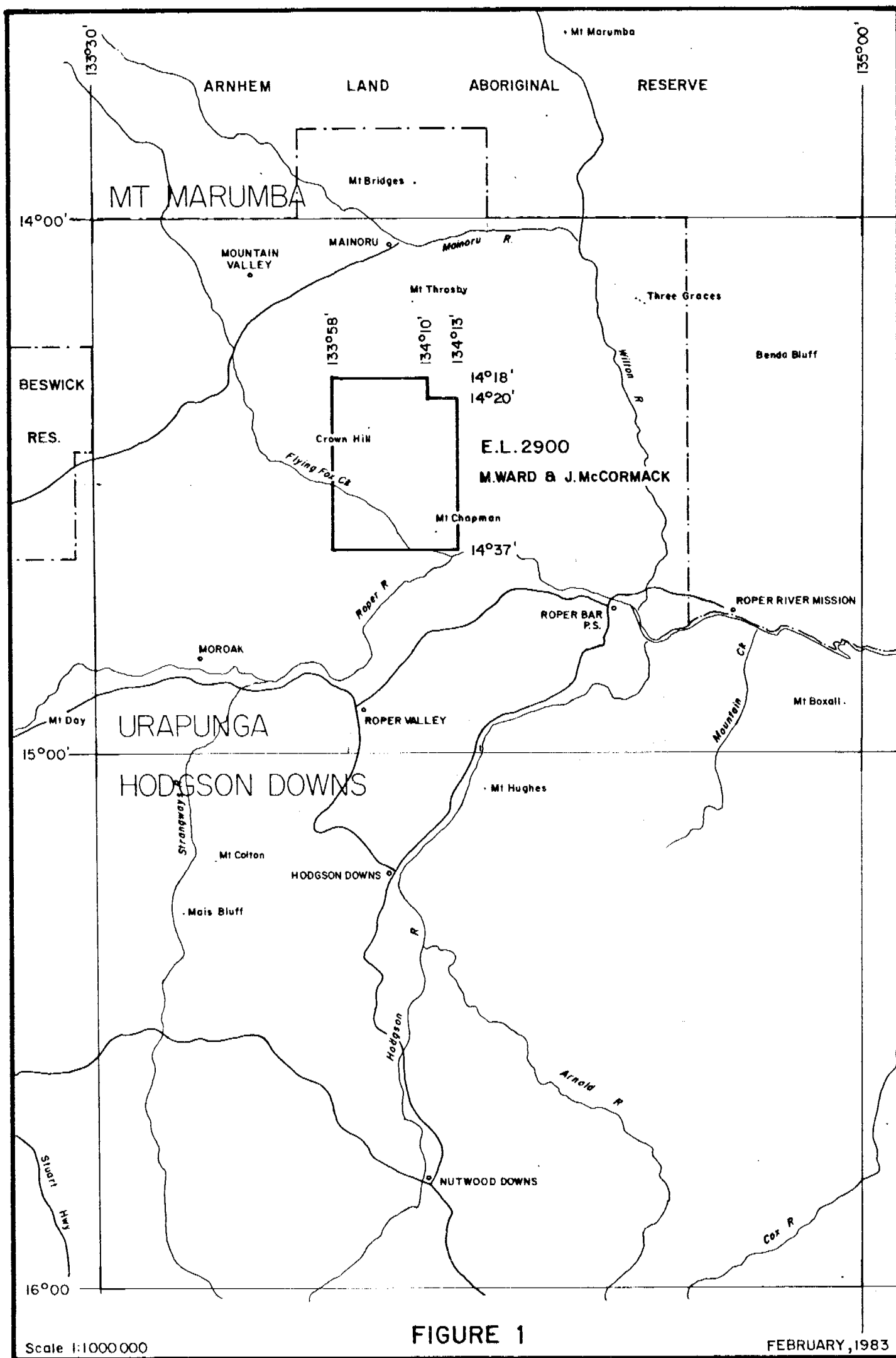
INTRODUCTION

Exploration Licence 2900 covers an area of 924.47 square kilometres and is located on the Urapunga 1:250,000 sheet.

The licence, which was granted to Michael Ward and John McCormack on 3rd November, 1981, is the subject of an option agreement between the above and Ashton Mining Limited.

Exploration procedures instigated within the licence were aimed at locating possible kimberlite bodies. A helicopter-supported regional gravel sampling program was implemented.

This report gives a summary of the work carried out by Ashton Mining Limited in E.L. 2900 during the period 10th April, 1982 to 17th February, 1983. A statement of expenditure covering this period is included in the report.



2.00

TENURE

Exploration Licence 2900 covering 924.47 square kilometres is held by Michael Ward and John McCormack and was granted on 3rd November, 1981. An outline of the licence is given in Figure 1, and its boundaries described below:

Commencing at the intersection of latitude 14 degrees 18 minutes with longitude 133 degrees 58 minutes thence proceeding to the intersection of latitude 14 degrees 18 minutes with longitude 134 degrees 10 minutes thence proceeding to the intersection of latitude 14 degrees 20 minutes with longitude 134 degrees 10 minutes thence proceeding to the intersection of latitude 14 degrees 20 minutes with longitude 134 degrees 13 minutes thence proceeding to the intersection of latitude 14 degrees 37 minutes with longitude 134 degrees 13 minutes thence proceeding to the intersection of latitude 14 degrees 37 minutes with longitude 133 degrees 58 minutes thence proceeding to the intersection of latitude 14 degrees 18 minutes with longitude 133 degrees 58 minutes, subject to all applications for mining tenements and excluding therefrom all mining tenements granted or registered and all reserves included within the definition of "reserve" in section 7 of the *Mining Act*.

3.00

FIELD INVESTIGATIONS

Prior to the commencement of field work, gravel sample locations were plotted in the office on the Chapman, Flying Fox, Moroak and Throsby 1:100,000 sheets so that sample sites tested the available drainage at intervals of approximately five kilometres. Drainage is generally well developed in the licence area.

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. 2900, a total of 67 samples were collected corresponding to a sample density of one sample per 13.80 square kilometres. Sample locations are given in Plan 1.

4.00      LABORATORY PROCESSING

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 1.00mm plus 0.425mm fractions.

Of the 67 samples collected with the licence, 63 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.



5.00 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. 2900 was remote and that no further exploration for diamonds should be undertaken. The option agreement with M. Ward and J. McCormack was subsequently terminated with effect from 18th February, 1983.

APPENDIX 1.

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# RESULTS OF LABORATORY EXAMINATIONS

## REGIONAL GRAVEL SAMPLES E.L.2900

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 66	Nil	
URA 292	Nil	
URA 293	Nil	
URA 294	Nil	
URA 295	Nil	
URA 296	Nil	
URA 297	Nil	
URA 298	Nil	
URA 299	Nil	
URA 300	Nil	
URA 301	Nil	
URA 302	Nil	
URA 303	Nil	
URA 304	Nil	

Sample No	Results	Comments
URA 305	Nil	
URA 306	Nil	
URA 307	Nil	
URA 308	Nil	
URA 309	Nil	
URA 504	Nil	
URA 513	Nil	
URA 514	Nil	
URA 515	Nil	
URA 516	Nil	
URA 517	Nil	
URA 518	Nil	
URA 519	Nil	
URA 520	Nil	
URA 521	Nil	
URA 522	Nil	
URA 523	Nil	
URA 524	Nil	

Sample No	Results	Comments
URA 525	Nil	
URA 539	Nil	
URA 540	2 +0.4 CHROMITE	2 +0.4 CHROMITE vitreous, one truncated octahedron, other irregular.
URA 548	Nil	
URA 549	Nil	
URA 550	2 +0.5, 1 +0.4 CHROMITE	2 +0.5, 1 +0.4 CHROMITE smooth faces, octahedron or rounded matte holed, surfaced anhedral grains.
URA 551	Nil	
URA 552	Nil	
URA 553	Nil	
URA 554	Nil	
URA 555	Nil	
URA 556	Nil	
URA 557	Nil	
URA 558	Nil	
URA 559	Nil	
URA 560	Nil	
URA 561	Nil	
URA 562	Nil	

Sample No	Results	Comments
URA 563	Nil	
URA 564	Nil	
URA 565	1 +0.4 CHROMITE	1 +0.4 CHROMITE bubbly, holed subvitreous, even textured.
URA 566	Nil	
URA 567	Nil	
URA 568	Nil	
URA 569	Nil	
URA 631	Nil	
URA 632	Nil	
URA 633	Nil	
URA 634	Nil	
URA 635	Nil	
URA 636	Nil	
URA 637	Nil	
URA 638	Nil	
URA 639	Nil	
URA 640	1 +0.5 CHROMITE	1 +0.5 CHROMITE octahedral, zoned, soft granular type.

APPENDIX 2.

A.D.E. JOINT VENTURE

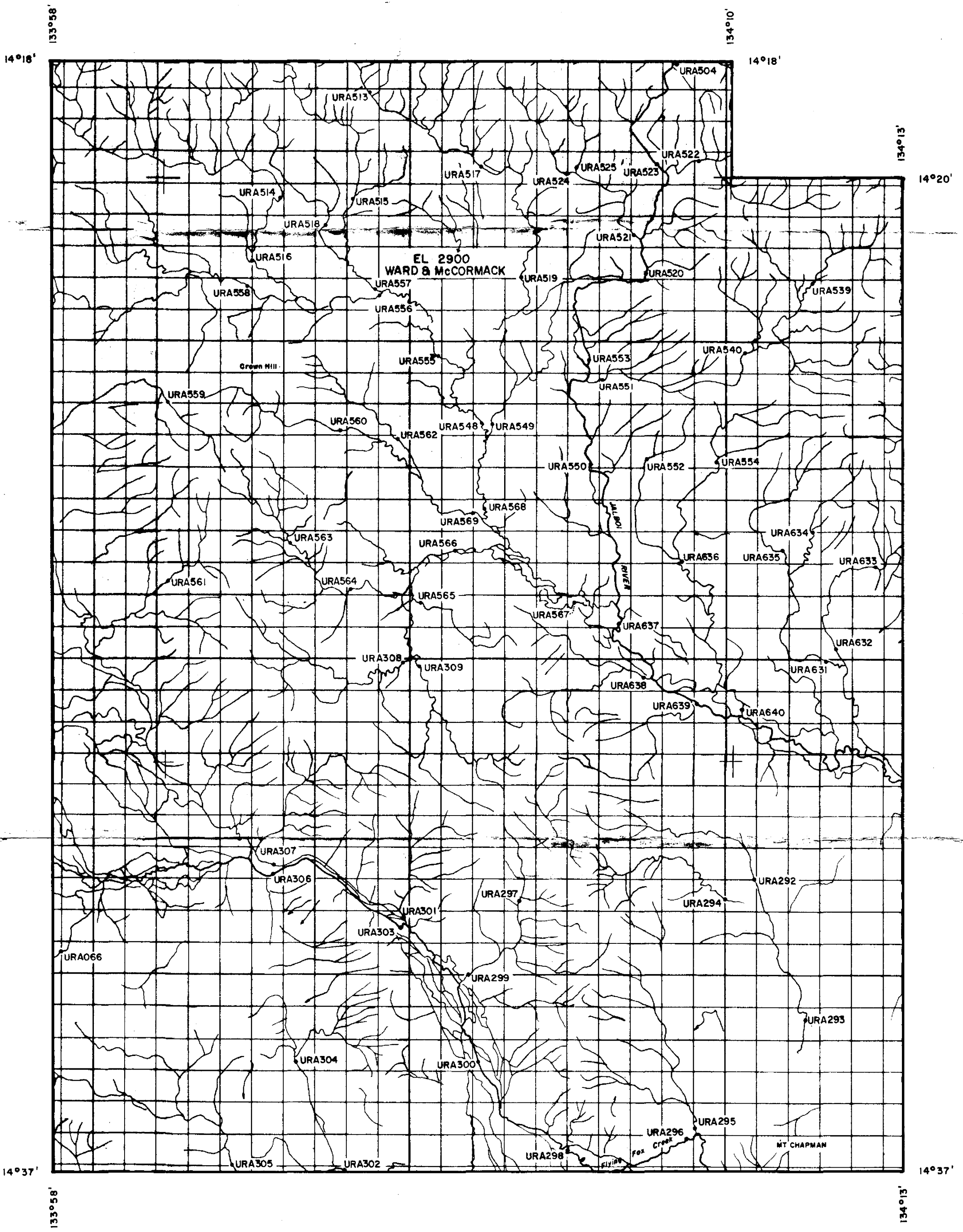
EXPLORATION LICENCE NO. 2900

FINAL EXPENDITURE FOR THE PERIOD 10th April 1982 to 17th February 1983

	\$
Salaries	6,432
Field & Laboratory Expenses	19,028
Miscellaneous	1,340
	<hr/>
Total Expenditure	\$26,800
	<hr/> <hr/>

Date Licence Granted: 3rd November 1981





M. WARD AND J. McCORMACK	
REGIONAL GRAVEL SAMPLING	
EL. 2900	
SAMPLE LOCATIONS	
PLAN 1	
0 1 2 3 4 5 km.	
SCALE 1:100 000	
Date: FEBRUARY, 1983	
CR 83/105	