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B R I T I S H G U I A N A

REPORT OF THE LANDS AND MINES DEPARTMENT - 1962

...

Lands and Mines Department,
Georgetown,
Demerara.
18th November, 1963.

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18th November, 1963.

The Honourable Minister of Agriculture,
Forests and Lands,
& The Honourable Minister of Trade and
Industry.

Sirs,

I have the honour to submit the following report on the work of the Lands and Mines Department for the year 1962.

2. The Lands and Mines Department was established under the provisions of the Lands and Mines Ordinance Chapter 170, and is vested with the responsibility for the Administration of Crown and Colony Lands.

3. Revenue collected during the year under review totalled \$1,131,729 as compared with \$997,078 in the previous year. This is the first occasion on which the revenue has exceeded one million dollars.

4. The following is a comparative statement of the revenue and expenditure for the preceding seven years:-

	<u>Revenue</u>	<u>Expenditure</u>
1956	\$ 912,943	\$ 561,369
1957	922,484	7472,241
1958	799,325	563,231
1959	823,893	501,853
1960	674,805	731,961
1961	997,078	697,808
1962	1,131,729	623,622

Appendices I & II 5. Details of revenue and expenditure for 1962 are given in Appendices I and II to this report.

SECTION I

LANDS

CROWN LANDS

6. Administration: Crown lands are administered under the provisions of the Crown Lands Ordinance Chapter 175, and Crown Lands Regulations made thereunder. Until 1938, Crown Lands were alienated under Conditional Purchase Grant which provided, where the conditions were observed, that the areas so alienated became freehold property at the end of the conditional period of five years. Since the issue of these Grants were discontinued in 1938, crown lands are only sold in special circumstances.

7. Leases for the term of 99 years with a right of renewal for a further period of 99 years were issued until 1942 when the term was reduced to 21 years with a right of renewal for a similar period.

8. In 1960, the term, in respect of agricultural and cattle grazing leases, was further revised to 25 years renewable for further periods of 25 years and the conditions were improved to encourage beneficial occupation of the areas leased and to provide adequate security of tenure. In special circumstances, however, Licences of Occupancy or Leases may be issued under such terms and conditions as the Governor may think fit.

9. The Government has for the past few years been pursuing a policy aimed at promoting the development of lands which are not beneficially occupied. Landless persons are selected, who organise themselves into Co-operative Societies and are allocated large tracts of Crown lands for agricultural/dairying purposes. Technical advice is afforded these Co-operative groups by Government in the provision of drainage and irrigation for the areas, and financial assistance, by way of loans at normal interest rates, is provided by the British Guiana Credit Corporation for the purchase of agricultural machinery and to assist with the cost of development.

10. The following acreages have been allocated to Co-operative groups:

1958	-	2575	acres
1959	-	4057	"
1960	-	9259	"
1961	-	11,306	"
1962	-	11,945	"

11. Applications: During 1962, the total number of applications approved for various titles over Crown land was 487 as compared with 508 during the preceding year and embraces a total area of 34,080 acres as compared with 21,285 acres in the previous year.

Details of the various types of applications approved are found at Appendix III.

Appendix III

12. Issue of Titles: During the year under review, 319 titles for agricultural, grazing, residential and business purposes over a total of 51,706 acres of Crownland were issued. Of these 144 covering a total of 42,398 acres were re-issues of expired titles. In addition to this 17 permissions covering 533 square miles in the hinterland savannahs were renewed.

A comparative statement of titles issued during the years 1960 to 1962 is to be found at Appendix IV.

Appendix IV

13. Working Party: The Working Party appointed in 1956 for the purpose of inspecting land holdings throughout the country and reporting on the development and utilisation thereof, continued this work during the year.

In November, 1961 the Chairman was instructed by the Honourable Minister for Agriculture, Forests and Lands to resurvey every holding at the Vergenoegen Land Settlement, check the occupation of each plot and list the settlers holdings. The Superintendent of the Settlement and most of his staff were withdrawn on the 6th January, 1962 and on the 8th January the Working Party comprising Mr. G.F. Messervy, Chairman, Mr. C.A. Cole, Member, and two surveyors moved in and set up headquarters at the Superintendent's house at Vergenoegen.

Preliminary work of checking each plot with the holder, for the purpose of establishing his rights and also to ensure that there was agreement on the common boundary between neighbours, was started immediately.

Subsequently every plot on the settlement was re-surveyed and new boundary marks put down.

Including the plots controlled by the Agriculture Department the total number surveyed and the aggregate acres are as follows:-

<u>Estate</u>	<u>No. of Flots</u>	<u>Acreage</u>
Vergenoegen - East	64	502.30 Acres
" - West	69	536.53 "

/Philadelphia

<u>Estate</u>	<u>No. of Plots</u>	<u>Acreage</u>	
Philadelphia	54	527.01	Acres
Barnwell	168	697.77	"
Greenwich Park - East	116	532.49	"
" " - West	78	582.80	"
	<u>549</u>	<u>3,378.90</u>	Acres

14. During the course of the survey the Party carried out checks to ascertain the extent of encroachment by settlers on the reserves laid out for Drainage and Irrigation works which included information of the location and dimension of Khaliaans, Marais, etc., many of which may have to be removed. The data obtained will be of valuable assistance to the Drainage Board in the event that compensation is to be paid to the settlers. In addition the Party was required to settle disputes between the settlers and advise the settlers Committee and the Settlers on various matters in connection with the working of the Scheme; making out applications, etc.

The work was completed within the period of six months estimated and the plans and lists of every section and holding on the settlement were completed during 1962.

In the latter part of the year commencing from September, inspection of agricultural and grazing holdings in the Mahaicony, Mahaica, Boerasirie-Hubabu and Abary Rivers were carried out and a total of 143 tracts were examined, covering a total area of 10,335 acres.

The following table shows the inspections carried out during the last 4 years:

<u>COUNTY OF DEMERARA</u>	<u>No. of</u>	<u>1959</u>	<u>Acres</u>	<u>tracts</u>	<u>1960</u>	<u>tracts</u>	<u>1961</u>	<u>tracts</u>	<u>1962</u>
		<u>Tracts</u>			<u>acres</u>		<u>Acres</u>		<u>Acres</u>
West Coast	1	500	-	-	-	-	-	-	-
West Bank	120	5,100	-	-	2	132	60	120	
East Bank	-	-	-	-	-	-	-	-	
East Coast	176	43,777	19	6,944	2	539	-	-	
Mahaica River	403	34,175	-	-	4	4,260	4	2,640	
Mahaicony River	16	9,086	11	1,612	24	8,966	63	7,075	
Abary River	19	38,400	5	13,499	6	5,200	16	500	
<u>COUNTY OF ESSEQUIBO</u>									
Essequibo Coast	2	500	237	27,225	-	-	-	-	
Essequibo River									
Including Islands	16		11	870	-	-	-	-	
Mazaruni River	16	353	-	-	-	-	-	-	
<u>COUNTY OF BERBICE</u>									
West Coast	1	375	1	961	-	-	-	-	
Canje River	-	-	-	-	1	1,500	-	-	
	<u>754</u>	<u>178,160</u>	<u>284</u>	<u>51,111</u>	<u>39</u>	<u>20,597</u>	<u>143</u>	<u>10,335</u>	

Several spot inspections were carried out for settlement of disputes, adjusting occupation, etc.

Applications for issue of title continue to be "screened" by the Party before submittal to Government for consideration and applications for transfer of titles were similarly treated.

15. Recent Trends: Within recent years, an increasing amount of Crown land, in the Alluvial Coastal Belt and lower riverain areas, has been empoldered and put under rice. Although the number of applications for land decreased during 1962 there was an increase in the number of applications from groups of farmers who are desirous of developing crown land on a co-operative basis. The utilisation of hitherto undeveloped Crown land for agricultural purposes is both difficult and costly. Government has however been encouraging the development by giving advice through the various technical departments. Loans are being made available by the British Guiana Credit Corporation, to these Societies, as well as to small farmers to assist in the development of their holdings.

Plans have been completed for the proposed Jackson and Moleson Empolders on the left bank of the Corentyne River and also the proposed Cattle Pasture in the rear of Black Bush Polder Land Development Scheme. These Schemes, however, have not been implemented owing to the shortage of finances and allocation of land in these areas has not been possible.

During the year a ^{Team} ~~time~~ of Consultants from the United Nations began an examination of the Greater Canje Area. The implementation of Stage I of the Mahaica-Mahaicony-Abary Scheme had to be delayed further due to the lack of finances, but land within this project is still being allocated in conformity with the proposed works of the project and the recommended zoning for intensive agricultural and cattle grazing purposes.

COLONY LANDS

16. Administration: This Department administers all lands including those alienated for various purposes under the provisions of the Lands and Mines Ordinance Chapter 170. Where Government buildings have been erected on Colony Lands the Director of Public Works exercises control over such lands.

By Order in Council No. 91 of 1960 the Governor-in-Council delegated, to the Minister charged with the responsibility for this department, the power to sanction the renting or sale of Colony land on terms and conditions determined by the Governor-in-Council. Under special directions however, the Governor-in-Council directed that the powers delegated under Order-in-Council No. 91 of 1960 shall be exercised in respect of the renting of land only where the rent does not exceed \$50.00 per annum and in the case of the sale of land only where the selling price does not exceed \$1,000.00.

Properties acquired by Government during 1962.

<u>County</u>	<u>Area</u>	<u>Description</u>	<u>Purchase Price</u>
Demerara	35,811	Portion of Pln. Ruimveldt East Bank Demerara	\$25,067.70
do	-	South half of Lot 21 Stabroek, Georgetown	65,000.00
do	0.3304	Lot "A" portion of Pln. Hope, East Coast Demerara	1.00
Berbice	4,609.0	Lesbeholden, Black Bush Polder.	Free Grant
do	367.187	Pln. Mara East Bank Berbice.	do

FORESTS

17. Administration: As from 1st January, 1960 the collection of revenue from all forest products (except balata) extracted from the Crown Forests was taken over from this Department by the Forest Department which controls the Crown Forests.

/This Department

This Department continues to administer forest activities over Crown land outside the boundaries of that portion of the Colony which was declared to be Crown Forest under the Crown Forest Ordinance.

A comparative statement of applications approved for wood-cutting and other forest titles for the years 1960 to 1962 is at Appendix V.

Appendix V

18. Balata: During the year 453,642 pounds of balata were produced as compared with 505,242 pounds produced the previous year.

19. Quarries: Quarrying operations continued on a moderate scale during the year on nine quarries situate on Crown lands and 24,511.26 tons of stone were produced. This was 33,094.76 tons less than 1961.

20. Seizures: No seizures were made during the year in respect of forest produce illegally removed from Crown land.

SECTION II

SURVEYS

21. During the year under review, 354 surveys were executed embracing a total area of about 12,146 acres. The number of outstanding surveys rose owing to the increased number of applications approved for Crown Lands for residential, agricultural and grazing purposes while the available survey staff were diverted to cope with more urgent survey work for Land Development Projects.

The comparative table below reviews the position during the past five years:

	1958	1959	1960	1961	1962
Ripe for survey during the year	251	790	487	301	446
Total number to be executed	813	1,251	1,522	1,472	1,702
Number of surveys executed	352	261	351	216	354
Number of surveys outstanding	461	1,035	1,171	1,256	1,348

Of the 354 surveys completed, 4 were executed with chain and compass and embraced an area of about 13,000 acres. The remaining 350 were precise surveys with Theodolite and 100 ft. Steel Band Chain a total of approximately 10,846 acres. The Working Party under the Chairmanship of Mr. G.F. Messervy supervised the resurvey and reallocation of land at Vergenoegen. 21 Mining Claims were varified during the year.

The ever increasing demand for copies of plans for the various development projects being carried out, such as Soil Surveys, Land Registration, Local Government reform and from the public continued to impose a heavy strain on the much overworked staff which is still well below full strength.

/ In addition

In addition to the normal duties, the staff of the Survey Section continued to render special services to other Government Departments and Agencies by preparing and compiling maps, tracings and prints to the estimated value of \$5,030.00.

Surveyors were engaged on surveys for the following Departments:-

- | | | |
|-----|---|---|
| (a) | Ministry of Natural Resources
(Land Development Section) | - Survey of Black Bush Polder |
| (b) | " " " " | - Survey of Vergenoegen |
| (c) | " " " " | - Survey of Wauna/Yarikita Scheme |
| (d) | " " " " | - Survey of Pln. Kortberaad Zorg-en-Vlyt East Berbice. |
| (e) | Commissioner of Title | - Survey of Plns. Ross, Yeovil and Chester - W.C. Berbice. |
| (f) | " " " " " | - Survey of Plns. Britannia and Temple |
| (g) | " " " " | - Survey of Pln. Arcadia |
| (h) | " " " " | - Sub-division of a portion of railway lands at Rosignol |
| (i) | " " " " | - Survey of Lot No. 8 or Inverness, West Coast, Berbice |
| (j) | " " " " | - Survey of Plns. Belle Vue to Pln. Wales - West Bank Demerara. |
| (k) | " " " " | - Survey of Two Brothers - Sarah's Rust, West Bank, Demerara. |
| (l) | Ministry of Education and Social Development | - School Site La Grange, West Bank Demerara River. |
| (m) | " " " " | - School Site at Pln. Burma, East Coast, Demerara. |
| (n) | Other Surveys executed during the year | - Survey of farm plots at Anna Regina, Reliance, and Bush Lot, Essequibo. |
| (o) | | - Survey of Crown Lands in rear of Plns. Sandvoort to Best Coffe Lands, Canje, Berbice. |
| (p) | | - Inspection of Lots 1 - 9 at Christianburg. |
| (q) | | - Inspection of occupation in the Boerasirie Empolder. |
| (r) | | - Survey of House Lots at Philadelphia. |

/During ...

During the year, 421 plans of surveys executed by Sworn Land Surveyors were recorded exclusive of those for the issue of leases over Crown Land and Colony Land.

CARTOGRAPHIC SECTION

22. During 1962 the Cartographic Section was chiefly engaged on the preparation of cadastral plans for use in the Survey Section. Plans by various Government Surveyors of portions of Black Bush Polder were checked and corrected. They were then used in the compilation of a cadastral plan of the entire Black Bush Polder Settlements embracing an area of approximately 60 square miles. The compilation of a cadastral plan of the West Coast, Berbice area was started during the year and progress thereon is satisfactory.

No field work was possible by the Cartographic Section because, for the greater part of the year, the staff comprised only of the Acting Cartographer and the Senior Drawing Office Assistant.

In addition to his other duties, the Acting Cartographer was appointed by His Excellency the Governor as Electoral Registrar for the No. 23 - Houston Electoral District. The revision extended over a period of about 2½ months.

No contract for aerial photography was awarded during the year. However, aerial photography was taken by the Royal Air Force from September to December. A preliminary report indicates that the operation was reasonably successful.

The printing machine continued to give satisfactory service to various Government Departments as well as to members of the public. Over 3,000 prints valued at \$4500 were made during the year.

SECTION III

M I N E S

G E N E R A L

Appendix VI

23. Concessions and Leases: Mining titles in existence during 1962 are shown at Appendix Vi.

Licences: 1210 claim licences and 194 river location licences were in existence at 31st December, 1962.

Appendix VII

Exclusive Permissions: Exclusive permissions in force during 1962 are listed in Appendix VII.

Prospecting Licences: 967 prospecting licences were issued during the year. No licences to prospect for radio-active minerals were issued during 1962.

Trading Licences: 111 licences to trade in gold and/or diamonds were issued, while 94 licences to purchase gold for the manufacture of jewellery were issued.

Mineral Production and Export: The quantity and value (f.o.b.) of minerals exported are kindly furnished by the Customs Department. The export figures shown below are provisional and relate to the period January to August, 1962.

<u>Mineral</u>	<u>Quantity Produced</u>	<u>Quantity Exported</u>	<u>Value of Export \$ BWP</u>
Gold (Troy ounces)	1,903	-	-
Diamonds (metric carats)	100,145	56,866	2,397,705
Bauxite (long tons)			
- calcined)	2,718,997 x	262,493 x	9,961,366
- other)		934,832	10,301,132
Alumina (long tons)	225,459	140,900	#14,993,183
Manganese (long tons)	271,103	128,123	3,712,889
			<u>\$41,366,275</u>

Total value in 1961 - \$51,066.930

(# Total value of Export for Alumina in 1961 should read \$12,083,588) and not \$3,083,588.

~~x~~ ex Mackenzie

~~xx~~ Total Production

24. Revenue: Revenue from mining amounted to \$948,023 which is \$114,946 more than for 1961, the increase being due to increased exports of bauxite and also increased Royalty on bauxite processed into Alumina and on Manganese.

25. Legislation: Ordinance No. 13 of 1962 - The Mining (Amendment) Ordinance, 1962 - amended Sections 14, 16, 19 and 20 of the Mining Ordinance to remove the need to obtain the approval of the Secretary of State for the granting of concessions, exclusive permission, or absolute grant, and of concession for an area larger than one thousand acres.

The amendment also stipulates that wherever in the Mining Regulations the approval of the Secretary of State was required, such approval shall no longer be required.

Section 90 of the Mining Ordinance was repealed and a new Section substituted therefor, providing that all sums of money collected under the Mining Ordinance and the Mining Regulations shall be paid into the Treasury for the use of the Colony.

(BILL 13/1962 (S)) (M.P.L.M. 58/16/2/89)

The Governor, on the 3rd day of February, 1962, delegated to the Minister of Trade and Industry the powers mentioned below:

Powers Delegated	Enactment
(a) To approve of the issue of a licence to mine for gold, silver, valuable minerals, precious stones, etc. (i.e. a claim licence)	Section 32 (1) The Mining Ordinance Chapter 196.
(b) To approve of the transfer of a claim licence.	Section 35(4) The Mining Ordinance Chapter 196.
(c) To authorise the forfeiture of gold silver, precious stones and substances of a like nature seized by an officer, to which no claim has been made or sustained within six months from the date of seizure.	Section 86(3) The Mining Ordinance Chapter 196.
(d) To authorise the export of precious stones other than through a bank.	Regulation 201 The Mining Regulations Chapter 196.
(e) To authorise persons other than wholesale dealers to import explosives into the Colony.	Section 10 (1) The Explosives Ordinance Chapter 346.

26. Closure of areas: No areas were closed to prospecting/mining due to the occurrence of significant mineral deposits of importance to the national interest.

The following creeks were reserved for drinking purposes; Karwassa creek, right bank Kiwiparu Creek, and a portion of Arakaparu creek, right bank Echilebar river, Rupununi district;

Those portions of Kiwiparu creek and Arakaparu creek previously reserved for drinking purposes, were de-reserved.

27. Seizures: No seizures were effected. There were 4 detentions of diamonds during 1962.

28. Sales on behalf of Amerindians: The Department continued to dispose of gold and diamonds won by Amerindians until an arrangement was made with the Interior Department by which the Assistant District Commissioner, Mazaruni handles such sales through the Trade Store at Kamarang - 2 ounces of gold and 399 carats of diamonds were sold in Georgetown for the year.

29. Labour: 3300 mining privileges and 57 registration certificates were issued. The average labour force employed directly

/on mining

on mining was as follows:-

<u>Mineral</u>	<u>Approximate number of Workers employed.</u>	<u>Approximate number of persons working on their own behalf.</u>
Gold	20	100
Diamonds	-	4,900
Bauxite	4,000	-
Manganese	600	-
	<u>4,620</u>	<u>4,100</u>

30. Accidents: A classification of the 122 reportable accidents which occurred in connection with mining operations is given below:

<u>Cause</u>	<u>Fatal</u>	<u>Serious Injury</u>	<u>Temporary Incapacity</u>	<u>Minor</u>	<u>Total</u>
Electricity	-	-	1	-	1
Explosives	-	-	-	-	-
Machinery	-	4	7	8	19
Handling tools	-	-	1	6	7
Falling or struck by a falling body	1#	4	13	29	47
Diving	-	-	-	-	-
Miscellaneous	2 **	2	9	35	48
TOTAL	<u>3</u>	<u>10</u>	<u>31</u>	<u>78</u>	<u>122</u>

Owen Charles: employed by Demerara Bauxite Company Limited. A transmission line pole which he was assisting to plant got out of control and fell on him.

** Michael Peters: employed by Demerara Bauxite Company Limited, was driving a railroad scooter when it crashed into a stationary ore train.

** Augustus Henry: employed by Rio Rupununi Mines Limited was working in an open pit at Marudi Mountain, Rupununi when there was a fall of earth.

31. Use of Explosives: Five blasting certificates were issued by the Commissioner of Lands and Mines.

32. Mine and Quarrying Inspections: Mr. C.S. Cole, Inspector of Mines, returned to the Colony at the end of April and thereafter spent 10 days in the field on inspections covering quarrying and mining operations. While on vacation leave Mr. Cole attended the United Nations Inter-Regional Seminar on Techniques of Petroleum Development held in New York from the 23rd January to 21st February, 1962.

33. Hydro-Electric Power Development: Tumatumari station continued on a care and maintenance basis.

Demerara Bauxite Company Limited continued routine measurements of river stage in the main rivers of the Colony.

34. Mining Disputes: Three complaints and four challenges under the Mining Regulations were filed during the year. Of these three complaints and three challenges were disposed of.

EXPLORATION

Appendix VIII

35. A total area of 5,697,233 acres were covered by exclusive permissions, details of which are given at Appendix VIII. No work was done in exclusive permissions not specifically referred to below.

BAUXITE

36. Demerara Bauxite Company Limited: completed exploration of the areas held under exclusive permissions Nos. 446 and 563 and abandoned them with effect from the 31st December, 1962.

Surface exploration and drilling continued in permissions 445, 500, 561, 564 and 588, the extent of the work done on all areas during 1962 being as follows:

Line Cutting	486 miles
Surveying	711 "
Roadmaking	60 "
Creek Traverses	18 "
Drilling	21,617 feet

The drilling programme was carried out with Solite type drills and diamond drills and 234 holes were drilled as shown below:

Diamond Drill	184
Empire Drill	24
Solite Drill	26
	<u>234</u>

Of these holes:

7	intersected bauxite
4	" bauxitic material with a high iron content
5	" bauxitic material with a high silica content
24	" aluminous clays
26	" laterite

The remaining holes encountered residual clays and material of no interest, while several of them were abandoned in sediments of the Berbice Formation (White Sand Series), in some cases at a depth of 333 feet the limit of the Solite drill.

Drilling below known bauxite horizons was undertaken in connection with the paleontological investigations being carried on by the Company.

37. Reynolds Metals Company Continued surface investigation in exclusive permissions Nos. 391, 431, 458, 557, 558, 559 and 560 and 597.

The following summary indicates the extent of the work done during 1962:

Number of holes drilled	319
Footage drilled	68,085
Number of samples taken	150
Drilling lines cut and surveyed	131 miles
other lines cut and surveyed	12 "
Other surveys	34 "
Road construction	43 "
Access road construction	18 "
Roads maintained	210 "
Bridges reconstructed	371 feet

/Part of

Part of this programme was directed towards confirming the undulating nature of the Canje deposit. Poor material on the 'highs' and fair grade bauxite on the 'lows' were encountered, the latter being covered by some 200 to 250 feet of overburden.

On the Corentyne section two Solite drills were in operation throughout the entire year, assisted temporarily by a Mayhew 500 drill. A new exploration area, which blankets the left and right banks of the Bissaruni river was opened up. Exploration has shown that ferro-bauxite was formed on dolerite dykes which are buried under 150 to 200 feet of sand.

Samples taken were shipped to Leiden University for a determination of their pollen content.

38. Harvey Aluminum of America abandoned all of their Exclusive Permissions during the first half of 1962 and discontinued further exploratory work for bauxite in British Guiana.

39. Petromina (B.G.) Ltd. continued exploratory work in exclusive permissions Nos. 575 and 604. The main areas of reconnaissance were the lower Mahdia River and trail, the Konawak trail and the Tiger River trail. The main masses of laterite were examined and compared with those drilled to the south and south-east of Mahdia airstrip. Particular attention was paid to creeks and to the margins of the White Sand deposits for bauxite or lateritic - bauxite float.

It was established that much of the lower Mahdia River laterites overlie epidiorites. The extensive lateritic sheets were almost identical to those encountered south and south-east of the Mahdia airstrip.

The laterite found in the lower Mahdia river area has a higher alumina content than that found in the dark red laterites further south of the airstrip, east of Mahdia; the superficial hard vesicular crust is indicative of a high iron content.

MANGANESE

40. Manganese Mines Management Limited, acting on behalf of North-West Guiana Mining Company Limited, continued exploratory work in the area held under exclusive permission No. 603. As a result of the work done, 385,000 acres were abandoned with effect from the 1st July, 1962.

One of the Company's geologists spent six weeks in the United States of America on a course of instruction in the use of Induced Polarisation as geophysical method in the detection of Manganese Oxides.

Exploration for manganese by Induced Polarisation was first suggested after laboratory tests had shown that oxidised manganese ore was moderately conductive and could produce high frequency effects.

The first field tests in the application of Induced Polarisation for the detection of manganese oxides were carried out in Ghana, and as a result of these tests it was decided to use the I.P. equipment as a geophysical tool for the detection of manganese oxides in British Guiana.

PIPIANI AREA

The I.P. Exploration Party which visited Pipiani included a Company Geologist and two geophysical consultants. During the work, which was carried out in September, six I.P. lines were run at right angles to the ridge, with dipole distances of 100 feet (this gives a linear coverage of readings of up to 1,100 feet on the surface of the ground).

/These I.P.

These I.P. lines, which followed the original geological prospect lines of 1954, confirmed the earlier geological mapping.

MATTHEWS RIDGE AREA

Exploratory I.P. lines were also run at Matthews' Ridge outside the present mining area to probe the nature and depth of the continuations of the ore horizon.

The method has proved capable of distinguishing a manganese horizon from barren country rock. However, much remains to be done, notably in relating anomalies to grade and recovery factors, without which the true value of the method will remain unproven. This work continues and may later involve the use of drilling for its true evaluation.

Although not a cheap method of exploration, results to date indicate that the study should be completed.

GOLD

41. Carib Alluvials Limited was issued with exclusive permission No. 606. A brief preliminary reconnaissance in the Murawawe area was done during 1962.

DIAMONDS

42. No companies were engaged in exploring for diamonds.

OIL

43. No exploratory licences were in force during the year.

The application by Gulf States Land and Industries Incorporation for an Oil Exploration Licence over an off-shore area of 8,450 sq. miles is still under consideration by Government.

COLUMBITE

44. Columbium Corporation did no exploratory work during the year.

RADIO-ACTIVE MINERALS

45. No licences for radio-active minerals were in existence during 1962.

PRODUCTION AND DEVELOPMENT

BAUXITE

Appendix IX

46. Bauxite production for the last 5 years is shown in Appendix IX.

47. Bauxite production for 1962 was 2,718,997 tons as compared with 2,373,615 tons for 1961, an increase of 345,382 tons.

The operating efficiency of the alumina plant improved continuously throughout the year. As a result, alumina production rose from 120,161 tons in 1961 to 208,042 tons in 1962, an increase of 87,881 tons.

1098
48. The Demerara Bauxite Company Limited sold a total of 1,395,850 tons of bauxite during 1962 as compared with 1,282,809 tons in 1961, an increase of 113,041 tons. The sale of calcined products increased considerably. The total sales of these products amounted to 366,573 tons. The quantities of various grades were as follows:-

Metallic	-	959,742	tons
Chemical	-	69,535	"
Refractory	-	219,164	"
Abrasive	-	147,409	"
		<u>1,395,850</u>	tons

Note: Metallic and Chemical grades consist of dried bauxite.

Abrasive and Refractory grades consist of calcined bauxite.

This record production was made possible through the conversion in 1961 of one of the Company's kilns for calcining operations. A modern "parallel flow" drying kiln, measuring 130 feet long with a diameter of 11½ feet, was put into operation at Mackenzie in June. The performance of this plant was exceptionally good, the design capacity being exceeded by over 30%. Kiln No. 1 which became excessively expensive to operate was dismantled late in the year.

The production per mine was as follows:-

Arrowcane	569,546	tons
Montgomery	358,841	tons
Maria Elizabeth	807,343	tons
Warababaru 3	474,690	tons
Hariwa	5,259	tons
Noitgedacht	<u>30,410</u>	tons
	<u>2,246,089</u>	tons

A total of 9,884,800 cubic yards of overburden was removed.

In March a bucket wheel excavator for use on stripping operations in the Arrowcane mine was commissioned by the Minister of Trade and Industry. This machine, of West German manufacture, and capable of removing sand at the rate of 1,000 tons per hour, was purchased at a cost of approximately \$4 million.

Stripping operations were carried out in the main using the wheel excavator,, one 480-W dragline, two 450-W draglines and two sand pumps. Small draglines, bulldozers and scraper units were used to assist in these operations.

In October the company took delivery of a De Havilland amphibious aircraft. The aircraft is used to supply exploration parties in the field and to fly supplies to the river gauging stations maintained by the Company. Some of the Company's business traffic between Mackenzie and Georgetown is also handled by the aircraft.

The total number of employees rose to 3,548 at the end of 1962, an increase of 134 as compared with 1961.

49. Reynolds Metals Company produced 472,908 tons of bauxite from Mombaka & Wong Mines.

Development work was carried out on Mining Leases Nos. 581 and 582.

On 16-Bissaruni, the western part of the deposit was redrilled to guide future stripping operations. More information was acquired on the thickness of overburden and on the distribution of the impurities. Drilling and sampling on a close spacing is of prime importance on this type of deposit.

That section of deposit, bordering the Bissaruni river is completely contaminated with sands and clays because of stream action. Old creek channels on the deposit surface are filled with a mixture of bauxite pebbles and clays.

Close to the river the watertable intersects the deposit. Active silica, migrating downwards with percolating water, resilicifies the bauxite and such planes of intersection. These are marked by massive greenish kaolin replacing the gibbsite. Cherty kaolin in higher parts show, that also there but to a minor extent, aggressive silica successfully attacked the gibbsite.

In order to satisfy scientific curiosity, samples of clays from the contaminated zone were handed to Mr. Wymstra, Leiden University, to see whether the Bissaruni valley is Mio-Pliocene or very recently formed.

A few locations on the 14-Wikki deposit were check-drilled with a Mayhew 500 drill. This was merely done to compare the results from the old core drilling by Empire drill. Redrilling of a few additional locations is necessary to answer some open questions.

GOLD

Appendix X

50. Gold production for the past 5 years is shown at Appendix X .

Gold production was 1903 ounces as compared with 1702 ounces for 1961. No significance is attached to the increase of 201 ounces and no substantial increase in production is expected as long as production remains entirely dependent on small-scale surface washing operations by pork-knockers.

51. Production for 1962 was entirely due to the effort of individual operators, the chief production area again being the North West which returned 932 ounces, most of this coming from the upper Barima-Barama area. Cuyuni returned 490 ounces, most of which was won from the upper Cuyuni/Wenanu area close to the Venezuelan border.

The 2 dredging concessions held by B.G. Consolidated Gold-fields Limited in the Potaro remained on a care and maintenance basis throughout the year. An option for the purchase of the Company's properties was granted by the Manager/Receiver of the Company.

Operations by Barima Minerals Limited on dredging concession No. 494 at Arakaka in the North West produced only 7 ounces of gold.

R.G. Humphrey produced 4 ounces of gold from mining concession No. 605 situate on the left bank Kaburi.

/52. DIAMONDS

Appendix XI

DIAMONDS

52. Diamond production for the past 5 years is shown at Appendix XI.

53. Diamond production decreased from 112,680 carats in 1961 to 100,145 carats for 1962. The decrease of 12,535 is attributed to the decline in operations in the Ekreku River, Cuyuni.

54. Production was entirely due to the efforts of small-scale individual operators on land claims and river locations. Main producing areas were Eping Gorge (Mazaruni), East Kurupung (Mazaruni), Ekreku in the vicinity of Muruwawe landing and Potaro in the vicinity of Kaieteur Fall. The prolonged dry seasons prevailing during 1962 facilitated diving operations and many outfits worked on these rivers with good results. Production from the Cuyuni District dropped from 32,663 carats in 1961 to 7,313 carats in 1962.

B.G. Diamond Corporation Limited did no work on mining concession No. 467 in the Meamu.

No work was done on mining concession No. 231 held by the Estate of J.A. Eytle (deceased) in Tacouba creek (Mazaruni).

No work was done on mining concession No. 455 held by E.E. Winter who has applied for permission to transfer the concession.

MANGANESE

55. Manganese production rose from 212,126 tons in 1961 to 271,103 tons in 1962 an increase of 58,977 tons. Average manganese content of the ore shipped was 42%.

56. North West Guiana Mining Company Limited (through their Manager, Manganese Mines Management Limited) continued operations in the North West District.

Production of manganese ore at Matthews' Ridge totalled 271,103 tons; 264,708 tons were transferred from Matthews' Ridge to Port Kaituma and 232,877 tons were shipped from Port Kaituma.

Eight Aveling Barford 270 SL dump trucks were brought into service complementary to the Rusto Bucyrus 38 RB Diesel Shovels. Three Land Rovers and two Hudson dumpers were also put into service.

Areas east and west of those worked in 1961 were prepared and brought into production.

Two auxiliary reservoirs were constructed at the Washing Plant and detailed improvements were effected within the Plant.

During the year one self propelled barge, one harbour launch, and two general purpose launches were operated and an additional ore carrier was brought into service.

Some development work was carried out at Port Kaituma in connection with electrical supply, railway facilities and fuel storage facilities.

Further development of Fakera Village was carried out. The laying of water mains to all houses was completed and water filtration and chemical treatment plant was installed and brought into operation. The distribution of electricity was commenced and street lighting by means of sodium lamps was brought into operation. A new Mine Hospital, comprising male and female wards, an operating theatre, X-ray department, maternity unit, dispensary, laboratory and isolation block was completed and brought into operation at the

/beginning

beginning of the year. A Nurse's Hostel has been constructed.

SECTION IV

STAFFING

57. Mr. A. Lee Own, Deputy Commissioner proceeded on pre-retirement leave on 1st May after completing more than 40 years of sterling service to the Department.

Consequent on Mr. Lee Own's retirement, the following acting appointments were made:

- Mr. J.L. Yhap, Superintendent of Surveys to act as Deputy Commissioner
- Mr. J.A. Sweetnam, Cartographer to act as Supt. of Surveys
- Mr. R. Jagernauth, Senior Surveyor to act as Cartographer
- Mr. G.F. Messervy who was appointed Chairman of the Ad Hoc Working Party in 1956, went into retirement on 1st October, after completing over 50 years service with Government, a record I believe unparalleled in Colonial Administration.

Mr. G.G. Greenidge, who was on secondment as lecturer in Land Surveying at the Government Technical Institute, was in May confirmed in that post.

Miss S. Fernandes, Senior Drawing Office Assistant, resigned, in October after 13 years service.

SICK LEAVE The total number of days off duty on account of ill health (as apart from vacation and casual leave) was as follows:

Clerical Staff	..	403 days
Technical Staff	..	325½ "
		728½ days

This represents a decrease of 307½ days when compared with the previous year.

Vacation Leave: Below is appended a list of the officers who were on vacation leave during the year.

<u>Name of Officer</u>	<u>Post</u>	<u>From</u>	<u>To</u>	
C.S. Cole	Inspector of Mines	1st Jan.	2nd May	
D.M. Edghill	Senior Surveyor	1st Jan.	25th June	
O.E. Fung-On	-do-	31st Mar.	9th Oct.	
A.I. Kranenburg	Class I Clerk	1st July	7th Oct.	- pre retirement
L.O. Kailan	-do-	14th Aug.	14th Oct.	
A. Lee-Own	D.C.L.M.	1st May	26th Oct.	"
M.E. Lee	Surveyor	1st Jan.	19th Apr.	
G.F. Messervy	Chairman, Working Party	1st Oct.	31st Dec.	"
C.S. McLean	Senior Surveyor	2nd July	31st Dec.	
E.M. Martin	Messenger	1st May	23rd July	
A.E. Neil	Class II Clerk	1st Sept.	28th Sept.	
W.C. Nichols	Class I Clerk	1st Apr.	13th Nov.	
E.R. Persaud	Class II Clerk	1st Jan.	13th Sept.	
M.A. Phang	Surveyor	1st Jan.	12th Feb.	
T. Shivkumar	Surveyor	1st Jan.	8th June	
W.A. Swain	Surveyor	1st Apr.	13th Nov.	
J.K. Sagar	Class I Clerk	1st Jan.	15th Mar.	
P.B. Woolford	Surveyor	1st Apr.	13th Nov.	
R.B. Ying	Surveyor	1st Jan.	21st Mar.	

/SENIOR STAFF

SENIOR STAFF AT 31st DECEMBER, 1962.

Commissioner	..	Mr. T.C. Stibbs
Deputy Commissioner	..	Vacant
Superintendent of Surveys	..	Mr. J.L. Yhap
Cartographer	..	Mr. J.A. Sweetnam
Superintendent of Lands	..	Mr. J.E. Davis
Inspector of Mines	..	Mr. C.S. Cole
Senior Accounting Officer	..	Mr. S. Singh
Mining Claims Officer	..	Mr. W.C. Nichols (Acting)
Senior Lands Officer	..	Mr. E.N. Singh (Acting)

58. It is with a sad heart and heavy hand that I write this epilogue to the last Annual Report of Lands and Mines Department, as it has been decided that as from the 1st January, 1963, the Department will cease to exist as a single entity. The Lands and Survey sections will be integrated as a division in the Ministry of Agriculture, Forests and Lands and the Mines section will become a division of the Ministry of Trade and Industry.

59. The Lands and Mines Department came into being in October, 1901 by the amalgamation of the Lands Department and the Department of Mines, and was formerly constituted under Chapter 170 of the Laws of British Guiana on 1st April, 1903.

60. During its 60 years of existence it has had 8 Commissioners namely:-

1. F. Fowler 1st April, 1903 - 16th January, 1917.
2. G.D. Bayley - 17th January, 1917 - 22nd June, 1927.
3. J. Mullin - 23rd June, 1927 - 22nd March, 1937.
4. H.P. Christiani - 23rd November, 1937 - 25th April, 1939
5. F.R.H. Green - 26th April, 1939 - 1st June, 1946.
6. G.A.P. Moorhead - 28th July, 1946 - 8th March, 1950.
7. W.T. Lord - 9th March, 1950 - 23rd May, 1954.
8. T.C. Stibbs - 24th May, 1954 -

61. We are fortunate that we have a complete record of the activities of the Department since its inception, and in turning through its pages we see the names of such stalwarts, as W.H. McTurk, E. Haynes, E.S.E. Parker, R.O.H. Spence, W. Cunningham, M.P. Hastings, L.S. Hohenkerk, J.A.F. Bowhill, A.J. Cheong, C.P. DeFreitas, L.P. Van Sertima, E.E. Winter, J. Brummel, G.F. Messervy, V. Roth, C.A. Cole, R.S. Kaufman, A. Lee-Own, and C.S. Spence and many others, too numerous to mention, all of whom have given many years of sterling service to the department and to the Colony of British Guiana, and I feel that it is appropriate in this last report that their names should again be recorded in order that their memory might not grow dim.

62. With the passing of the Lands and Mines Department, it has also been decided that certain posts should be re-designated amongst them being that of Warden a name which has been regarded as synonymous with law and order in the interior.

The holder of this post has always been held with the highest esteem and regard by the 'pork-knocker' fraternity in the interior, someone, to whom they could turn in time of trouble for advice, and assistance and I feel that the name of Warden which is entrenched in their minds will long be used for years after it has ceased to exist in the official report.

63. In conclusion I wish to place on record my grateful thanks to all those officers who have served in the department during my tenure as Commissioner, and especially to those senior officers who have loyally supported me, and who have borne the greivous burden of attempting to keep the records of the department up-to-date in spite of severe shortage and most frequent changes in the staff, and in latter years the low calibre of the recruits in the junior staff grades. To them, I owe a special debt of gratitude.

64. I regret the late submission of this report, but this has been due to the 11 weeks strike, which necessitated, that all work on the preparation of this report should cease in order that the skeleton staff available could concentrate on current work.

I have the honour to be,
Sirs,
Your obedient servant,

(SGD.) T.C. STIBBS.

COMMISSIONER OF LANDS AND MINES.

DETAILS OF REVENUE COLLECTED AS AT 31st DECEMBER, 1962.

HEAD AND SUB-HEAD OF REVENUE	REVENUE COLLECTED IN 1962	REVENUE COLLECTED IN 1961	INCREASE	DECREASE	REMARKS
<u>II EXCISE AND LICENCES</u>					
4. Licences Unspecified	1,994.00	4,789		2,795.00	
<u>III INTERNAL REVENUE</u>					
5. Duty on Transports	1,271.69	1,327.36		55.67	
<u>IV FINES, FEES OF COURT ETC.</u>					
33. Fines and Seizures	20.87	38.36	1.00		
Boat Regulations	1.00	-	11.00		
35. Affidavit Fees	39.86	28.86	8.90		
34. Crown Costs Recovered	66.20	57.30	8.90		
46. Sale of Official Publications	1,432.03	947.27	484.76		
<u>VI RENTS</u>					
2 Colony Lands	21,854.15	22,080.32		1,126.17	
3 Crown Lands	57,727.16	44,230.15	13,497.01		
<u>VII FORESTS, LANDS & MINES</u>					
<u>A FORESTS</u>					
1 Fees	445.47	356.05	89.42		
2 Licences Balata	8,353.02	4,120.00	4,233.02		
2 Licences Woodcutting	60.73	6.53	54.15		
3 Permissions	48.00	14.00	34.00		
4 Royalty Timber	4,713.48	5,009.68		296.20	
5 Royalty Balata, Rubber	10,161.10	10,804.82		643.72	
6 Royalty Miscellaneous	3.96	108.85		104.89	

B. LANDS

1	Fees	59,637.50			
2	Permissions	7,917.81			
3	Miscellaneous	124.56			
4	Royalty Stone	4,813.58			

52,046.83				
8,491.32				
720.90				
6,821.05				

7,590.47

573.51
596.54
2,007.67

C. MINES

1	Fees	2,513.20			
2	Licences Prospecting	4,825.00			
3	Licences Claim Gold	1,885.00			
4	Licences Claim Precious Stones	14,960.00			
5	Licences Claim Other Minerals	200.00			
6	Mining Privileges	913.92			
7	Exclusive Permissions	70,140.17			

2,604.80				
5,115.00				
2,915.00				
14,530.00				
165.00				
1,023.84				
79,336.98				

91.60
290.00
1,030.00

420.00
35.00

109.92
9,196.81

Variable

(Perkinkers were interested in diamond mining).

Relinquishment of areas held for manganese & bauxite and no new areas granted

8	Mining Concessions	563.56			
9	Dredging Concessions	1,675.96			
10	Royalties	817,672.62			
11	Registration Mining Labourers	12.00			
12	Mining Leases	32,671.82			

556.90				
1,743.93				
704,433.61				
24.96				
20,627.35				

(7.7
67.97

113,239.01
12,044.47

Increased exports of bauxite. Demba paid rent in December, 1962 for 1963.

X MISCELLANEOUS

1	Sundries	5.72			
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110.69

104.97

XI SALE OF LANDS AND HOUSES

1	Crown Land	2,360.58			
2	Colony Lands	654.03			

2,360.58

991.60

337.57

1,131,729.15
997,078.36
154,109.45
19,458.66

Royalties
A Gold
B Manganese
C Bauxite
D Precious Stones
E Alumina
TOTAL

1961
815.20
539,891.46
195,662.64
48,902.61
32,400.71
817,672.62

1962
755.68
443,611.78
187,023.70
54,918.88
18,123.57
704,433.61

NETT INCREASE \$134,650.79

APPENDIX II

EXPENDITURE - 1961

Head of Service	Appropriation (including Supplementary Estimates)	Actual Expenditure 1962	Savings	Excess	Expenditure 1961
1. Personal Emoluments	314,599.00	305,492.39	9,106.61	-	278,794.82
2. Transport and Travelling	63,206.00	61,218.77	1,987.23	-	69,116.92
3. Land and Water Transport	15,000.00	9,724.11	5,275.89	-	5,521.26
4. Revenue Protection	400.00	118.62	281.38	-	14.00
5. Labour and Rations for Labour	120,000.00	108,138.75	11,861.25	-	110,736.91
6. Materials, Equipment & Instruments	35,736.00	21,652.90	14,083.10	-	20,049.50
7. Miscellaneous	3,500.00	1,782.40	1,717.60	-	1,880.00
8. Surveys in Village and Country Areas	30,000.00	27,192.42	2,807.58	-	34,670.51
9. Land Surveyors Examination	1,300.00	1,415.00	-	115.00	1,367.62
10. Uniforms	2,000.00	1,431.57	568.43	-	1,267.47
11. Publication of Section of Colony Map	500.00	-	500.00	-	-
12. Purchase of Engines	4,500.00	3,799.13	700.87	-	5,383.60
13. Purchase of Launch Hull	-	-	-	-	2,500.00
14. Purchase of Land Rover	-	-	-	-	4,487.75
32: Miscellaneous					
12. Refunds of Revenue	10,000.00	19,399.10	-	9,399.10	22,404.28
39. Crown Lands - Resumption of Working Party - Expenses of	39,636.00	35,752.48	3,883.52	-	29,970.64
IX Lands and Mines Development					
1. Topographic Surveys and Training of Surveyors	40,000.00	26,268.53	13,731.47	-	42,263.02
2. Aerial Photography (D 4312)	120,000.00	236.00	119,764.00	-	67,370.02
	800,377.00	623,622.17	186,268.93	9,514.10	697,798.32

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APPENDIX III

Comparative Statement of Approved Applications For
Agricultural, Grazing and Business Purposes during
for years 1960 - 1962.

<u>Leases</u>	<u>1960</u>		<u>1961</u>		<u>1962</u>	
	<u>No.</u>	<u>Acreage</u>	<u>No.</u>	<u>Acreage</u>	<u>No.</u>	<u>Acreage</u>
Agricultural	323	7,308.9177	231	9,592.770	234	12,472.797
Renewals	5	259.58	5	1,493.92	5	62.345
Cattle Grazing (Coastal)	33	5,241.5420	23	1,638.00	24	3,604.87
Renewals	1	96.331	-	-	1	25.
Township & Trading	12	3.5610	7	.829	7	2.3478
Renewals	1	.263	1	.263	2	.526
Missions & Mis- cellaneous	5	103.7295	25	117.549	4	40.573
Renewals	1	.6099	-	-	-	-
<u>Permissions</u>						
Agricultural	142	2,401.79	44	704.29	19	562.4544
Renewals	46	1,339.27	102	3,745.35	67	1,398.338
Cattle Grazing (Coastal)	17	3,117.00	12	1,385.00	13	3,229.330
Renewals	20	9,431.00	20	2,410.00	27	11,945.
Bartica-Potaro Road	3	13.00	3	58.5	1	10.
Renewals	-	-	1	.25	1	10.
Agriculture in Mining Districts	24	94.78	8	45.75	19	133.5444
Renewals	6	54.10	3	11.0	9	124.75
Miscellaneous	26	-	1	1.722	27	474.
Renewals	31	304.34	3	80.	10	4.68
Sublet	4	-	6	-	6	-
Renewals	11	-	13	-	11	-
TOTALS	711	29,769.81	508	21,285.193	487	34,080.5556

<u>CATTLE GRAZING (Interior Savannahs)</u>	<u>1960</u>		<u>1961</u>		<u>1962</u>	
	<u>No.</u>	<u>Sq. Miles</u>	<u>No.</u>	<u>Sq. Miles</u>	<u>No.</u>	<u>Sq. Miles</u>
Leases	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
Permissions	3	110	4	156	2	10
Renewals	15	871.71	12	510.14	17	533
TOTALS	18	981.71	16	666.14	19	543

<u>Cattle-Grazing (Inter Savannahs)</u>	<u>1960</u>		<u>1961</u>		<u>1962</u>	
	<u>No.</u>	<u>Sq. Miles</u>	<u>No.</u>	<u>Sq. Miles</u>	<u>No.</u>	<u>Sq. Miles</u>
Leases	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
Permissions	1	7.	1	6.	-	-
Renewals	15	773.71	12	510.14	17	533
TOTALS	16	880.71	13	516.14	17	533

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APPENDIX IV

Comparative Statement of Titles Issued for Agricultural
Grazing and Business Purposes during the years 1960 - 1962.

<u>GRANTS</u>	<u>1960</u>		<u>1961</u>		<u>1962</u>	
	<u>NO.</u>	<u>Acreage</u>	<u>No.</u>	<u>Acreage</u>	<u>No.</u>	<u>Acreage</u>
Provisional Free	-	-	-	-	-	-
Conditional	-	-	-	-	-	-
Absolute	-	-	-	-	2	13.299
<u>Leases and Licences</u>						
Licences of Occupancy	3	564.84	-	-	-	-
Renewals	-	-	1	100	-	-
Cattle Grazing (Coastal)	5	446.050	3	428.03	2	109.78
Renewals	1	96.331	-	-	1	25
Agricultural Leases	134	2,709.182	59	1,597.44	79	1,873.883
Renewals	5	259.58	5	1,493.92	6	89.474
Township & Trading	2	.526	5	1.315	12	7.4932
Renewals	1	.263	1	.263	2	.526
Missions & Miscellaneous	2	11.029	2	41.335	1	3.197
	1	.6099	-	-	-	-
<u>Permissions</u>						
Agricultural	148	5,765.68	78	1,716.18	21	4,094.432
Renewals	48	1,339.27	102	3,745.35	67	1,398.338
Cattle Grazing (Coastal)	20	3,912.00	21	3,428.00	9	2,506
Renewals	20	9,431.00	20	2,410.00	27	40,745.
Bartica-Potaro Road	2	10.25	3	7.00	1	10.
Renewals	-	-	1	.25	1	10.
Agriculture in Mining Districts	9	297.00	7	65.27	24	207.20
Renewals	6	54.10	3	11.00	19	124.75
Miscellaneous	104	749.95	16	540.223	24	483.844
Renewals	31	304.34	3	80.00	10	4.68
Sublet	5	-	7	-	-	-
Renewals	11	-	22	-	11	-
<hr/>						
	555	25,982.00	359	15,665.576	319	51,706.8962

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APPENDIX V

Comparative Statement of Approved Applications for Wood-cutting and other Forest Titles during the years 1960 - 1962.

<u>LEASES</u>	<u>1960</u>		<u>1961</u>		<u>1962</u>	
	<u>No.</u>	<u>Acreage</u>	<u>No.</u>	<u>Acreage</u>	<u>No.</u>	<u>Acreage</u>
To cut wood	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
<u>LICENCES</u>						
To cut wood (general)	15	1,900	4	775.	6	1,335
Renewals	73	37,712	54	12,080.29	41	8,603
To cut cedar-Grabwood	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
To cut mangrove bark	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
To collect balata	-	-	-	-	-	-
Renewals	11	-	84	-	40	-
<u>Permissions</u>						
To cut scattered trees, Firewood, etc.	128	-	75	-	94	-
Renewals	2	-	-	-	2	-
Timber Path	2	-	-	-	-	-
Renewals	2	-	-	-	-	-
Depot	2	-	-	-	-	-
Renewals	-	-	-	-	-	-
To collect gums	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
To collect tonka Beans	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
To collect orchids	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
To collect wild rubber	-	-	-	-	-	-
Renewals	-	-	-	-	-	-
TOTALS	235	39,612	217	12,855.29	186	9,938

APPENDIX VI

MINING TITLES IN EXISTENCE DURING 1962.

No.	Company	Location	Area (Acres)	To explore for
<u>MINING LEASE - BAUXITE</u>				
199	Demerara Bauxite Company Limited	Blocks D, E, F and G, Christianburg, Wismar	1,835	Bauxite
589	do.	Blocks 1 to 10 between Demerara and Berbice Rivers	6,873	do.
590	do.	Blocks A, B, C, D and E, left bank Demerara River	4,385	do.
591	do.	Blocks 11 to 22, Demerara/Berbice watershed	5,842	do.
592	do.	Blocks 23 to 29, Demerara/Berbice watershed	9,539	do.
593	do.	Both banks Demerara River	1,795	do.
594	do.	Left bank Demerara River	1,712	do.
596	do.	Blocks 30 to 35, Demerara/Berbice Watershed	19,133	do.
364	Reynolds Metals Company	Left bank Kwakwani River, right bank Berbice River	4,164	do.
460	do.	Manaka creek, right bank Berbice River	1,623	do.
544	do.	Block III Chimeri, right bank Berbice River	467	do.
578	do.	Right bank Manaka creek, right bank Berbice River	940	do.
579	do.	Right Bank Berbice River	2,421	do.
580	do.	do.	,111	do.
581	do.	do.	4,402	do.
582	do.	do.	110	do.
<u>MINING LEASE - MANGANESE</u>				
518	North West Guiana Mining Company Limited	Matthews Ridge, North West District	38,149	Manganese and associated minerals.
<u>MINING CONCESSION</u>				
231	J.A. Eytte	Tacouba creek, right bank Kurupung River, right bank Mazaruni River	550	Precious stones.

APPENDIX VI (Cont'd.)

No.	Company	Location	Area (Acres)	To explore for
455	E.E. Winter	<p><u>MINING CONCESSION</u> Tappa creek, left bank Muribang, right bank Potaro River</p>	1,150 469	Precious stones Gold
605	R.G. Humphrey	Left bank Kaburi, right bank Mazaruni		
440	B.G. Consolidated Gold-	<p><u>DREDGING CONCESSION</u> Potaro River from mouth to Tumatumari Falls</p>	3,499	Gold and precious stones
503	fields Ltd. do.	Portion of Konawaruk River from Bucket creek to a point 3 miles above North Fork River	2,797	Gold
467	E.G. Diamond Mining Corporation Ltd.	Portion of Meau River, right bank Mazaruni River	986	Gold, silver, valuable minerals and precious stones.
494	Barima Minerals Ltd.	Both banks Arakaka creek, right bank Barima River	2,587	Gold, silver and valuable minerals.

APPENDIX VII

EXCLUSIVE PERMISSIONS IN FORCE DURING 1962

No.	Company	Location	Area (Acres)	To explore for	
345	B.G. Consolidated Goldfields Ltd.	<u>EXCLUSIVE PERMISSIONS - GOLD & DIAMONDS</u> Bed of Tiger River	1,200	Gold	
355			do.	do.	
585			do.	4,300	Gold, precious stones and valuable minerals
586	Carib Alluvials Limited	Mahdia River 500 feet below Handrail creek	9,000	do.	
587			do.	6,130	do.
606			do.	7,680	Gold and Precious stones
377	Demerara Bauxite Company Ltd.	<u>EXCLUSIVE PERMISSIONS - BAUXITE</u> Potaro River at Tumatumari			
445		do.			
446		do.			
500		do.			
513		do.			
561		do.			
563		do.			
564		do.			
565		do.			
588		do.			
575		do.			
604		do.			
391		do.			
431		do.			
458		do.			
557	do.				
558	do.				
559	do.				
560	do.				
597	do.				
		<u>EXCLUSIVE PERMISSIONS - BAUXITE</u> Left bank Berbice River in the Ituni area	29,167	Bauxite	
		Portion of the Demerara/Berbice watershed	253,820	do.	
		Portion of the Berbice/Corentyne watershed	8,448	do.	
		Left Bank Demerara River	291,272	do.	
		Right Bank Demerara River	105,000	do.	
		do.	175,600	do.	
		Both banks Cuyuni River	172,350	do.	
		Left bank Corentyne River	387,200	do.	
		Left bank Demerara River	354,000	do.	
		Between Essequibo and Demerara Rivers	130,000	do.	
		Between Mazaruni and Essequibo Rivers	553,000	do.	
		Left bank Essequibo River	600,000	do.	
		Kwakwani, right bank Berbice River	102,266	do.	
		do.	316,250	do.	
		do.	100,750	do.	
		Left bank Corentyne River	120,000	do.	
		do.	35,000	do.	
		Between the Demerara and Berbice Rivers	152,800	do.	
		Between the Berbice and Corentyne Rivers	224,000	do.	
		Left bank Corentyne River opposite the mouth of the Assipoya River	228,200	do.	

APPENDIX VII (cont'd.)

No.	Company	Location	Area (Acres)	To explore for
508	Columbium Corporation	<u>EXCLUSIVE PERMISSIONS - COLUMBITE</u>	23,100	Columbite/Tantalite
515	do.	Left bank Mazaruni River	6,200	do.
524	do.	Right Bank Puruni River	18,700	Columbite
556	do.	Between Guyuni and Mazaruni Rivers	119,300	Columbite/Tantalite
603	North West Guiana Mining Company Ltd.	<u>EXCLUSIVE PERMISSION - MANGANESE</u> Between Barama and Amakura Rivers	1,160,000	Manganese

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APPENDIX VIII

Areas held for exploration/mining at 31st December, 1962.

	<u>Number</u>	<u>Acres</u>
1. Mining Lease	17	103,501
2. Mining Concession	3	2,169
3. Dredging Concession	4	9,669
4. Exclusive Permission:		
(a) Bauxite	20	4,339,123
(b) Gold, Precious Stones and Valuable Minerals	6	30,810
(c) Manganese	1	1,160,000
(d) Columbite/Tantalite	4	167,300
		<u>5,697,233</u>
	TOTAL	<u>5,812,772</u>

APPENDIX IX

BAUXITE PRODUCTION - 1958 to 1962.
(Long Tons)

Producing Company	1958	1959	1960	1961	1962
Demerara Bauxite Co. Ltd.	1,397,340	1,511,077	2,231,940	1,982,650	2,246,089
Reynolds Metals Company	188,539	163,339	239,250	390,965	472,908
TOTAL	1,585,879	1,674,416	2,471,190	2,373,615	2,718,997

APPENDIX X

GOLD PRODUCTION - 1958 to 1962.
(Bullion Ounces)

DISTRICTS	1958	1959	1960	1961	1962
Berbice	-	-	-	-	-
Potaro	13,824	1,359	321	299	127
Mazaruni	94	126	160	202	350
Oyuni	2,502	978	571	340	490
North West	1,247	914	1,205	833	932
Rupununi	33	70	106	28	4
TOTAL	17,500	3,447	2,364	1,702	1,903

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DIAMOND PRODUCTION - 1958 to 1962.

(METRIC CARATS)

DISTRICTS	1958	1959	1960	1961	1962
Berbice	-	21.44	-	2.57	16.43
Potaro	55,818.99	3,061.79	3,152.36	9,448.95	18,638.77
Mazaruni	17,528.20	46,773.51	81,526.08	63,899.82	72,651.59
Oyuni	4,399.41	8,247.39	13,929.92	32,663.15	7,313.18
North West	-	34.27	11.30	-	17.97
Rupunni	5,344.11	4,190.09	2,334.26	1,665.46	1,507.46
TOTAL (Metric Carats)	33,090.71	62,328.49	101,003.92	112,679.95	100,145.40