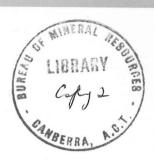
1971/113

COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

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SUMMARY OF PETROLEUM LEGISLATION IN AUSTRALIA AND THE TERRITORY OF PAPUA NEW GUINEA

SEPTEMBER 1971

by

H.S. TAYLOR-ROGERS

The information contained in this report has been obtained by the Department of National Development as part of the policy of the Commonwealth Government to assist in the exploration and development of mineral resources. It may not be published in any form or used in a company prospectus or statement without the permission in writing of the Director, Bureau of Mineral Resources, Geology & Geophysics.



BMR Record 1971/113 c.2 Record 1971/114

ANNUAL SUMMARY OF ACTIVITIES Operations Branch 1971



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OPERATIONS BRANCH

Staff

Assistant Director:

K.R. Vale

Publications and Information Section

Geologist Class 5:

K.A. Townley

Geologist Class 4:

I.R. McLeod

Geophysicist Class 4:

W.H. Oldham

Geologist Class 3:

Mrs M.E. Bartlett H.L. Higginson

R.R.E. Jacobson C.B. Selmser

Geologist Class 2:

Mrs P.M. Angus

Mrs S.L. Roddick

Technical Officer Grade 2:

L.C. Mundy

Library

Librarian Class 2:

Miss B. Wood

Librarian Class 1:

Miss S. Attwood

Mrs M.A. Thompson

Planning and Co-ordination Section

Geophysicist Class 4:

K.M. Kennedy

Geologist Class 3:

L.V. Bastian

R.B. Aronsen

Geologist Class 2:

R. Thieme

Administrative Section

Administrative Officer:

B.M. Williams

Assistant Administrative

Officer:

S. Pysden

Finance Officer:

B.F. Hoare

Officer-in-Charge, Publication,

Distribution, & Sales Section: G. Scott.

ANNUAL SUMMARY OF ACTIVITIES - 1971

Planning and Co-ordination Section

R.B. Aronsen and L.V. Bastian joined the Section in March 1971 and from then on the Section was fully staffed for the first time in several years; this enabled it to undertake its official role.

Throughout the year, assistance was given to the Director and Assistant Director, Operations Branch, in a number of areas including staff reviews, estimates, and advice for the Secretary on the activities of the Bureau, as well as matters relating to the current programme of field and laboratory activities. Detailed work on the restructuring of the Bureau to adjust to the changing pattern of work was begun in August.

A major undertaking was the preparation of the five and ten year forward programme of the Bureau. This was done in consultation with all Branches and the results displayed on a board 6' x 4' and using magnetic labels to give the information. In some areas, details of the forward activities are still missing and work on this project needs to continue; and indeed the forward programme will be under continuous review. Apart from the value of this programme as a management tool, it is also an essential basis for the restructuring mentioned above.

As part of the forward programme project reviews of progress and projections of 1:250,000 geological mapping, helicopter gravity, aeromagnetic, and marine surveys were carried out. Indications are that, except for Tasmania, the 1:250,000 geological first edition mapping of Australia will be completed by 1980; this includes the work of State Geological Surveys acting independently or in co-operation with BMR. The current regional geophysical surveys are scheduled to be completed in the field as follows: helicopter gravity 1974; aeromagnetic 1981; current outermargin marine 1972 (0-2000 metres at 5-mile line spacing 1988). The geological marine surveys involving bottom sampling on a 10-mile grid and shallow seismic profiling at 10-mile line spacing should complete coverage of the Australian continental margin between the 0- and 500- metre isobaths by the end of 1980.

Cost benefit analyses were carried out on BMR drilling and airborne activities. Detailed evidence of past costs were difficult to obtain, but the findings indicate that both services require a full schedule to maintain their economic operation, although their scientific value in terms of experimentation and testing of new techniques is not easy to assess in monetary terms. The analyses were presented in papers to the Director and it is proposed that investigations of these types will continue. More detailed accounting has been initiated to make the aassessments more reliable.

Record 1971/49 - BMR 1971 Programme - was prepared and given a wide distribution to universities, State geological surveys, and mining companies, and placed on open file. The manuscript of a survival manual was prepared and the aim is to have it printed in time for the 1972 field season. The manual is being compiled in consultation with Mr R.H.J. Thompson of Management Services and will be of a general nature to serve all field officers of the Department.

PUBLICATIONS AND INFORMATION SECTION

Publications

Manuscripts on which the Editing Group worked during 1971, and the state of each reached within the Section by 31 October 1971, are:

BULLETINS

- 95 Stairway Sandstone: ready for press
- 111 Georgina Basin: sent to press
- 118 Laverton Edjudina seismic : sent to press
- 119 Standard curves for magnetic anomalies : sent to press
- 123 Wiso Groundwater: being re-edited
- 124 Herberton/Mt Garnet : sent to press
- 125 Geological papers, 1969 : sent to press
- 126 Palaeontological papers, 1969: sent to press
- 127 Huon Gulf : sent to press
- 129 Stability of magnetization : sent to press
- 130 Bowen Basin: almost ready for press
- 171 Mt Isa Geochemistry: sent to press
- 132 Drummond Basin: ready for press
- 133 South Sepik: sent to press
- 134 Yass Conodonts : sent to press
- 137 Murrumbidgee Gp brachiopods : being edited
- 138 NW Queensland phosphorites : edited
- 139 Geological papers, 1970 : edited
- - Cape York Peninsula : edited
- - Burdekin Delta: being edited
- - Kubor Range : being edited
- Diurnal variations of earth's magnetic field : being edited

In summary, 11 Bulletins were sent to press in the 10 months, and 11 more are in various stages of preparation; another (Bull. 121) has remained with the author for the whole period, and for yet another (136) figures are being drawn but the manuscript has not yet been given to the section.

Ten Bulletins have been issued during the period, and 14 (including the 11 mentioned) are in press.

REPORTS

- 126 Hughenden : sent to press
- 134 Otway Basin : sent to press
- 142 Eddystone Taroom : sent to press
- 143 Tambo-Augathella: sent to press
- 144 Proserpine : sent to press
- 149 Type catalogue, University of Sydney: sent to press
- 150 Mount Ramsay: sent to press
- 151 Bibliography, Clarence-Morton Basin: ready for press
- 155 Bibliography, Canning Basin: ready for press
- 156 Bibliography, Bonaparte Gulf Basin: ready for press
- 157 Bibliography, Perth Basin: sent to press
- 158 Bibliography, Sydney Basin: ready for press
- 159 Isomagnetic maps, 1970.0: ready for press
- - Warwick and Goondiwindi : being edited
- Isotopic age determinations, 1966: being edited
- delta, 1967-70 : received

8 Reports were issued in the period; 8 were sent to press; and 8 are in various stages of preparation.

EXPLANATORY NOTES

20 Explanatory notes were issued during the period; 23 were sent to press; and 5 were in hand on 31 October 71.

AMI REVIEWS

Quarterly and Annual Review Chapters have been edited as received from Mineral Resources Branch (q.v.).

BROCHURES

Brochures written for and by the Information Subsection (q.v.) have been edited as received.

Information

The information Subsection significantly expanded the range and volume of its activities in 1971 as a result of the 1970 reorganization and the subsequent filling of advertised vacancies. The main fields of activity were provision of information on BMR's activities, and the Australian mineral industry and earth sciences in general, to other Government organisations, industry, and the public; information storage and retrieval, and exhibitions and visits to BMR.

Exhibitions

A highlight of the year was the highly successful Open Days held from 13 to 15 May to mark the 25th Anniversary of BMR's establishment.

With the co-operation of all Branches, static exhibits, working models, films, and colour slide shows illustrating BMR activities were displayed inside the building. These were complemented by helicopter gravity, rotary drilling, seismic surveying, and geological engineering working displays in the paddocks near the building. The exhibition, which was manned by BMR staff, was inspected by over 10,000 visitors, including the Minister, the Secretary, and the Chairman of the Public Service Board.

It was originally planned that an exhibition be mounted in Kings Hall concurrently with the open days. However, Parliament was then in session, so this exhibition was deferred to 23 to 27 August in the second week of the Budget session; this time also coincided with the Twelfth Pacific Science Congress. At the request of the staff of Parliament House and with the concurrence of the Minister and the Speaker, the exhibition was continued for a further week to enable visitors to inspect it during school holidays. In addition to Parliamentarians and the staff of Parliament House, some 15,000 visitors from all States and overseas saw the display. The exhibition was manned by two senior BMR officers during sitting days, and by the Information Subsection during visiting hours on other days.

A display of recent BMR maps was placed on show in the foyer and main lecture theatre of the A.N.U. Copeland Building during the Pacific Science Congress in August.

At the request of executives of the Australian Institute of Management, who saw the King's Hall exhibition, a small display on Australian mineral and petroleum resources was held at the Parkroyal Motel, Canberra, from 20 to 22 October inclusive. The purpose of the display was to complement the 13th General Management Conference theme 'Advance Australia - Where'. This was not manned.

School Visits

The Open Days and King's Hall exhibitions led to requests by various schools for groups of science students to visit BMR for instruction in the earth sciences. Visiting schools in 1971 included North Curtin Primary, Canberra Boys Grammar, and Gilgandra High.

Showcases and Models

Several specimen showcases and models were constructed for the Open Days exhibition, and some were used again for the King's Hall and Parkroyal displays. The showcases have since been placed in various parts of the building. These and the Amadeus Basin and palaeontology displays retained from the Open Days have attracted the attention of both BMR staff, school groups, and other visitors. Possession of these showcases allows minor displays to be mounted at short notice.

Brochures

Nearly 30 maps and brochures were prepared during the year, some by the Publication and Information Section and the rest by other Branches. These were printed for the Open Days and King's Hall exhibitions and will be used as handout material for teachers, students, and visitors. Reprints of several brochures, especially those on natural resources subjects, have been needed to meet the consistent demand.

Films and Slides

The latest BMR film 'Probing the Continental Shelf' was received in time for showing during Open Days. It has since been shown to visiting school groups and was loaned to the Department of the Interior Training Section.

During the year 160 colour slides were added to the collection, which now totals 1,300. Special slide shows were prepared for Open Days by Information Subsection and Gravity Section. Frequent use was made of the slide collection for lectures by BMR staff and several loan requests were received from outside organizations.

Information Storage and Retrieval Systems

Work continued throughout the year on the proposal for an information storage and retrieval system for the Bureau. Discussions were held with several firms specializing in this field, and seminars and lectures were attended to ascertain the experiences and problems of other organizations setting up similar systems. Tender specifications for the proposed BMR information storage and retrieval contract project were prepared; these were discussed with Management Services Branch of the Department and the Division of National Mapping, and distributed to members of the Information Storage and Retrieval Committee and to Branch Heads for comment; the tender specifications were finally forwarded to the Head Office of the Department in September.

At the request of the Australian Mining Council Advisory Committee, a draft index was prepared for material lodged under the provisions of the offshore petroleum legislation. Work on the index is proceeding in conjunction with the Commonwealth Archives Office, which is preparing to receive tapes and other material to be submitted under the legislation.

Contact was maintained with groups in BMR developing storage and retrieval systems for their own work.

Information

The flow of enquiries by letter and personal visit, from industry and the general public was attended to. The internal distribution of BMR publications, and distribution of Records to Open File centres, continued through the year.

Contributions to External Publications

A wide variety of material was prepared for inclusion in external publications, of which the more important were:

- . Department of National Development annual report
- . Australian Atomic Energy Commission annual report
- . 1971 'Official Annual Year Book'
- . 'An Economic and Investment Reference Australia'
- . 'Australia Handbook'
- . National Development Newsletter
- · . 'Australia in Brief'

Annual Report

The Publications and Information Section prepared the BMR annual report. The report, the first of its kind for BMR, outlines the principal activities of the Bureau during calendar year 1970, sets out its functions and organization, gives lists of internal and external publications by BMR officers, and contains a complete staff list. The report, is indexed and illustrated; it is being issued as a Record, has served as a model on which future Annual Reports, which will be printed, may be based.

Other Publications

The following publications were distributed during the year:

Pictorial index of activities, 1969

Publications of BMR: Part 1 - Publications other than maps

Publications of BMR: Part 2 - Maps.

Open File Circular No. 11 was ready for the printer; work continued on the list papers by BMR authors in outside publications.

The second edition of Coming National and International Events was prepared and distributed to senior BMR officers. Two supplementary lists were also prepared and distributed. Work began on the compilation of the third edition.

Library

Introduction

The year 1970/71 has been marked by major changes in the physical layout of the library and physical organization of library material.

Staff

The staff structure of the library consists of five professional ant three clerical positions. Two professional positions (Library Officer Grade 1) have remained vacant the whole year.

Two temporary Clerical Assistant Grade 2 positions were created in March 1971 for the organization of library material in the basement.

Since March 1971, valuable assistance to the library has been given by four to five library officers in training during their two days practical work each week and full time during vacations.

Two librarians in training were accommodated in the library for three weeks during July 1971.

Accommodation

Amendments to the library's floor plan were carried out in the second half of the year. Relocation of compactus shelving gave the library and additional work area of 376 square feet.

Additional compactus shelving was installed to replace conventional floor shelving. This provided added storage room for BMR records, subsidy data, rare books, and duplicate serial issues to be retained.

Steel cupboards in the basement were replaced with compactus shelving for housing seismic sections accompanying subsidy reports.

Cataloguing

There are no arrears in cataloguing of current acquisitions except for 400 titles of unsought gratis material.

Bibliographical control of the serial collection has improved over the year, both as a result of the basement project and other smaller organizational improvements in the library proper.

Basement

In March 1971 organization of library material in the basement was begun.

The first stage of the project is completed, namely the organization and listing of serial holdings in the basement at the start of the project.

Corresponding catalogue and serial records in the library are being edited as a result of the project. The second stage, removal of lesser used material on the second floor, and the resolving of bibliographical conflicts as a result of stage one, has started.

BMR Publications

The library is attempting to buildup as complete a set as possible of all BMR publications. At least one copy of each BMR publication held by the library has been removed from the open shelves and stored; these will be used in the library only.

Circulation

The sharp drop in serial circulation figures this year can be explained by the removal of certain journals bought in multiple copies from controlled circulation. Reduction in the work load was necessary to ensure that serial circulation could be handled by one clerk with no overtime.

Loans

Much effort has been expended on eliminating inconsistencies and errors in the loan record through the year.

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STATISTICAL SUMMARY OF THE YEAR'S OUTPUT

		1969/70	1970/71
ACQUISITIONS	Books Serials	450 30	783 269
INTER-LIBRARY LOANS	Requests received from other libraries Requests fulfilled Items borrowed from other libraries	1,547 1,238 417	1,974 1,623 355
BINDING	Serial volumes	300	774
CIRCULATION	Serial issues Monographs	16,433 3,272	8,576 2,446
LOANS	To Bureau staff	4,520	5,242
CATALOGUING	Monographs (new) Monographs (retrospective)		783 451
	Total	500	1,234
	Serials (new) Serials (retrospective)	•	269 231
	Total	50	500

ADMINISTRATION SECTION

Summary Estimates

	Estimate 1971/72 \$	Expenditure 1970/71 \$
1. Salaries and Payments in the nature of Salary		×
01. Salaries and allowances 02. Overtime	3,555,000 140,000	3,120,240 139,869
*	3,695,000	3,260,108
2. Administrative Expenses		
01. Travelling and subsistence02. Office requisites and equipment, stationery	380,000	347,677
and printing	85,000	73,778
03. Postage, telegrams and telephone services	100,000	94,464
04. Office services	19,000	16,438
05. Printing and distribution of maps and		7
publications	220,000	158,692
06. Motor vehicles - Hire and maintenance	455,000	453,005
07. Aircraft - Maintenance and running expenses	85,000	141,653
08. General stores	349,000	390,923
09. Contract investigations	2,300,000	1,637,751
10. Freight and cartage	90,000	67,082
11. Minor field operating costs	60,000	49,204
12. Repairs and maintenance of plant and		
equipment	35,000	24,111
13. Computer services	220,000	162,145
14. Incidental and other expenditure	31,000	35,946
	4,429,000	3,652,868
3. Other Services		
01. Search for oil - Subsidy	8,600,000	9,642,531
02. Riverview Observatory - Grant	4,000	4,000
		9,646,531
	3,004,000	0,010,001
TOTAL: DIVISION 396	16,728,000	16,559,507

SUMMARY OF EMPLOYMENT

Period November 1970 - October 1971.

	Joined	<u>Left</u>	Difference
Professional	48	28	+20
Technical Drafting	34	29	+ 5
Clerical	38	35	+ 3
Total	120	92	+28
		-	