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No. 3550

EL 474

TODDS DAM

**PROGRESS REPORTS TO LICENCE CONDITIONAL
SURRENDER / RE-ISSUE AS PART OF AN
AMALGAMATED LICENCE,
FOR THE PERIOD 14/1/1979 TO 15/1/1981**

Submitted by
Western Mining Corp. Ltd
1981

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Enquiries:

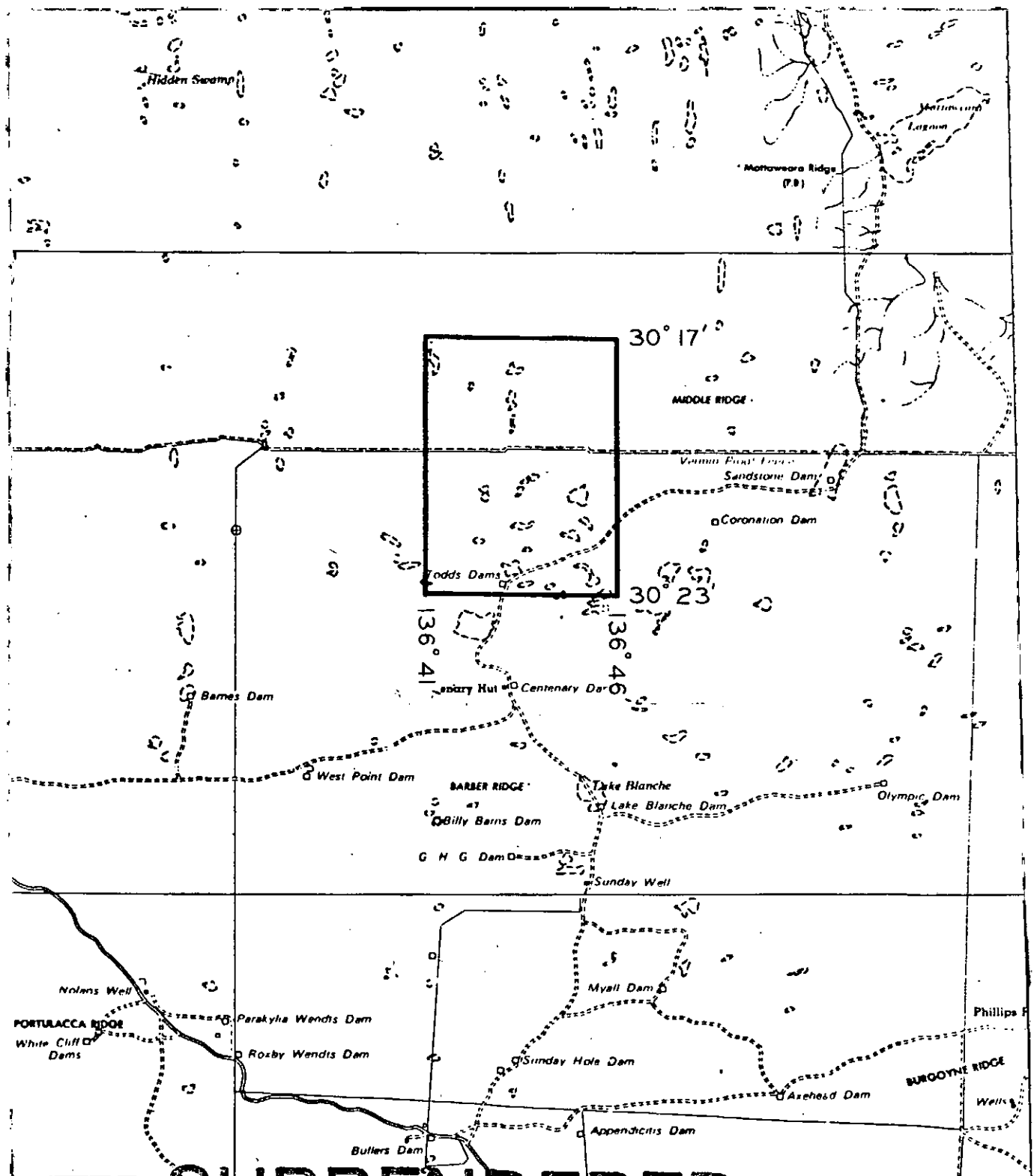
Customer Services
Resources and Energy Group
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Government of South Australia

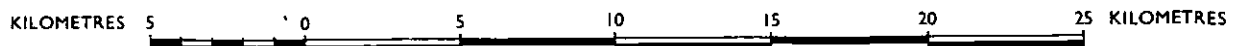
Department for Manufacturing,
Innovation, Trade, Resources and Energy



SURRENDERED

Surrendered

SCALE 1:250,000



APPLICANT: WESTERN MINING CORPORATION LIMITED

DM: 704/78

AREA: 89 square kilometres

1:250000 PLANS: ANDAMOOKA

LOCALITY: TODDS DAM AREA; APPROX 60km NW of ANDAMOOKA

DATE GRANTED: 1.5.79

DATE EXPIRED: 30.4.86

EL No: **474**

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE 474

TODDS DAM

QUARTERLY REPORT 13TH JANUARY - 31ST JULY, 1979



CONTENTS

1. INTRODUCTION
2. EXPLORATION COMPLETED DURING THE QUARTER
3. FUTURE PROGRAMME
4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the first quarterly report on Exploration Licence 474 and covers the period between 13th January, 1979, the expiry date of previous Exploration Licence 279, and 1st August, 1979.

2. EXPLORATION COMPLETED DURING THE QUARTER

No field exploration was completed during the quarter.

3. FUTURE PROGRAMME

Additional geophysical traversing and re-levelling in the vicinity of the Todds Dam magnetic anomaly is programmed.

4. EXPENDITURE STATEMENT

Expenditure on Exploration Licence 474 to 26th June, 1979, was \$1,030 distributed as follows:

	<u>\$</u>	<u>%</u>
Geological	733	71.2
Geophysical	115	11.2
Administration	182	17.6
	<u>1,030</u>	<u>100.0.</u>

This brings to \$93,272 the total amount spent on this Licence and its predecessor 279.

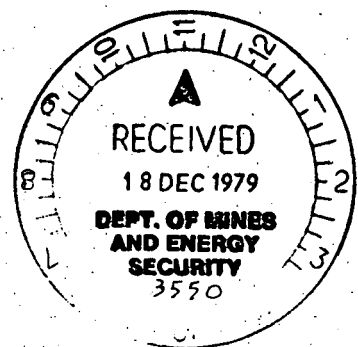
Exploration Licence 474 is included in the amalgamated expenditure commitment for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED

EXPLORATION LICENCE NO. 474

TODDS DAM

QUARTERLY REPORT 1ST AUGUST-31ST OCTOBER, 1979



C O N T E N T S

1. INTRODUCTION
2. EXPLORATION COMPLETED DURING THE QUARTER
3. FUTURE PROGRAMME
4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the second quarterly report on Exploration Licence 474 covering the period between the 1st August and 31st October, 1979.

2. EXPLORATION COMPLETED DURING THE QUARTER

No field exploration was conducted. Recent drilling in the Acropolis area south of E.L. 474 has intersected rocks that show some similarities to the rocks intersected by TOD 1 and this has upgraded the Todds area. More detailing investigations are required to determine the extent of the similarity.

3. FUTURE PROGRAMME

Additional petrological and geochemical studies on the TOD 1 basement rocks will be conducted.

4. EXPENDITURE STATEMENT

Expenditure for the quarter on Exploration Licence 474 as at 16th October, was \$2,276 distributed as follows:-

	\$	%
Geological	1,671	73.4
Geophysical	206	9.1
Draughting	217	9.5
Administration	182	8.0
	<hr/> 2,276	<hr/> 100.0

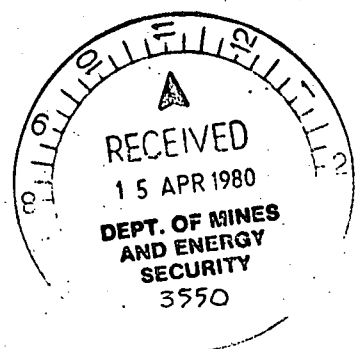
This brings to \$94,518 the total amount spent on this Licence and its predecessor 279.

Exploration Licence 474 is included in the amalgamated expenditure commitment for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED
EXPLORATION LICENCE NO. 474

TODDS DAM

QUARTERLY REPORT 1ST NOVEMBER 1979
TO 31ST JANUARY 1980



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1. INTRODUCTION
2. EXPLORATION COMPLETED DURING THE QUARTER
3. FUTURE PROGRAMME
4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the third quarterly report on Exploration Licence 474 covering the period between the 1st November 1979 and 31st January 1980.

2. EXPLORATION COMPLETED DURING THE QUARTER

The detailed airborne magnetometer/spectrometer survey, part of which covered this Licence, was completed and data tapes have been submitted to the Department.

3. FUTURE PROGRAMME

Contract gridding and optical levelling in the Todds Dam area will commence during April in preparation for detailed gravity surveying.

4. EXPENDITURE STATEMENT

Expenditure for the quarter on Exploration Licence 474 as at 5th February was \$23,483 distributed as follows:-

	<u>\$</u>	<u>%</u>
GEOLOGICAL	1,988	8.5
GEOPHYSICAL	18,616	79.3
DRAUGHTING	2,333	9.9
ADMINISTRATION	546	2.3
	<u>23,483</u>	<u>100.0</u>

This brings to \$118,001 the total amount spent on this licence and its predecessor 279.

Exploration Licence 474 is included in the amalgamated expenditure agreement for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED
EXPLORATION LICENCE NO. 474
TODDS DAM
QUARTERLY REPORT 1ST FEBRUARY 1980
TO
30TH APRIL 1980



CONTENTS

1. INTRODUCTION
2. EXPLORATION COMPLETED
3. FUTURE PROGRAMME
4. EXPENDITURE STATEMENT

1. INTRODUCTION

This is the fourth quarterly report on Exploration Licence 474 and records exploration activity between 1st February and 30th April 1980.

2. EXPLORATION COMPLETED

Gridding and optical levelling in Todds Dam area in preparation for detailed gravity surveying has been completed.

3. FUTURE PROGRAMME

Detailed gravity surveying will be conducted prior to the siting of follow-up drill holes.

4. EXPENDITURE STATEMENT

Expenditure on Exploration Licence 474 to 1st April was \$36,611 distributed as follows:-

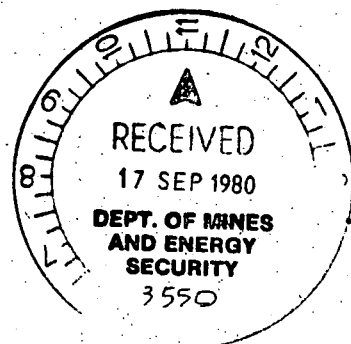
	\$	%
Geology	3,337	9.1
Geophysics	29,531	80.7
Draughting	2,425	6.6
Administration	1,318	3.6
	<hr/>	<hr/>
	\$36,611	100.0%

This brings to \$131,129 the total amount spent on this licence and its predecessor 279.

Exploration Licence 474 is included in the amalgamated expenditure agreement for the Stuart Shelf area.

WESTERN MINING CORPORATION LIMITED
EXPLORATION LICENCE NO. 474
TODDS DAM
QUARTERLY REPORT 1ST MAY TO 30TH JULY 1980

AUTHOR - G.R.T. HUDSON - B.Sc (Hons.), PhD.



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1. Introduction
2. Exploration Completed
3. Future Programme
4. Expenditure Statement

1. INTRODUCTION

This is the fifth quarterly report on Exploration Licence 474 and records exploration activity between the 1st May and 30th July 1980.

2. EXPLORATION COMPLETED

Detailed gravity surveying over optically levelled grids in the Todds Dam area has been completed. The survey has resulted in a significant change in the shape of the gravity anomaly which is now defined as being elongate in a north-south direction, similar to the magnetic anomaly. This is consistent with the drilling results in TOD 1 which indicated a common source for both gravity and magnetic anomalies. A contoured plan will be included in the next report.

3. FUTURE PROGRAMME

As the stratigraphic drill hole TOD 1 has explained both gravity and magnetic anomalies; no additional drilling is warranted at this stage. The origin of the basement, however, is still obscure and additional drilling may be indicated at a later date by results obtained elsewhere.

4. EXPENDITURE STATEMENT

Expenditure on Exploration Licence 474 to 24th June was \$53,112 distributed as follows:-

	\$	%
Geology	10,438	19.6
Geophysics	37,012	69.7
Draughting	2,930	5.5
Analytical	303	0.6
Administration	2,429	4.6
	<hr/> 53,112	<hr/> 100.0

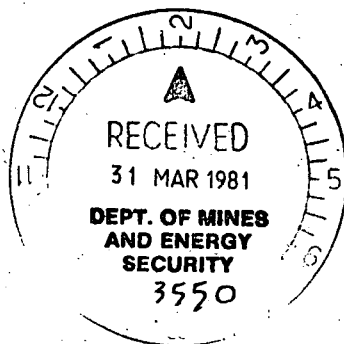
This brings to \$147,630 the total amount expended on this area.

Exploration Licence 474 is included in the amalgamated expenditure agreement for the Stuart Shelf.

WESTERN MINING CORPORATION LIMITED
BP AUSTRALIA LIMITED
BP PETROLEUM DEVELOPMENT LIMITED
EXPLORATION LICENCE 474
TODDS DAM

REPORT FOR THE PERIOD 1ST AUGUST 1980 TO
15TH JANUARY, 1981

AUTHOR - G.R.T. HUDSON - B.Sc. (Hons.) PhD.



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1. INTRODUCTION
2. EXPLORATION COMPLETED
3. CONTINUATION
4. EXPENDITURE STATEMENT

LIST OF PLANS

BOUGER GRAVITY PLAN EL 474, 1:50 000

- 6237 S

1. INTRODUCTION

The Hon. the Minister of Mines and Energy consented on 17th September, 1980, to the transfer of Exploration Licence No. 474 to Western Mining Corporation Limited, BP Australia Limited and BP Petroleum Development Limited according to their respective interests with such transfer being registered on that day.

A conditional surrender of Exploration Licence No. 474 became effective on 15th January, 1981, consequent upon the grant of an Exploration Licence over the Stuart Shelf area as from 16th January, 1981.

2. EXPLORATION COMPLETED

No field exploration took place during the period. Gravity results from the detailed surveying reported on previously are now available and are included in this report.

3. CONTINUATION

No field exploration is planned at this stage, although the evaluation of the low level aeromagnetic survey is continuing.

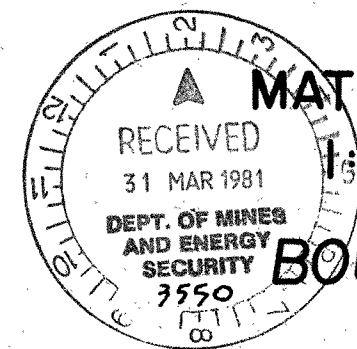
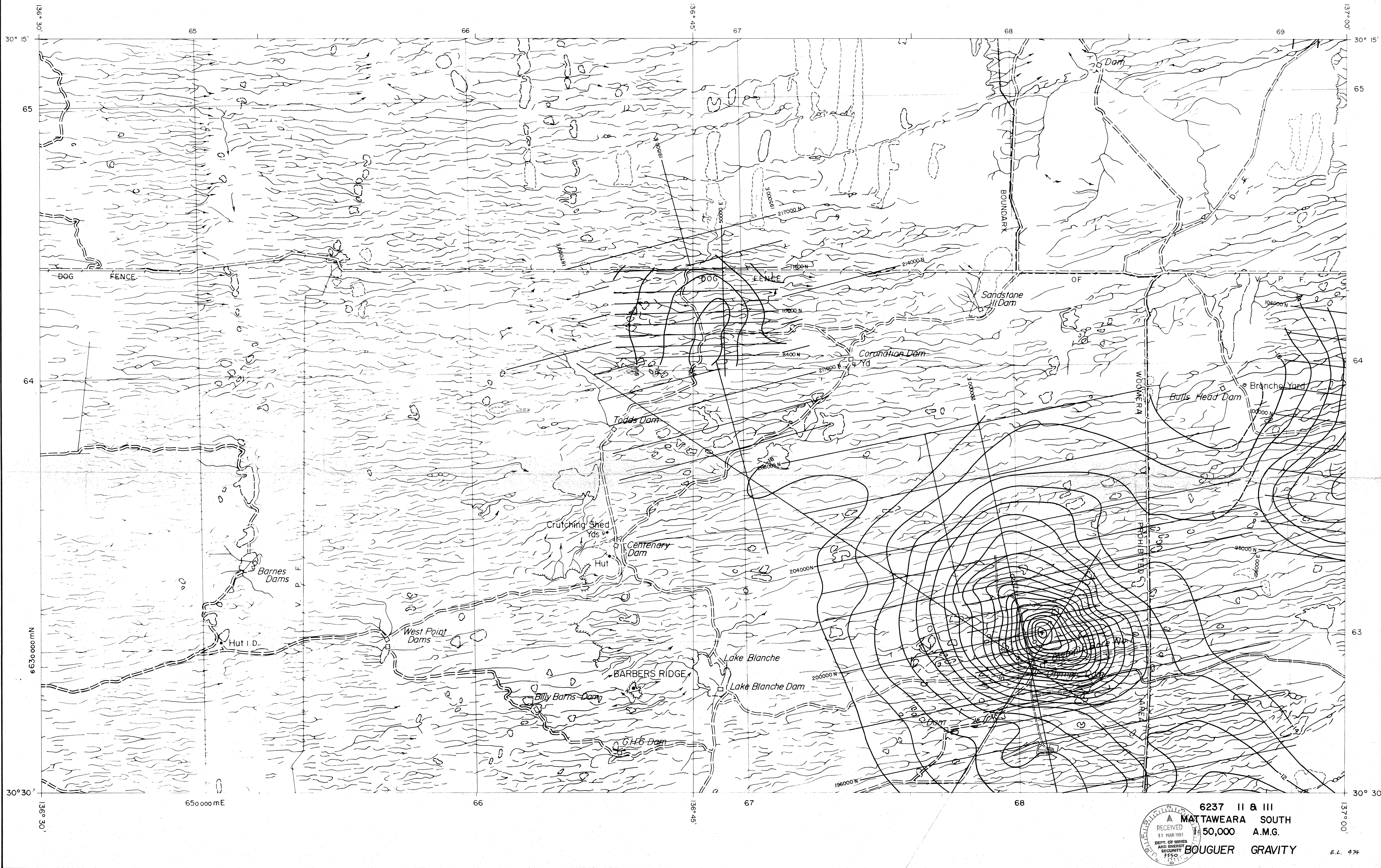
4. EXPENDITURE STATEMENT

Total expenditure on Exploration Licence 474 to the 6th January, 1981 is estimated to be \$70,500 distributed as follows:-

	<u>\$</u>	<u>%</u>
Geology	12,500	17.7
Geophysics	47,000	66.7
Draughting	3,000	4.3
Analytical	500	0.7
Administration	<u>7,500</u>	<u>10.6</u>
	<u>70,500</u>	<u>100.0</u>

This brings our expenditure on this area to approximately \$164,500.

Exploration Licence 474 is included in the amalgamated expenditure agreement for the Stuart Shelf.



6237 II & III
MATTAREARA SOUTH
1:50,000 A.M.G.
BOUGUER GRAVITY