

DEPOSIT

# STATISTICAL SUMMARY

## MINING AND QUARRYING OPERATIONS 1952 TO 1964

(SUPPLEMENT TO MINING AND QUARRYING BULLETIN 1964)



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA  
AUSTRALIA

STATISTICAL SUMMARY : MINING AND QUARRYING, AUSTRALIA

1952 - 1964

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## I. INTRODUCTORY NOTES

1. Introduction. In previous years the mimeographed Mining and Quarrying Bulletin contained a statistical summary of Census data for the latest five years. However, in the Bulletin for 1964 (issued in January, 1966) no such statistical summary was included.

It was decided that because of the current high level of public interest in mining and quarrying and because of the changeover to decimal currency, the time was opportune to publish separately a statistical summary of Census data for all years since the inception of the Census, i.e. from 1952 to 1964.

This bulletin presents this summary of Mining and Quarrying Census data. Statistics of various items relating to particular years may differ from statistics issued previously in Mining and Quarrying Bulletins because of subsequent revisions and amendments to the data. Additional dissections of the summarized data are available on request, within the limitations of confidentiality restrictions.

Detailed explanatory notes on the Census (referring to definitions, classification, scope, methodology and coverage) appeared in the 1964 Bulletin and users of this bulletin are referred to these notes for detailed background information. However, for the convenience of users, the definition of the mining and quarrying industry and definitions of terms used in the Census are reproduced below.

It was decided also to include in this bulletin a summary of data available in relation to petroleum exploration to the end of 1964. These data have been collected and made available by the Commonwealth Bureau of Mineral Resources.

2. Definition of the Mining and Quarrying Industry. For the purposes of the annual Census of Mining and Quarrying the mining and quarrying industry is defined as including all mining and quarrying and the recovery of minerals from ore dumps, tailings, etc. Ore dressing and elementary smelting of metallic minerals (e.g. in the case of gold) and miscellaneous elementary treatment of non-metallic minerals, where these are carried out in an associated plant at or near the mine, are included in the industry. However, establishments engaged in more complex metal smelting and/or refining, including those smelting and refining establishments associated with mining operations (e.g. as at Mt. Isa, Queensland), are excluded from the mining and quarrying industry and classified to the manufacturing industry.

Also included in the mining and quarrying industry are "quarries" operated by brickworks, cement works, etc., and those winning direct construction materials such as sand, gravel, building stone, and broken and crushed stone for road making, etc. The gathering of salt deposited in evaporation pans from brine solutions is also included in the mining industry. The data include estimates of value of output and value of production for fossicking activities, but fossickers and men engaged on small sundry claims are excluded from tables showing numbers of mines and employment. Activities associated with prospecting and the exploration of minerals are excluded. Mining properties under development are included.

3. Definition of terms used. The following definitions relate to the various Census items for which statistics are presented in this supplement.

Small and Larger Mines and Quarries. For the purposes of the annual Census, a small mine or quarry is defined as an establishment employing fewer than four (4) persons and larger mines or quarries are establishments employing four (4) or more persons.

Persons employed. All persons including working proprietors engaged in and around the mine on mining and developmental operations, in underground and surface workshops, in crushing and ore-dressing operations, in carting ore to crushing or dressing works at or near the mine (to screens at coal mines), and in removal of overburden, are included. Salaried staff engaged in the management of the mine are included but head office staffs are excluded.

Employment statistics shown in this bulletin have been compiled on the basis of "average employment during whole year". These figures represent the total man-years of labour input in particular years. The whole year figure is calculated for each mine from average employment for period worked adjusted proportionately on the basis of the actual period worked expressed in weeks.

Salaries and wages paid. These relate to amounts paid to employees (excluding drawings by working proprietors), including amounts capitalized as well as those charged to working expenses. The amounts are gross (including bonuses and holiday and sick pay) before any deductions are made for income tax, pensions, etc. The value of explosives sold to employees has, however, been deducted.

Value of power, fuel and light used. This includes all fuels and purchased electricity. The amounts shown relate only to items charged to working expenses and exclude amounts capitalized or charged to mine development. Where electricity is generated at the mine, in general no value is shown for electricity but the fuels used in generation are included. In certain cases, however, where the mine powerhouse is relatively large, it has been classified for statistical purposes as a separate establishment and included in manufacturing. In these cases electricity is shown as "purchased", and fuels used in generation are excluded.

Value of materials and stores, etc. used. This includes timber and explosives (including the value of explosives sold to employees) and other mining and ore-dressing materials and stores, materials used in repairs effected by own workmen (labour costs being included in wages), tools replaced and repairs done by persons not employed by the mine. The amounts refer to working expenses only and exclude amounts capitalized.

Value of additions and replacements to fixed assets. This includes all expenditure on new structures and additions (including major alterations, capitalized repairs and improvements) whether done by contractors or by the company's own workmen, and all plant, machinery and vehicles acquired for use in connexion with actual mineral production. Vehicles acquired for purposes other than actual mineral production, such as the external delivery of products, are excluded.

Value of Output. The amounts shown under this heading represent selling value, at the mine or quarry or associated ore crushing or dressing plant (i.e. selling value at point of sale less transport costs from the mine or quarry to the point of sale) of ores, concentrates or other minerals produced during the year. Operators are instructed to value output on the basis of the minerals produced during the year (i.e. on the basis of production as distinct from sales or despatches), including the estimated value in respect of any portion of the year's production for which final realizations had not been made at the time of completing the return. Subsidy and bounty payments received have been included. The amounts represent the "selling value" of the minerals won after treatment such as crushing and ore-dressing done at or near the mine. Value added by the processes of reduction of ores, concentrates, etc. to a metal are excluded. "Producer-consumers" (e.g. of limestone in the case of a cement manufacturer) are asked to value output on the basis of production costs of mining and treatment done at the mine (e.g. crushing, but in the case of a cement manufacturer as cited above, not cement manufacture), plus an allowance for business overhead and profit.

Value of production. The value of production of any industry has been defined as "the value of consumable commodities produced during the year, deducting, as far as possible, the value of goods consumed in the process of production". The value of production for mining and quarrying shown in this bulletin has been calculated by deducting from value of output, the value (at the mine or quarry) of fuel, power and light, and timber, explosives and other materials and stores used (including costs of repairs). Certain information on depreciation of plant, land and buildings and mine development is collected, but, because of its generally unsatisfactory nature, depreciation is not deducted in arriving at value of production.

Many other costs and expenses, such as royalties, maintenance (other than repairs) of buildings and plant, workers' compensation and other insurance, taxation, etc. have also not been deducted in arriving at value of production. Consequently, when salaries and wages are deducted from value of production, only portion of the balance is available as interest and profits.

Value of production rather than value of output should be used when comparing or combining value of mining and quarrying with values contributed by establishments classified to other industries. However, it should be noted that the value of production as here defined is an approximate measure only of the

value added by an industry in that no deduction is made for the services provided by other industries (e.g. commercial and industrial services of all kinds not provided by the mining and quarrying establishment) or for certain indirect taxes (e.g. rates, pay-roll tax) included in the value of output. A dissection of the gross national product at factor cost by broad industry groups (the mining and quarrying industry is one group) is available in "Australian National Accounts, National Income and Expenditure". This gives a measure of the total of value added by activity in each industry and is comprehensive in its coverage of the economy. However (for elements other than wages) it is a summation of the value added by enterprises, rather than establishments, classified to industry according to the major activity of the enterprise as a whole. This means that if a firm has, for example, manufacturing establishments as well as mining establishments, the value added by its activity will be shown entirely as due to "manufacturing" if the firm is predominantly a manufacturer. On balance, if interest is focussed on the activity of mining and quarrying establishments, the value of production figures in this supplement are the more appropriate indicator of value added.

4. Petroleum exploration statistics. The petroleum exploration statistics presented in this supplement have been compiled and made available by the Bureau of Mineral Resources, Geology and Geophysics, Canberra. In the past, petroleum exploration in Papua and New Guinea was treated as an integral part of Australian petroleum exploration. Consequently, for certain statistical series, separate details relating to Australia are not available. In such cases the statistics presented include details relating to exploration in Papua-New Guinea. Wherever possible however, separate details for Australia are shown, and in such cases, for completeness and for comparability with the series which cannot be dissected, details are also shown for Papua - New Guinea separately.

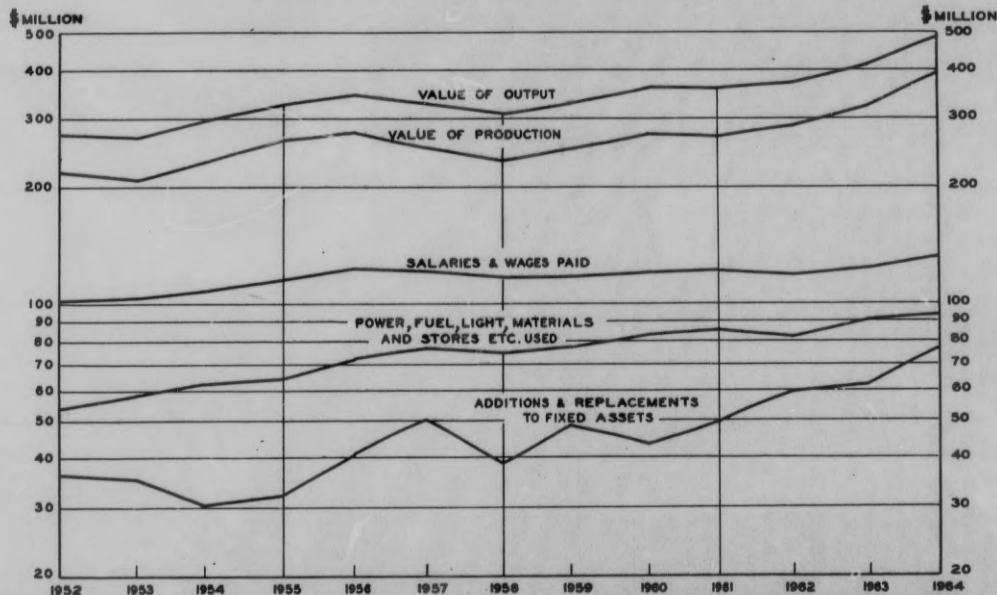
5. Rounding. Where figures have been rounded in this publication, any discrepancies between totals and sums and components are due to rounding.

6. Decimal currency. In this bulletin, all monetary amounts are shown in decimal currency (1 pound = 2 dollars).



# PRINCIPAL FINANCIAL STATISTICS

MINING AND QUARRYING, 1952 - 1964

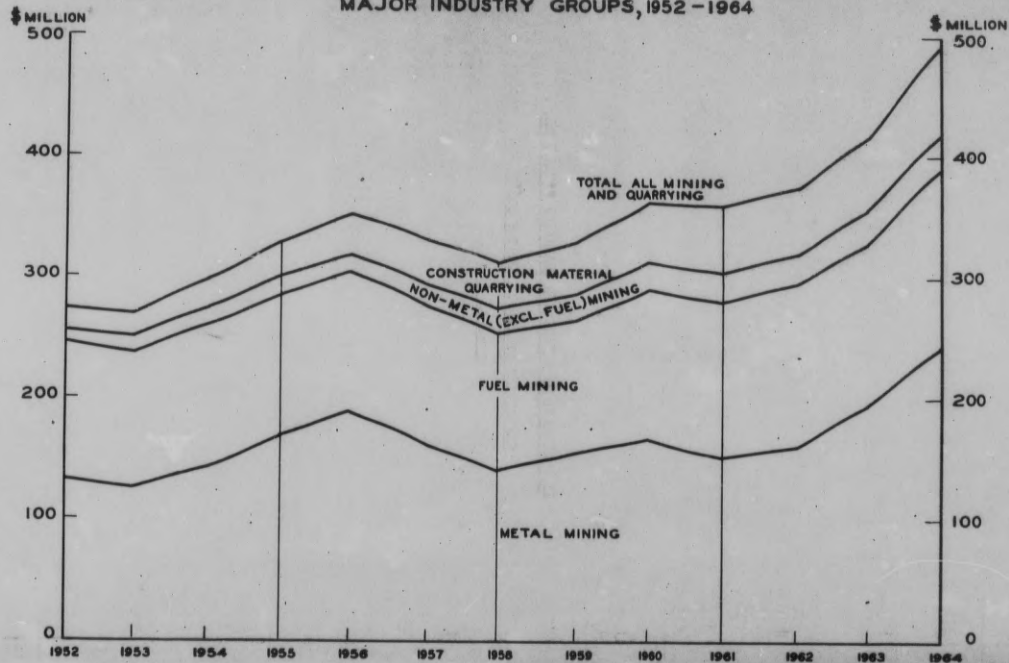


II. SUMMARY OF MINING AND QUARRYING OPERATIONS.

CLASSIFIED BY MAJOR INDUSTRY GROUP,

1952 TO 1964

# VALUE OF OUTPUT, MINING AND QUARRYING MAJOR INDUSTRY GROUPS, 1952-1964



| Year | Metal mining | Fuel mining | Non-metal (excl. fuel) mining | Total all mining | Construction material quarrying | Total all mining and quarrying |
|------|--------------|-------------|-------------------------------|------------------|---------------------------------|--------------------------------|
|------|--------------|-------------|-------------------------------|------------------|---------------------------------|--------------------------------|

TABLE 1. - NUMBER OF MINES AND QUARRIES : ALL MINES AND QUARRIES

|      |       |     |     |       |       |       |
|------|-------|-----|-----|-------|-------|-------|
| 1952 | 874   | 299 | 636 | 1,809 | 530   | 2,339 |
| 1953 | 1,099 | 284 | 704 | 2,087 | 679   | 2,766 |
| 1954 | 1,027 | 286 | 565 | 1,878 | 687   | 2,565 |
| 1955 | 1,090 | 272 | 627 | 1,989 | 712   | 2,701 |
| 1956 | 1,088 | 255 | 633 | 1,976 | 745   | 2,721 |
| 1957 | 840   | 248 | 641 | 1,729 | 780   | 2,509 |
| 1958 | 708   | 234 | 645 | 1,587 | 746   | 2,333 |
| 1959 | 756   | 226 | 687 | 1,669 | 862   | 2,531 |
| 1960 | 746   | 225 | 698 | 1,669 | 892   | 2,561 |
| 1961 | 805   | 208 | 755 | 1,768 | 1,056 | 2,824 |
| 1962 | 866   | 204 | 731 | 1,801 | 1,107 | 2,908 |
| 1963 | 748   | 193 | 792 | 1,733 | 1,044 | 2,777 |
| 1964 | 799   | 189 | 756 | 1,744 | 1,148 | 2,892 |

TABLE 2. - NUMBER OF MINES AND QUARRIES : LARGER MINES AND QUARRIES ONLY (a)

|      |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|
| 1952 | (b) | (b) | (b) | (b) | (b) | (b) |
| 1953 | (b) | (b) | (b) | (b) | (b) | (b) |
| 1954 | 169 | 284 | 106 | 559 | 223 | 782 |
| 1955 | 151 | 270 | 147 | 568 | 236 | 804 |
| 1956 | 190 | 254 | 150 | 594 | 246 | 840 |
| 1957 | 194 | 247 | 145 | 586 | 273 | 859 |
| 1958 | 177 | 231 | 151 | 559 | 330 | 889 |
| 1959 | 171 | 221 | 171 | 563 | 327 | 890 |
| 1960 | 157 | 215 | 168 | 540 | 349 | 889 |
| 1961 | 159 | 203 | 160 | 530 | 399 | 929 |
| 1962 | 152 | 199 | 167 | 518 | 433 | 951 |
| 1963 | 146 | 189 | 168 | 503 | 421 | 924 |
| 1964 | 148 | 183 | 159 | 490 | 435 | 925 |

TABLE 3. - NUMBER OF MINES AND QUARRIES : SMALL MINES AND QUARRIES ONLY

|      |     |     |     |       |     |       |
|------|-----|-----|-----|-------|-----|-------|
| 1952 | (b) | (b) | (b) | (b)   | (b) | (b)   |
| 1953 | (b) | (b) | (b) | (b)   | (b) | (b)   |
| 1954 | 858 | 2   | 459 | 1,319 | 464 | 1,783 |
| 1955 | 939 | 2   | 480 | 1,421 | 476 | 1,897 |
| 1956 | 898 | 1   | 483 | 1,382 | 499 | 1,881 |
| 1957 | 646 | 1   | 496 | 1,143 | 507 | 1,650 |
| 1958 | 531 | 3   | 494 | 1,028 | 416 | 1,444 |
| 1959 | 585 | 5   | 516 | 1,106 | 535 | 1,641 |
| 1960 | 589 | 10  | 530 | 1,129 | 543 | 1,672 |
| 1961 | 646 | 5   | 587 | 1,238 | 657 | 1,895 |
| 1962 | 714 | 5   | 564 | 1,283 | 674 | 1,957 |
| 1963 | 602 | 4   | 624 | 1,230 | 623 | 1,853 |
| 1964 | 651 | 6   | 597 | 1,254 | 713 | 1,967 |

(a) Those employing four or more persons.

(b) Not available.

| Year | Metal mining | Fuel mining | Non-metal (excl. fuel) mining | Total all mining | Construction material quarrying | Total all mining and quarrying |
|------|--------------|-------------|-------------------------------|------------------|---------------------------------|--------------------------------|
|------|--------------|-------------|-------------------------------|------------------|---------------------------------|--------------------------------|

TABLE 4. - AVERAGE NUMBER OF PERSONS EMPLOYED DURING WHOLE YEAR: ALL MINES AND QUARRIES

|      | (a)    | (a)    | (a)   | (a)    | (a)   | (a)    |
|------|--------|--------|-------|--------|-------|--------|
| 1952 |        |        |       |        |       |        |
| 1953 | 22,042 | 28,204 | 2,791 | 53,037 | 3,803 | 56,840 |
| 1954 | 21,407 | 28,212 | 2,722 | 52,341 | 4,121 | 56,462 |
| 1955 | 22,057 | 27,162 | 2,708 | 51,897 | 4,197 | 56,094 |
| 1956 | 23,353 | 25,461 | 2,678 | 51,522 | 4,329 | 55,851 |
| 1957 | 22,928 | 23,924 | 2,749 | 49,601 | 4,640 | 54,241 |
| 1958 | 20,495 | 22,335 | 2,728 | 45,558 | 4,581 | 50,139 |
| 1959 | 20,256 | 20,197 | 2,975 | 43,428 | 4,532 | 47,960 |
| 1960 | 19,889 | 19,928 | 2,925 | 42,742 | 5,016 | 47,758 |
| 1961 | 19,287 | 18,398 | 2,942 | 40,627 | 5,498 | 46,125 |
| 1962 | 19,023 | 17,765 | 2,838 | 39,626 | 5,599 | 45,225 |
| 1963 | 19,370 | 17,249 | 2,823 | 39,442 | 5,406 | 44,848 |
| 1964 | 19,178 | 17,037 | 2,783 | 38,998 | 5,814 | 44,812 |

TABLE 5. - SALARIES AND WAGES PAID: LARGER MINES AND QUARRIES ONLY (b)  
(\$'000)

| 1952 | 44,734 | 50,118 | 3,234 | 98,086  | 4,040 | 102,126 |
|------|--------|--------|-------|---------|-------|---------|
| 1953 | 45,430 | 51,308 | 3,346 | 100,084 | 4,014 | 104,098 |
| 1954 | 46,616 | 55,090 | 3,240 | 104,946 | 4,090 | 109,036 |
| 1955 | 52,492 | 55,652 | 4,210 | 112,354 | 4,878 | 117,232 |
| 1956 | 59,690 | 55,022 | 4,600 | 119,312 | 5,476 | 124,788 |
| 1957 | 58,568 | 53,490 | 4,800 | 116,858 | 6,438 | 123,296 |
| 1958 | 50,976 | 52,390 | 4,768 | 108,134 | 6,480 | 114,616 |
| 1959 | 52,436 | 50,294 | 5,262 | 107,992 | 6,980 | 114,972 |
| 1960 | 53,454 | 55,406 | 5,328 | 114,188 | 7,256 | 121,444 |
| 1961 | 52,928 | 54,766 | 5,750 | 113,444 | 8,036 | 121,480 |
| 1962 | 51,178 | 53,640 | 5,796 | 110,614 | 8,762 | 119,376 |
| 1963 | 54,792 | 53,864 | 5,764 | 114,420 | 8,684 | 123,104 |
| 1964 | 60,018 | 57,348 | 6,248 | 123,614 | 9,364 | 132,978 |

TABLE 6. - VALUE OF POWER, FUEL, LIGHT AND MATERIALS AND STORES USED: ALL MINES AND QUARRIES  
(\$'000)

| 1952 | 30,022 | 18,918 | 2,126 | 51,066 | 3,280 | 54,346 |
|------|--------|--------|-------|--------|-------|--------|
| 1953 | 33,170 | 19,626 | 2,752 | 55,548 | 3,786 | 59,334 |
| 1954 | 34,594 | 21,284 | 2,844 | 58,722 | 3,910 | 62,632 |
| 1955 | 35,552 | 21,042 | 3,212 | 59,806 | 4,916 | 64,722 |
| 1956 | 40,908 | 21,970 | 3,866 | 66,744 | 5,932 | 72,676 |
| 1957 | 43,696 | 21,736 | 4,292 | 69,724 | 6,894 | 76,618 |
| 1958 | 41,540 | 22,296 | 4,778 | 68,614 | 6,624 | 75,238 |
| 1959 | 43,090 | 21,518 | 4,718 | 69,326 | 6,334 | 75,660 |
| 1960 | 47,008 | 23,884 | 4,680 | 75,572 | 8,854 | 84,426 |
| 1961 | 44,882 | 26,062 | 5,016 | 75,960 | 9,852 | 85,812 |
| 1962 | 41,438 | 28,036 | 5,636 | 75,110 | 9,000 | 84,110 |
| 1963 | 47,990 | 28,480 | 5,534 | 82,004 | 9,082 | 91,086 |
| 1964 | 48,208 | 30,648 | 5,376 | 84,232 | 9,752 | 93,984 |

(a) Not available.

(b) Those employing four or more persons.

| Year | Metal mining | Fuel mining | Non-metal (excl. fuel) mining | Total all mining | Construction material quarrying | Total all mining and quarrying |
|------|--------------|-------------|-------------------------------|------------------|---------------------------------|--------------------------------|
|------|--------------|-------------|-------------------------------|------------------|---------------------------------|--------------------------------|

TABLE 7. - VALUE OF OUTPUT: ALL MINES AND QUARRIES  
(\$'000)

| 1952 | 132,604 | 113,270 | 10,016 | 255,890 | 17,798 | 273,688 |
|------|---------|---------|--------|---------|--------|---------|
| 1953 | 125,680 | 112,104 | 12,426 | 250,210 | 18,874 | 269,084 |
| 1954 | 142,400 | 117,658 | 13,982 | 274,040 | 24,766 | 298,806 |
| 1955 | 169,264 | 116,238 | 14,546 | 300,048 | 29,694 | 329,742 |
| 1956 | 189,496 | 114,166 | 16,098 | 319,760 | 32,880 | 352,640 |
| 1957 | 161,508 | 115,014 | 18,034 | 294,556 | 35,666 | 330,222 |
| 1958 | 140,380 | 114,152 | 20,320 | 274,852 | 37,058 | 311,910 |
| 1959 | 155,044 | 110,668 | 21,110 | 286,822 | 43,148 | 329,970 |
| 1960 | 167,646 | 124,092 | 21,732 | 313,470 | 49,010 | 362,480 |
| 1961 | 152,178 | 129,606 | 22,988 | 304,772 | 55,530 | 360,302 |
| 1962 | 160,252 | 134,760 | 24,314 | 319,326 | 55,812 | 375,138 |
| 1963 | 195,530 | 134,416 | 26,090 | 356,036 | 60,646 | 416,682 |
| 1964 | 243,664 | 147,508 | 27,802 | 418,972 | 73,236 | 492,208 |

TABLE 8. - VALUE OF PRODUCTION: ALL MINES AND QUARRIES  
(\$'000)

| 1952 | 102,582 | 94,352  | 7,890  | 204,824 | 14,518 | 219,342 |
|------|---------|---------|--------|---------|--------|---------|
| 1953 | 92,510  | 92,478  | 9,674  | 194,662 | 15,088 | 209,750 |
| 1954 | 107,806 | 96,374  | 11,138 | 205,318 | 20,856 | 226,174 |
| 1955 | 133,712 | 95,196  | 11,334 | 240,242 | 24,778 | 265,020 |
| 1956 | 148,588 | 92,196  | 12,232 | 253,016 | 26,948 | 279,964 |
| 1957 | 117,612 | 93,278  | 13,742 | 224,832 | 28,772 | 253,604 |
| 1958 | 98,840  | 91,856  | 15,542 | 206,238 | 30,434 | 236,672 |
| 1959 | 111,954 | 89,150  | 16,392 | 217,496 | 34,814 | 252,310 |
| 1960 | 120,638 | 100,208 | 17,052 | 237,898 | 40,156 | 278,054 |
| 1961 | 107,296 | 103,344 | 17,972 | 228,812 | 45,678 | 274,490 |
| 1962 | 118,814 | 106,724 | 18,678 | 244,216 | 46,812 | 291,028 |
| 1963 | 147,540 | 105,936 | 20,556 | 274,032 | 51,564 | 325,596 |
| 1964 | 195,456 | 116,860 | 22,426 | 334,740 | 63,484 | 398,224 |

TABLE 9. - VALUE OF ADDITIONS AND REPLACEMENTS TO FIXED ASSETS: LARGER MINES AND QUARRIES ONLY (a)  
(\$'000)

|      |        |        |       |        | (b)   |        |
|------|--------|--------|-------|--------|-------|--------|
| 1952 | 17,768 | 16,206 | 2,094 | 36,068 |       | 36,068 |
| 1953 | 16,008 | 17,790 | 1,408 | 35,206 |       | 35,486 |
| 1954 | 13,668 | 15,268 | 1,098 | 30,034 |       | 30,546 |
| 1955 | 15,634 | 12,980 | 3,120 | 31,734 |       | 32,342 |
| 1956 | 19,226 | 18,812 | 2,110 | 40,148 | 1,312 | 41,460 |
| 1957 | 21,468 | 23,870 | 3,150 | 48,488 | 1,748 | 50,236 |
| 1958 | 14,318 | 20,442 | 2,566 | 37,326 | 1,650 | 38,976 |
| 1959 | 20,458 | 22,722 | 2,908 | 46,088 | 2,816 | 48,904 |
| 1960 | 13,646 | 25,722 | 1,176 | 40,544 | 3,248 | 43,792 |
| 1961 | 14,350 | 28,516 | 2,548 | 45,414 | 4,562 | 49,976 |
| 1962 | 22,438 | 32,218 | 1,408 | 56,064 | 3,902 | 59,966 |
| 1963 | 29,702 | 27,278 | 1,742 | 58,722 | 3,898 | 62,620 |
| 1964 | 42,461 | 25,369 | 3,497 | 71,327 | 5,867 | 77,194 |

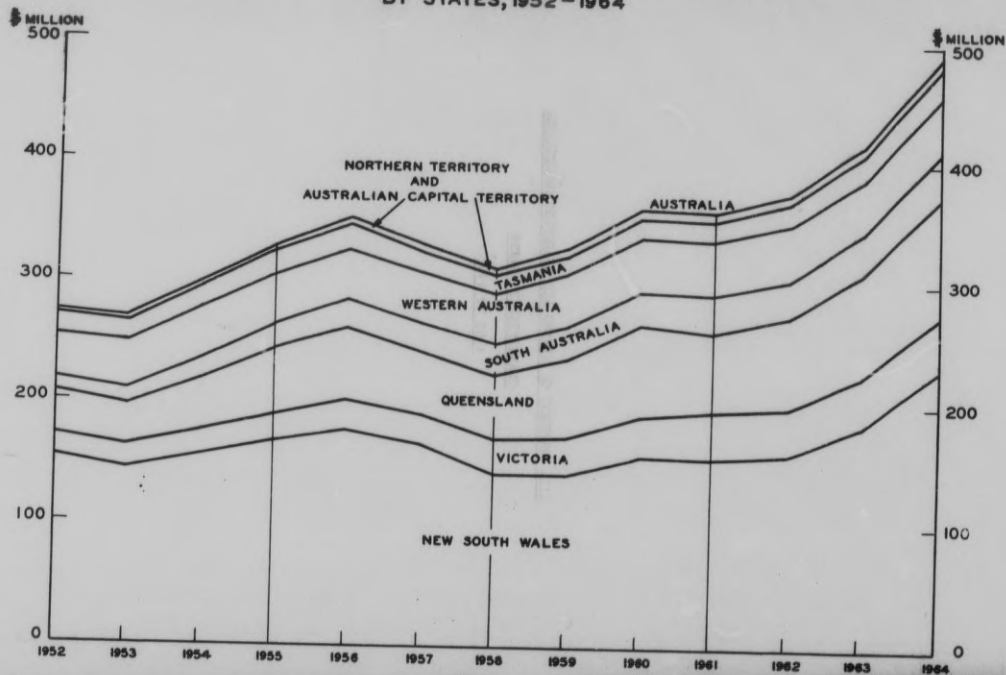
(a) Those employing four or more persons.

(b) Not available.

III. SUMMARY OF MINING AND QUARRYING OPERATIONSCLASSIFIED BY STATE1952 TO 1964



# VALUE OF OUTPUT, MINING AND QUARRYING BY STATES, 1952-1964



| Year | New South Wales | Victoria | Queensland | South Australia | Western Australia | Tasmania | N.T. and A.C.T. | Australia |
|------|-----------------|----------|------------|-----------------|-------------------|----------|-----------------|-----------|
|------|-----------------|----------|------------|-----------------|-------------------|----------|-----------------|-----------|

TABLE 10. - NUMBER OF MINES AND QUARRIES : ALL MINES AND QUARRIES

|      |     |     |     |     |     |     |     |       |
|------|-----|-----|-----|-----|-----|-----|-----|-------|
| 1952 | 693 | 278 | 477 | 541 | 245 | 71  | 34  | 2,339 |
| 1953 | 908 | 260 | 686 | 519 | 271 | 72  | 50  | 2,766 |
| 1954 | 855 | 254 | 475 | 391 | 440 | 65  | 85  | 2,565 |
| 1955 | 844 | 240 | 570 | 405 | 446 | 71  | 125 | 2,701 |
| 1956 | 836 | 227 | 595 | 417 | 439 | 80  | 127 | 2,721 |
| 1957 | 839 | 224 | 471 | 419 | 361 | 96  | 99  | 2,509 |
| 1958 | 808 | 228 | 413 | 412 | 313 | 109 | 50  | 2,333 |
| 1959 | 856 | 219 | 450 | 437 | 380 | 131 | 58  | 2,531 |
| 1960 | 945 | 217 | 461 | 376 | 360 | 122 | 80  | 2,561 |
| 1961 | 998 | 340 | 538 | 394 | 340 | 134 | 80  | 2,824 |
| 1962 | 991 | 350 | 578 | 381 | 352 | 152 | 104 | 2,908 |
| 1963 | 967 | 360 | 510 | 360 | 343 | 161 | 76  | 2,777 |
| 1964 | 936 | 469 | 544 | 336 | 339 | 174 | 94  | 2,892 |

TABLE 11. - NUMBER OF MINES AND QUARRIES : LARGER MINES AND QUARRIES ONLY (a)

|      |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1952 | (b) | (b) | (b) | (b) | (b) | (b) | (b) | (b) |
| 1953 | (b) | (b) | (b) | (b) | (b) | (b) | (b) | (b) |
| 1954 | 234 | 176 | 146 | 72  | 90  | 45  | 19  | 782 |
| 1955 | 268 | 179 | 134 | 87  | 75  | 43  | 18  | 804 |
| 1956 | 250 | 185 | 157 | 89  | 88  | 44  | 27  | 840 |
| 1957 | 256 | 170 | 173 | 86  | 91  | 54  | 29  | 859 |
| 1958 | 295 | 143 | 170 | 122 | 98  | 46  | 15  | 889 |
| 1959 | 286 | 141 | 165 | 107 | 119 | 56  | 16  | 890 |
| 1960 | 304 | 138 | 163 | 105 | 112 | 58  | 9   | 889 |
| 1961 | 294 | 190 | 162 | 109 | 107 | 56  | 11  | 929 |
| 1962 | 282 | 206 | 165 | 111 | 109 | 61  | 17  | 951 |
| 1963 | 277 | 208 | 162 | 98  | 100 | 63  | 16  | 924 |
| 1964 | 285 | 200 | 164 | 114 | 102 | 42  | 18  | 925 |

TABLE 12. NUMBER OF MINES AND QUARRIES : SMALL MINES AND QUARRIES ONLY

|      |     |     |     |     |     |     |     |       |
|------|-----|-----|-----|-----|-----|-----|-----|-------|
| 1952 | (b) | (b) | (b) | (b) | (b) | (b) | (b) | (b)   |
| 1953 | (b) | (b) | (b) | (b) | (b) | (b) | (b) | (b)   |
| 1954 | 621 | 78  | 329 | 319 | 350 | 20  | 66  | 1,783 |
| 1955 | 576 | 61  | 436 | 318 | 371 | 28  | 107 | 1,897 |
| 1956 | 586 | 42  | 438 | 328 | 351 | 36  | 100 | 1,881 |
| 1957 | 583 | 54  | 298 | 333 | 270 | 42  | 70  | 1,650 |
| 1958 | 513 | 85  | 243 | 290 | 215 | 63  | 35  | 1,444 |
| 1959 | 570 | 78  | 285 | 330 | 261 | 75  | 42  | 1,641 |
| 1960 | 641 | 79  | 298 | 271 | 248 | 64  | 71  | 1,672 |
| 1961 | 704 | 150 | 376 | 285 | 233 | 78  | 69  | 1,895 |
| 1962 | 709 | 144 | 413 | 270 | 243 | 91  | 87  | 1,957 |
| 1963 | 690 | 152 | 348 | 262 | 243 | 98  | 60  | 1,853 |
| 1964 | 651 | 269 | 380 | 222 | 237 | 132 | 76  | 1,967 |

(a) Those employing four or more persons. (b) Not available.

| Year | New South Wales | Victoria | Queensland | South Australia | Western Australia | Tasmania | N.T. and A.C.T. | Australia |
|------|-----------------|----------|------------|-----------------|-------------------|----------|-----------------|-----------|
|------|-----------------|----------|------------|-----------------|-------------------|----------|-----------------|-----------|

TABLE 13. - AVERAGE NUMBER OF PERSONS EMPLOYED DURING WHOLE YEAR : ALL MINES AND QUARRIES

|      | (a)    | (a)   | (a)   | (a)   | (a)   | (a)   | (a) | (a)    |
|------|--------|-------|-------|-------|-------|-------|-----|--------|
| 1952 |        |       |       |       |       |       |     |        |
| 1953 | 29,798 | 4,816 | 8,061 | 1,945 | 8,722 | 2,984 | 514 | 56,840 |
| 1954 | 29,397 | 4,707 | 8,282 | 1,921 | 8,887 | 2,861 | 407 | 56,462 |
| 1955 | 29,165 | 4,492 | 8,658 | 2,140 | 8,283 | 2,820 | 536 | 56,094 |
| 1956 | 28,305 | 4,547 | 9,339 | 2,098 | 8,030 | 2,866 | 666 | 55,851 |
| 1957 | 27,273 | 4,449 | 9,094 | 2,043 | 7,311 | 2,898 | 673 | 54,241 |
| 1958 | 24,984 | 4,302 | 8,276 | 1,987 | 7,451 | 2,594 | 545 | 50,139 |
| 1959 | 22,414 | 3,507 | 8,434 | 2,243 | 8,105 | 2,724 | 533 | 47,960 |
| 1960 | 22,207 | 3,853 | 8,454 | 2,153 | 7,791 | 2,799 | 501 | 47,758 |
| 1961 | 21,496 | 4,281 | 7,933 | 2,027 | 7,117 | 2,826 | 445 | 46,125 |
| 1962 | 20,656 | 4,207 | 8,064 | 2,036 | 7,053 | 2,726 | 483 | 45,225 |
| 1963 | 20,243 | 4,125 | 8,174 | 1,934 | 7,267 | 2,592 | 513 | 44,848 |
| 1964 | 20,257 | 4,250 | 8,016 | 2,049 | 7,037 | 2,548 | 655 | 44,812 |

TABLE 14. - SALARIES AND WAGES PAID : LARGER MINES AND QUARRIES ONLY (b)  
(\$'000)

| 1952 | 58,408 | 7,932  | 13,196 | 2,690 | 14,326 | 4,966 | 608   | 102,126 |
|------|--------|--------|--------|-------|--------|-------|-------|---------|
| 1953 | 57,796 | 8,216  | 13,334 | 2,844 | 15,680 | 5,700 | 528   | 104,098 |
| 1954 | 59,942 | 8,062  | 14,402 | 2,872 | 17,302 | 5,582 | 874   | 109,036 |
| 1955 | 62,782 | 8,830  | 18,410 | 3,428 | 16,690 | 5,966 | 1,126 | 117,232 |
| 1956 | 65,508 | 9,228  | 21,394 | 3,876 | 16,580 | 6,674 | 1,528 | 124,788 |
| 1957 | 63,838 | 9,274  | 20,842 | 3,848 | 16,858 | 6,861 | 1,772 | 123,296 |
| 1958 | 57,806 | 9,042  | 19,264 | 3,818 | 17,020 | 6,294 | 1,372 | 114,616 |
| 1959 | 54,168 | 9,116  | 22,088 | 3,834 | 17,690 | 6,552 | 1,524 | 114,972 |
| 1960 | 58,978 | 9,390  | 21,800 | 4,006 | 18,800 | 7,174 | 1,296 | 121,444 |
| 1961 | 59,250 | 10,522 | 21,126 | 4,316 | 17,526 | 7,302 | 1,438 | 121,480 |
| 1962 | 56,528 | 10,684 | 20,854 | 4,622 | 17,848 | 7,180 | 1,660 | 119,376 |
| 1963 | 57,444 | 11,016 | 22,228 | 4,648 | 18,622 | 7,426 | 1,720 | 123,104 |
| 1964 | 63,398 | 11,512 | 23,826 | 5,328 | 18,578 | 8,010 | 2,326 | 132,978 |

TABLE 15. - VALUE OF POWER, FUEL, LIGHT AND MATERIALS AND STORES USED : ALL MINES AND QUARRIES  
(\$'000)

| 1952 | 27,862 | 3,806 | 7,138  | 1,788 | 10,588 | 2,850 | 314   | 54,346 |
|------|--------|-------|--------|-------|--------|-------|-------|--------|
| 1953 | 28,608 | 4,104 | 8,756  | 2,304 | 12,026 | 3,290 | 246   | 59,334 |
| 1954 | 28,474 | 3,668 | 11,336 | 2,958 | 11,920 | 3,796 | 280   | 62,632 |
| 1955 | 29,964 | 4,096 | 10,320 | 4,120 | 11,206 | 4,264 | 752   | 64,722 |
| 1956 | 33,474 | 4,868 | 12,112 | 4,946 | 11,760 | 4,514 | 1,102 | 72,676 |
| 1957 | 34,158 | 5,568 | 13,532 | 5,104 | 12,180 | 5,048 | 1,028 | 75,238 |
| 1958 | 31,226 | 5,414 | 15,672 | 4,618 | 12,646 | 4,380 | 1,282 | 75,618 |
| 1959 | 29,518 | 5,668 | 17,696 | 5,022 | 14,044 | 4,482 | 1,230 | 77,560 |
| 1960 | 32,854 | 6,218 | 20,296 | 5,096 | 13,444 | 5,182 | 1,336 | 84,426 |
| 1961 | 34,974 | 7,096 | 17,372 | 5,618 | 13,886 | 5,512 | 1,154 | 85,812 |
| 1962 | 34,710 | 7,622 | 16,192 | 4,360 | 14,246 | 5,572 | 1,408 | 84,110 |
| 1963 | 35,642 | 7,188 | 22,136 | 4,594 | 14,070 | 5,838 | 1,618 | 91,086 |
| 1964 | 37,352 | 7,836 | 21,854 | 4,870 | 13,204 | 6,874 | 1,996 | 93,984 |

(a) Not available.

(b) Those employing four or more persons.

| Year | New South Wales | Victoria | Queensland | South Australia | Western Australia | Tasmania | N.T. and A.C.T. | Australia |
|------|-----------------|----------|------------|-----------------|-------------------|----------|-----------------|-----------|
|------|-----------------|----------|------------|-----------------|-------------------|----------|-----------------|-----------|

TABLE 16. - VALUE OF OUTPUT : ALL MINES AND QUARRIES  
(\$'000)

| 1952 | 154,194 | 17,070 | 34,858 | 12,094 | 35,408 | 17,500 | 2,564 | 273,688 |
|------|---------|--------|--------|--------|--------|--------|-------|---------|
| 1953 | 144,692 | 18,658 | 34,568 | 12,406 | 40,022 | 16,074 | 2,664 | 269,084 |
| 1954 | 156,404 | 20,160 | 43,204 | 17,160 | 41,472 | 17,910 | 2,496 | 298,806 |
| 1955 | 168,488 | 21,834 | 53,784 | 21,024 | 39,492 | 21,488 | 3,632 | 329,742 |
| 1956 | 177,580 | 23,782 | 60,408 | 23,820 | 40,460 | 21,110 | 5,480 | 352,640 |
| 1957 | 166,340 | 25,456 | 51,152 | 23,744 | 41,958 | 16,842 | 4,730 | 330,222 |
| 1958 | 142,828 | 27,388 | 55,264 | 24,616 | 41,554 | 14,716 | 5,544 | 311,910 |
| 1959 | 142,180 | 29,870 | 66,658 | 26,418 | 43,574 | 15,278 | 5,992 | 329,970 |
| 1960 | 159,282 | 32,534 | 75,216 | 27,904 | 44,332 | 16,134 | 7,078 | 362,480 |
| 1961 | 156,342 | 30,554 | 64,440 | 31,824 | 44,992 | 15,918 | 6,732 | 360,302 |
| 1962 | 159,288 | 40,016 | 74,198 | 30,774 | 46,490 | 17,806 | 5,926 | 375,138 |
| 1963 | 185,352 | 40,840 | 84,084 | 34,208 | 44,768 | 20,304 | 7,126 | 416,682 |
| 1964 | 232,708 | 44,892 | 97,286 | 38,938 | 45,366 | 25,048 | 7,972 | 492,208 |

TABLE 17. - VALUE OF PRODUCTION : ALL MINES AND QUARRIES  
(\$'000)

| 1952 | 126,332 | 13,264 | 27,720 | 10,306 | 24,820 | 14,650 | 2,250 | 219,342 |
|------|---------|--------|--------|--------|--------|--------|-------|---------|
| 1953 | 116,084 | 14,554 | 25,812 | 10,102 | 27,996 | 12,784 | 2,418 | 209,750 |
| 1954 | 127,930 | 16,292 | 31,868 | 14,202 | 29,552 | 14,114 | 2,216 | 236,174 |
| 1955 | 138,524 | 17,738 | 43,464 | 16,904 | 28,286 | 17,224 | 2,880 | 265,020 |
| 1956 | 144,106 | 18,914 | 48,296 | 18,974 | 28,700 | 16,596 | 4,378 | 279,964 |
| 1957 | 132,182 | 19,888 | 37,620 | 18,640 | 29,778 | 11,794 | 3,702 | 253,604 |
| 1958 | 111,602 | 21,974 | 39,592 | 19,998 | 28,908 | 10,336 | 4,262 | 236,672 |
| 1959 | 112,662 | 24,202 | 48,962 | 21,396 | 29,530 | 10,796 | 4,762 | 252,310 |
| 1960 | 126,428 | 26,316 | 54,920 | 22,808 | 30,888 | 10,952 | 5,742 | 278,054 |
| 1961 | 121,368 | 32,958 | 46,868 | 26,206 | 31,106 | 10,406 | 5,578 | 274,490 |
| 1962 | 125,218 | 32,394 | 58,006 | 26,414 | 32,244 | 12,234 | 4,518 | 291,028 |
| 1963 | 149,710 | 33,652 | 61,948 | 29,614 | 30,698 | 14,466 | 5,508 | 325,596 |
| 1964 | 195,358 | 37,056 | 75,432 | 34,068 | 32,162 | 18,174 | 5,974 | 398,224 |

TABLE 18. - VALUE OF ADDITIONS AND REPLACEMENTS TO FIXED ASSETS : LARGER MINES AND QUARRIES ONLY (a)  
(\$'000)

| 1952 | 20,170 | 1,774 | 4,844  | 3,236 | 4,200  | 1,230 | 614   | 36,068 |
|------|--------|-------|--------|-------|--------|-------|-------|--------|
| 1953 | 17,818 | 3,458 | 4,942  | 2,140 | 4,096  | 2,408 | 624   | 35,486 |
| 1954 | 13,314 | 3,622 | 4,116  | 2,242 | 4,314  | 1,680 | 1,258 | 30,546 |
| 1955 | 12,892 | 3,160 | 5,972  | 3,000 | 4,426  | 1,346 | 1,546 | 32,342 |
| 1956 | 16,616 | 6,328 | 7,342  | 3,080 | 4,476  | 1,364 | 2,254 | 41,460 |
| 1957 | 21,750 | 6,130 | 11,238 | 3,330 | 4,908  | 1,562 | 1,318 | 50,236 |
| 1958 | 17,544 | 5,916 | 7,136  | 2,060 | 4,590  | 1,200 | 530   | 38,976 |
| 1959 | 16,182 | 9,078 | 14,190 | 2,078 | 5,390  | 1,042 | 944   | 48,904 |
| 1960 | 21,330 | 5,714 | 8,320  | 2,588 | 4,238  | 1,114 | 488   | 43,792 |
| 1961 | 21,856 | 5,376 | 7,930  | 3,904 | 4,404  | 2,090 | 416   | 49,976 |
| 1962 | 25,800 | 8,484 | 13,174 | 2,626 | 7,798  | 1,380 | 704   | 59,966 |
| 1963 | 22,734 | 9,262 | 19,666 | 2,142 | 7,194  | 1,204 | 418   | 62,620 |
| 1964 | 23,842 | 8,746 | 25,992 | 2,316 | 12,088 | 1,060 | 3,150 | 77,194 |

(a) Those employing four or more persons.

IV. SUMMARY OF PETROLEUM EXPLORATIONTO THE END OF 1964

(Source : Bureau of Mineral Resources, Geology and Geophysics)

TABLE 19. - TOTAL EXPENDITURE ON PETROLEUM EXPLORATION IN AUSTRALIA AND PAPUA-NEW GUINEA (a)  
BY PRIVATE ENTERPRISE AND BY COMMONWEALTH, STATE AND BRITISH GOVERNMENTS,  
TO 31ST DECEMBER, 1964

| Origin of expenditure                                          | Expenditure | Percentage Contribution |
|----------------------------------------------------------------|-------------|-------------------------|
|                                                                | \$          |                         |
| PRIVATE ENTERPRISE -                                           |             |                         |
| To end of 1964 -                                               |             |                         |
| Funds of Australian origin                                     | 92,694,930  | 31.0                    |
| Funds of oversea origin                                        | 145,223,578 | 48.6                    |
| <u>Total private enterprise</u>                                | 237,923,508 | 79.6                    |
| GOVERNMENT -                                                   |             |                         |
| Prior to 1946 -                                                |             |                         |
| State Governments                                              | 3,084,000   | 1.0                     |
| British Government                                             | 50,000      | ..                      |
| Commonwealth Government - Grants                               | 324,398     | 0.1                     |
| Commonwealth Government - Other                                | 1,051,152   | 0.4                     |
| 1946-1964                                                      |             |                         |
| State and Territory Departments of Mines                       | 5,593,334   | 1.9                     |
| Commonwealth Government - Subsidy payments                     | 31,611,738  | 10.6                    |
| Department of National Development (excluding subsidy payment) | 19,244,800  | 6.4                     |
| Department of Interior, Topographic Surveys - Oil Search       | 200,000     | ..                      |
| <u>Total Government</u>                                        | 61,159,422  | 20.4                    |
| <u>TOTAL EXPENDITURE</u>                                       | 299,082,930 | 100.0                   |

(a) Details not available separately.

TABLE 20. - EXPENDITURE ON PETROLEUM EXPLORATION IN AUSTRALIA AND PAPUA-NEW GUINEA (a)  
BY COMMONWEALTH, STATE AND BRITISH GOVERNMENTS, TO DECEMBER, 1964

(\$)

| Period                 | NON-COMMONWEALTH  |                    |                        | COMMONWEALTH                                |                                            |                                                   |              |                      |              |                    |
|------------------------|-------------------|--------------------|------------------------|---------------------------------------------|--------------------------------------------|---------------------------------------------------|--------------|----------------------|--------------|--------------------|
|                        | State Governments | British Government | Total Non-Commonwealth | Prior to Department of National Development | Department of Interior Topographic Surveys | Department of National Development (since 1.7.50) |              |                      |              | Total Commonwealth |
|                        |                   |                    |                        |                                             |                                            | National Mapping                                  | B.M.R. (a)   | Subsidy payments (b) | Total        |                    |
| Total to 31.12.1945    | (c)3,084,000      | 50,000             | 3,134,000              | 1,375,550                                   | ..                                         | ..                                                | ..           | ..                   | ..           | 1,375,550          |
| 1.1.1946 to 30.6.1950  | }                 | ..                 | }                      | (a)                                         | ..                                         | ..                                                | ..           | ..                   | ..           | (d)                |
| 1.7.1950 to 30.6.1955  |                   | ..                 |                        | ..                                          | ..                                         | ..                                                | (c)2,000,000 | ..                   | (c)2,000,000 | (c)2,000,000       |
| 1.7.1955 to 31.12.1956 |                   | ..                 |                        | ..                                          | ..                                         | ..                                                | 852,000      | ..                   | 852,000      | 852,000            |
| 1957                   |                   | ..                 |                        | ..                                          | ..                                         | ..                                                | 182,000      | 675,200              | ..           | 857,200            |
| 1958                   | (c)4,784,000      | ..                 | (c)4,784,000           | ..                                          | ..                                         | 210,000                                           | 744,800      | 564,728              | 1,519,528    | 1,519,528          |
| 1959                   |                   | ..                 |                        | ..                                          | ..                                         | 306,000                                           | 905,600      | 1,197,854            | 2,409,454    | 2,409,454          |
| 1960                   |                   | ..                 |                        | ..                                          | ..                                         | 431,000                                           | 1,171,200    | 1,581,486            | 3,183,686    | 3,183,686          |
| 1961                   |                   | ..                 |                        | ..                                          | ..                                         | 572,000                                           | 1,522,400    | 2,695,600            | 4,790,200    | 4,790,200          |
| 1962                   |                   | ..                 |                        | ..                                          | ..                                         | 728,400                                           | 2,026,400    | 5,930,752            | 8,685,552    | 8,685,552          |
| 1963                   |                   | ..                 |                        | ..                                          | ..                                         | 844,400                                           | 2,238,200    | 10,519,208           | 13,601,808   | 13,601,808         |
| 1964                   |                   | 809,334            |                        | ..                                          | 809,334                                    | ..                                                | 200,000      | 968,200              | 2,867,000    | 9,121,910          |
| Total to 31.12.1964    | 8,677,334         | 50,000             | 8,727,334              | 1,375,550                                   | 200,000                                    | 4,242,000                                         | 15,002,800   | 31,611,738           | 50,856,538   | 52,432,088         |

(a) Refers to expenditure by the Bureau of Mineral Resources under the oil search section of its normal activities. (b) Refers to Commonwealth cash payments under the Petroleum Search Subsidy Acts. (c) Estimated. (d) Negligible expenditure on petroleum exploration by Department of Fuel, Shipping and Transport and by Department of Supply and Development from 1.1.46 to 30.6.50.

TABLE 21. - DISTRIBUTION OF COMMONWEALTH SUBSIDY PAYMENTS (a)

1958-1964

(\$)

| Year         | N.S.W.    | VIC.      | QLD.       | S.A.      | W.A.      | TAS.   | N.T.      | AUSTRALIA  | T.P. & N.G. | GRAND TOTAL |
|--------------|-----------|-----------|------------|-----------|-----------|--------|-----------|------------|-------------|-------------|
| 1958         | ...       | ..        | ..         | ..        | 127,268   | ..     | ..        | 127,268    | 437,460     | 564,728     |
| 1959         | 8,554     | ..        | 102,518    | 486,438   | 500,344   | ..     | ..        | 1,097,854  | 100,000     | 1,197,854   |
| 1960         | 33,446    | 187,890   | 721,496    | 105,480   | 116,460   | ..     | 9,758     | 1,174,530  | 406,956     | 1,581,486   |
| 1961         | 33,322    | 325,580   | 962,478    | 147,202   | 531,998   | ..     | 76,656    | 2,077,236  | 618,564     | 2,695,800   |
| 1962         | 325,252   | 303,672   | 3,731,212  | 680,704   | 658,984   | 40,074 | 77,422    | 5,817,320  | 113,432     | 5,930,752   |
| 1963         | 1,115,920 | 1,274,668 | 5,120,816  | 722,416   | 1,551,668 | 40,076 | 414,460   | 10,240,024 | 279,184     | 10,519,208  |
| 1964         | 550,126   | 624,162   | 4,184,142  | 993,570   | 1,895,134 | ..     | 473,190   | 8,729,324  | 392,586     | 9,121,910   |
| <u>Total</u> | 2,075,620 | 2,715,972 | 14,822,662 | 3,135,810 | 5,381,856 | 80,150 | 1,051,486 | 29,263,556 | 2,348,182   | 31,611,738  |

(a) Payments made under the Petroleum Search Subsidy Act 1957 and the Petroleum Search Subsidy Act 1959-1964.

TABLE 22. - EXPENDITURE ON PETROLEUM EXPLORATION BY PRIVATE ENTERPRISE  
TO 31ST DECEMBER, 1964

(\$)

| PERIOD         | N.S.W.     | VIC.       | QLD.       | S.A.       | W.A.       | TAS.       | N.T.      | AUSTRALIA   | T.P. & N.G. | GRAND TOTAL |
|----------------|------------|------------|------------|------------|------------|------------|-----------|-------------|-------------|-------------|
| To end of 1945 | 413,880    | 331,400    | 839,080    | 400,000    | 446,566    | (a)200,000 | ..        | 2,630,926   | 4,448,280   | 7,079,206   |
| 1946-1952      | (a)198,000 | (a)300,000 | 2,086,404  | 359,252    | 947,500    | (a) 50,000 | ..        | 3,941,156   | 16,988,562  | 20,929,718  |
| 1953           | ..         | ..         | 109,286    | ..         | 2,627,744  | ..         | ..        | 2,737,030   | 2,357,804   | 5,094,834   |
| 1954           | ..         | ..         | 356,610    | ..         | 2,674,494  | ..         | ..        | 3,031,104   | 5,097,930   | 8,929,034   |
| 1955           | 434,494    | 453,672    | 3,565,206  | 62,672     | 10,161,996 | ..         | ..        | 14,678,040  | 8,195,638   | 22,873,678  |
| 1956           | 447,402    | 1,030,844  | 1,429,992  | 272,170    | 7,300,664  | ..         | ..        | 10,481,072  | 9,037,498   | 19,518,570  |
| 1957           | 265,854    | 494,888    | 995,072    | 434,094    | 3,351,190  | ..         | ..        | 5,541,098   | 9,108,796   | 14,649,894  |
| 1958           | 304,560    | 533,654    | 776,136    | 474,744    | 2,712,268  | ..         | 128,718   | 4,930,080   | 6,163,632   | 11,093,712  |
| 1959           | 216,710    | 435,292    | 1,732,102  | 2,350,626  | 2,494,122  | ..         | 191,360   | 7,420,212   | 4,350,972   | 11,771,184  |
| 1960           | 251,022    | 1,622,582  | 4,378,782  | 342,250    | 1,847,332  | 23,266     | 374,662   | 8,839,896   | 3,650,622   | 12,490,518  |
| 1961           | 701,902    | 1,442,964  | 7,448,616  | 730,900    | 1,256,570  | 61,528     | 318,652   | 11,961,132  | 1,023,624   | 12,984,756  |
| 1962           | 2,642,266  | 2,652,614  | 12,556,056 | 2,171,344  | 3,567,228  | 80,434     | 739,332   | 24,409,274  | 748,420     | 25,157,694  |
| 1963           | 3,726,000  | 1,696,770  | 12,256,030 | 3,663,220  | 4,686,020  | 387,800    | 1,786,600 | 23,202,440  | 1,042,260   | 29,244,700  |
| 1964           | 1,955,474  | 2,708,114  | 13,620,436 | 3,592,472  | 9,670,614  | 85,376     | 3,415,046 | 35,047,532  | 1,058,478   | 36,106,010  |
| <u>Total</u>   | 11,557,564 | 13,702,794 | 62,149,808 | 14,853,744 | 53,744,308 | 888,404    | 6,954,370 | 163,850,992 | 74,072,516  | 237,923,508 |

(a) Estimated.



TABLE 23. - ORIGIN OF PRIVATE ENTERPRISE FUNDS SPENT ON EXPLORATION  
IN AUSTRALIA AND PAPUA-NEW GUINEA (a), TO 31ST DECEMBER, 1964

| Period         | Expenditure (\$) |                   |             | Percentage Contribution |                   |       |
|----------------|------------------|-------------------|-------------|-------------------------|-------------------|-------|
|                | Overseas origin  | Australian origin | Total       | Overseas origin         | Australian origin | Total |
| To end of 1959 | 90,213,842       | 31,725,988        | 121,939,830 | 74.0                    | 26.0              | 100.0 |
| 1960           | 4,312,126        | 8,178,392         | 12,490,518  | 34.5                    | 65.5              | 100.0 |
| 1961           | 8,474,032        | 4,510,724         | 12,984,756  | 65.3                    | 34.7              | 100.0 |
| 1962           | 11,423,478       | 13,734,216        | 25,157,694  | 45.4                    | 54.6              | 100.0 |
| 1963           | 12,573,234       | 16,671,466        | 29,244,700  | 43.0                    | 57.0              | 100.0 |
| 1964           | 18,231,866       | 17,874,144        | 36,106,010  | 50.5                    | 49.5              | 100.0 |
| <u>Total</u>   | 145,228,578      | 92,694,930        | 237,923,508 | 61.1                    | 38.9              | 100.0 |

(a) Details not available separately.

TABLE 24. - WELLS (a) AND FOOTAGE DRILLED (b) IN PETROLEUM EXPLORATION

TO 31ST DECEMBER, 1964

| State or Territory                                               | To 31st December, 1959 |           | 1960  |           | 1961  |           | 1962  |           | 1963  |           | 1964  |           | Cumulative totals to 31st December, 1964 |           |
|------------------------------------------------------------------|------------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|------------------------------------------|-----------|
|                                                                  | Wells                  | Footage   | Wells | Footage   | Wells | Footage   | Wells | Footage   | Wells | Footage   | Wells | Footage   | Wells                                    | Footage   |
| New South Wales                                                  | 38                     | 95,779    | 2     | 6,169     | 2     | 7,779     | 9     | 34,031    | 18    | 70,798    | 14    | 60,885    | 83                                       | 275,441   |
| Victoria                                                         | 143                    | 225,834   | 2     | 14,682    | 2     | 22,439    | 6     | 42,635    | 6     | 28,028    | 7     | 41,595    | 166                                      | 375,213   |
| Queensland                                                       | 87                     | 263,799   | 13    | 52,508    | 12    | 74,931    | 38    | 237,315   | 82    | 434,113   | 156   | 744,435   | 388                                      | 1,807,101 |
| South Australia                                                  | 88                     | 92,576    | ..    | ..        | 2     | 8,945     | 5     | 40,836    | 11    | 65,956    | 14    | 83,959    | 120                                      | 292,272   |
| Western Australia                                                | 85                     | 296,403   | 5     | 14,255    | 1     | 13,712    | 9     | 38,400    | 5     | 41,423    | 16    | 99,972    | 121                                      | 504,165   |
| Tasmania                                                         | 21                     | 14,000    | ..    | ..        | ..    | ..        | ..    | ..        | ..    | ..        | ..    | ..        | 21                                       | 14,000    |
| Northern Territory                                               | ..                     | (c)2,458  | 2     | 1,373     | 1     | 1,024     | 2     | 9,347     | 5     | 18,967    | 6     | 30,266    | 16                                       | 63,435    |
| Total Australia                                                  | 462                    | 990,849   | 24    | 88,987    | 20    | 128,830   | 69    | 402,564   | 127   | 659,285   | 213   | 1,061,112 | 915                                      | 3,331,627 |
| Cumulative total-Australia                                       | 462                    | 990,849   | 486   | 1,079,836 | 506   | 1,208,666 | 575   | 1,611,230 | 702   | 2,270,515 | 915   | 3,331,627 | ..                                       | ..        |
| Territory-Papua and New Guinea                                   | 39                     | 192,339   | 2     | 10,042    | ..    | ..        | 1     | 5,947     | 1     | 4,657     | 1     | 4,249     | 44                                       | 217,234   |
| Total-Australia and Territory of Papua and New Guinea            | 501                    | 1,183,188 | 26    | 99,029    | 20    | 128,830   | 70    | 408,511   | 128   | 663,942   | 214   | 1,065,361 | 959                                      | 3,548,861 |
| Cumulative total Australia and Territory of Papua and New Guinea | 501                    | 1,183,188 | 527   | 1,282,217 | 547   | 1,411,047 | 617   | 1,819,558 | 745   | 2,483,500 | 959   | 3,548,861 | ..                                       | ..        |

(a) Number of wells which reached total depth during each year; excludes holes which were uncompleted at end of year. (b) Total footage drilled in each year including footage of uncompleted holes. (c) This footage is accounted for by well(s) being drilled at the end of the year, but which were not completed until 1960.

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, A.C.T. 19TH MAY, 1966.

NOTE. - Inquiries concerning these statistics may be made in Canberra by telephoning 41971 extension 60 or, in each State capital by telephoning the office of the Bureau of Census and Statistics.

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COMMONWEALTH STATISTICIAN