COLONY OF TRINIDAD AND TOBAGO



ADMINISTRATION REPORT OF THE PETROLEUM DEPARTMENT FOR THE YEAR 1953

ADMINISTRATION REPORT OF THE PETROLEUM DEPARTMENT, 1953

HONOURABLE COLONIAL SECRETARY,

.

I have the honour to submit for the information of His Excellency the Governor, the following Report on the Petroleum and Asphalt Industries of the Colony for the year 1953.

The Report is set out in the sections, tables, appendices and maps as detailed below.

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DRILLING

1. An average of twenty-seven (27) drilling rigs were in operation during the year. Although this was one less than in 1952, the total footage drilled was 917,894 feet, giving an average of 2,515 feet per day. This is a substantial increase on the performance last year, when the total footage was 736,535 feet—a daily average of 2,112 feet.

2. Two hundred and twenty-three (223) new wells were started during the year as compared with 187 new wells in 1952—an increase of 19 per cent. Completions increased from 182 in 1952 to 224 in 1953.

3. Thirteen (13) wells were abandoned while drilling, all being dry holes. The aggregate depth of these abandoned wells was 62,335 feet representing 6.8 per cent. of the total annual footage: the corresponding percentage for 1952 was 3.8 per cent.

4. Statistics relative to drilling are given in Table I, Items 14-21 inclusive: the total footage drilled (Item 18) and the average depth per completed well (Item 21) are shown in graph form for a number of years in Appendix "C". A monthly analysis of drilling activity in 1953 is given in Table II.

EXPLORATION AND IMPORTANT EXPLORATORY, OUTSTEP AND DEEP EXPLOITATION WELLS

5. Seismograph surveying continued actively in 1953. In the Siparia district seven lines were run in which the following four (4) companies were interested—Trinidad Petroleum Development Company, Ltd., United British Oilfields of Trinidad Ltd., Apex (Trinidad) Oilfields Ltd., and Premier Consolidated Oilfields Ltd.—the latter two companies participating in one or two lines only. Trinidad Petroleum Development Co., Ltd., ran three lines in the Moruga-Bouffe district and with part participation by Apex (Trinidad) Oilfields Ltd., four lines in the Palo Seco and Erin districts. Seismic surveys in the Ortoire district were completed by United British Oilfields of Trinidad Ltd., and a seismic survey was carried out by Trinidad Northern Areas Limited in the Charuma district. Trinidad Leaseholds Ltd. carried out seismic surveys over their Singuineau, Kapur Ridge, Mayaro, Guayaguayare and Morne Diable holdings, the total footage surveyed being approximately 190,000 feet covering about 4,000 acres. Seismic surveying of the Northern Basin was continued by Dominion Oil Limited and at the end of the year two land parties were operating: this Company completed a detailed marine seismic survey of the northern part of the Gulf of Paria and made reconnaissance seismic survey of the marine area under licence to them off the East Coast. Other type exploratory surveys included auger holes surveys carried out by Dominion Oil Limited over a wide area in the Northern Basin and Nariva districts, and this company also drilled a total of about 35,000 feet in a number of test holes to obtain shallow structural information in the Northern Basin.

6. At paragraph 9 of the 1952 Report, reference was made to the discovery of a development of the Herrera sands at a shallow depth by United British Oilfields of Trinidad Ltd. in their Balata East No. 1. At the end of the year twelve wells had been drilled or were drilling in this area and three of these were dry holes. Comprehensive testing with small production offtake only was carried out on the other wells, and the construction of a 32-mile pipeline was considered justified and commenced: it is expected that this will be completed by the middle of 1954.

7. In Table IX, a list is given of important exploratory and deep exploitation wells which were being drilled during the year, and the location of each is shown on the map at Appendix "H" in this report. Three of these wells were abandoned as dry holes during the year.

The post-war expenditure for all drilling wells in this classification is shown in the following table: ____

EXPENDITURE ON IMPORTANT EXPLORA	TORY	Outstep and I	Deep Exploitati	ON WELLS
	1st J	the period anuary, 1945– December, 1952	For the year 1953	Total at 31st December, 1953
(a) Cost of drilling wells including depreciation		\$38,324,000	\$7,840,000	\$46,164,000
(b) Investment in capital equipmen	t	9,223,000	404,000	9,627,000
		\$47,547,000	\$8,244,000	\$55,791,000
(c) Less Depreciation on capital equipment		3,733,000	1,385,000	5,118,000
(d) Total Outlay \dots \dots		\$43,814,000	\$6,859,000	\$50,673,000

PRODUCTION OF CRUDE OIL

8. The total production of crude oil for the year was 22,345,923 barrels, a record for the Colony. This represents an increase of over 5 per cent. on the figure for the previous year.

9. The average daily production per producing well (Table I, Item 25) was the same as that of the previous year at 24.1 barrels per day. A slight improvement will be noted (see Table III) in the average daily production per flowing well, which rose from 47.3 barrels per day in 1952 to

49.8 barrels per day in 1953. The percentage of salt water in the total fluid produced increased slightly to an average of 18.7 per cent. as compared to 17.2 per cent. in 1952: the salt water production is shown in graph form in Appendix "F".

10. Statistics relative to crude oil production are shown under Items Nos. 1 and 22-27 inclusive in Table I: Items 1 and 25 are reproduced in graph form in Appendix "A". In Table III, a detailed monthly breakdown of production methods is given, and the annual productions contributed by the principal producing methods are graphed as a percentage of the total production in Appendix "B".

11. The gas injection experiment of Trinidad Leaseholds Limited at Forest Reserve, which has been carried on for the past five years, was maintained. Gas was injected at an average rate of 6.2 million cubic feet per day and an appreciable build-up in reservoir pressure has been noted. No definite data are yet available as to the effect of gas injection on the ultimate recovery of these reservoirs, but the results to date have shown a great complexity of reservoir conditions. These complexities are, however, partly offset by the thick sands involved and the combination of steep dip and low viscosity. It is expected that the projects will successfully mature.

12. On the Guayaguayare beach field of Trinidad Leaseholds Limited, a water flood project was put into operation during the year. Approximately 500 barrels per day of salt water from a neighbouring well are being injected into two wells at a depth of about 1,900 feet and close to the oil-water contact in the sand. By the end of the year a total of 12,838 barrels of water had been injected without any noticeable effect on the up-flank producing wells. Preparations were being made to increase the injection rate to 2,500 barrels per day using sea water.

13. Gravel packing as a method of combating sand entry was experimented with on several fields in Trinidad in the early '30s. Trinidad Leaseholds Limited have recently done considerable research in this direction and, during 1953, introduced gravel packing as a routine completion method in their Forest Reserve field. Nineteen newly drilled wells were equipped with liners and the anulus between the liner and the perforated casing was filled with graded beach gravel using a fluid placement technique. Three other wells were successfully repaired by this technique and became commercial producers; previously oil could only be won by repeated and expensive clean out operations.

Refining

14. As in 1952, five (5) permits to refine oil were issued under the Oil Mining and Refining Ordinance, three of these being for small topping plants operated respectively by Apex (Trinidad) Oilfields Limited, Brighton Terminal Limited and Trinidad Petroleum Development Company Limited.

15. Refinery input (Table I, Item 13) reached a new record of 37,446,038 barrels, an increase of nearly 4 per cent. over 1952. Of this total 9,754,461 barrels were processed by United British Oilfields of Trinidad Limited at Point Fortin and 27,504,553 barrels by Trinidad Leaseholds Limited at Pointe-a-Pierre. Brighton Terminal Limited processed 179,856 barrels and 7,168 barrels were treated in field topping plants.

Petro-Chemicals

16. In December, 1953, a new Company, Trinidad Leascholds Chemicals Limited was formed for the purpose of manufacturing petroleum chemicals. This subsidiary company rents and operates certain plants owned by Trinidad Leaseholds Limited, two of which were specially constructed during the year; one of these is for the manufacture of granulated sulphur which will be used largely for the production of sulphuric acid, while the other is for the manufacture of di-isobutylene for the plastics industry. In addition, another plant (originally constructed in 1938 when it was the first built outside the U.S.A. to make iso-octane) was modified to produce propylene tetramer for use in the manufacture of soapless detergents. This Chemical Company had made initial shipments of all these products by the end of the year, e.g., the first shipment of granulated sulphur amounted to 800 long tons.

It is hoped that the petroleum-chemical industry will develop in Trinidad on the same lines as it has done in the U.S.A. where it now supplies 25 per cent. of that country's entire chemical consumption.

NATURAL GASOLINE RECOVERY PLANTS

17. During the year the two existing plants continued in operation; a new plant, under construction in 1952 by Trinidad Leaseholds Limited, was completed in April, 1953 and operated for the remainder of the year. The following table gives some data on the performance of these plants: —

Company Location		Type of Plant	Average Daily Throughput Million C. Ft.		Recovery in gals/1000 c.f.		Total Recovery Bbls.
			1952	1953	1952	1953	1953
Apex .	. Fyzabad	Charcoal	10.4	10.6	1.04	1.06	117,008
T.P.D	. Santa Flora	Oil Absorption	9.9	11.5	0.80	0.78	93,501
T.L.L	. Forest Reserve	do		6.0*	_	0.73	34,493*
	All Plants		20.3	28.1*	0.92	0.87	245,002

* From April, 1953.

2.

Compression gasoline was obtained independently of these plants by Trinidad Leaseholds Limited at Guayaguayare and Forest Reserve: the total recovery was 19,150 barrels in 1953.

NATURAL GAS

18. Details of the production and utilization of natural gas in 1952 and 1953 are given in Table IV. The production increased by approximately 10 per cent. over that for 1952 and this is mainly due to the 5 per cent. increase in crude oil production and to an increase in the proportion of flowing crude oil production. There are no significant changes in the pattern of its utilization.

TRANSPORT AND STORAGE

19. No major additions were made during the year to the main pipeline systems. Storage capacity totalled 10.5 million barrels at the end of the year, approximately the same as at the end of 1952.

Imports and Exports of Petroleum and its Products

20. Crule Oil imported into the Colony for refining and re-export totalled 16,696,300 barrels: this is practically the same as in 1952. Table I, Item 8 gives the quantities for ten years. 142,895 barrels of Tucupita fuel oil were imported and processed mainly for flux oil used in conditioning Lake Asphalt for export.

21. Imports of Tucupita fuel oil by Brighton Terminal Limited for transhipment and bunkering amounted to 2,435,139 barrels: this compares with 3,240,976 barrels in 1952.

22. Trinidad Leaseholds Limited continued to export crude oil to Canada, and the quantity exported was 1,998,507 barrels. This is 8.4 per cent. higher than in 1952 when 1,843,995 barrels were exported, mainly by Trinidad Leaseholds Limited, but in part by Antilles Petroleum Company (Trinidad) Limited (Table I, Item 11).

23. Total exports of petroleum and its products (from both local and foreign crudes) increased by 4.1 per cent. rising from 34,778,000 barrels to 36,220,888 barrels. Details of exports and imports are given in Table V.

THE ASPHALT INDUSTRY

24. The following tables show the quantity of natural asphalt extracted from the Pitch Lake and the quantity of derived products exported or sold locally: ----

NATURAL ASPHALT

	Tons	Tons	
	1953	1952	
Extracted by Works and Hydraulics for local use	 46,359	48,304	
Extracted by Company	 96,884	122,291	
	143,342	170,595	

Derived Products Manufactured by Company

Crude	•••	• • •	 	•••		
Dried Asphalt			 		44,376	48,332
Asphalt Cement		•••	 	••••	44,406	77,831
					88,782	126,163
Local Sales :						
Crude			 		4	5
Dried Asphalt		•••	 		153	21
Asphalt Cement		•••	 		238	109
					395	135
					393	155

SECTION II-THE OIL INDUSTRY IN RELATION TO THE LOCAL ECONOMY

LOCAL EXPENDITURE

25. The annual local outgoings of the Industry in 1953 amounted to 79.6 million dollars, an increase of 2 million dollars over the 1952 figure. Of this large amount 25.6 million dollars were paid in revenue to various Government Departments, while no less than 54 million dollars were paid out locally in wages, purchases and other expenditure. Details of contributions to revenue and to local expenditure are shown in Tables VI and VII.

TAXATION OF THE INDUSTRY

26. The importance of the Oil Industry in the economy of the Colony is clearly brought out in the following table, which shows the contributions of the industry under each Head of Revenue listed in the Colony's Estimates. Contributions to the revenues of the Port Services, and Railway and Telegraph are shown separately in order to conform to the present form of presenting the Colony's Estimates; revenues from these two services were, however, included in the Colony's .'-

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total revenue in past years, and for ease of comparison with these past years, are so included in Table VI—which is set up to show pure taxation as distinct from payments to Government Departments in return for various services:—

Revenue Head in Colony's Estimates	Revenue Received \$	Oil Industry's Contribution \$	Percentage Contribution by Oil Industry
Ordinary Revenue :		-	
1. Customs and Excise 2. Licences and Internal Revenue not otherwise classified 3. Taxes on Income 4. Fees and Payments for specific purposes 5. County Council 6. Reimbursements 7. Earnings of Government Departments 8. Post Office 9. Rent of Government property 10. Interest 12. Port Services (see below) 13. Forests, Lands and Petroleum	$\begin{array}{c} 21,280,427\\ 3,344,892\\ 26,922,775\\ 782,654\\ 908,302\\ 2,927,538\\ 499,949\\ 1,358,656\\ 266,567\\ 942,351\\ 198,885\\ \hline 7,426,309\\ 66,856,303\\ \end{array}$	$\begin{array}{c} 1,332,707\\ 118,741\\ 15,574,972\\ 35,258\\ 228,180\\ 32,644\\ 9,436\\ 45,613\\ 10,320\\ \hline \\ 39,592\\ \hline \\ 7,152,369\\ 24,579,832\\ \end{array}$	$\begin{array}{c} 6.3\\ 3.6\\ 57.9\\ 4.5\\ 25.1\\ 1.1\\ 1.9\\ 3.4\\ 3.9\\ 0.0\\ 19.9\\ \hline 96.3\\ 36.8\end{array}$
EXTRAORDINARY REVENUE :			
14. Land Sales 15. Loans to Public Bodies 16. Emergency Taxation 17. Grants under Colonial Development and Welfare Act 18. Extraordinary	11,84566,0801,134,86528,588		$\begin{array}{c} 0.0 \\ 0.0 \\ - \\ 0.0 \\ 0.0 \end{array}$
TOTAL AS PER COLONY'S FINANCIAL STATEMENT, 1953	68,100,681	24,597,832	36.1

CONTRIBUTIONS BY THE OIL INDUSTRY TO THE REVENUE OF THE COLONY IN 1953

In addition to the contributions shown in the above Table, the Oil Industry's contributions to Government Operated Services were: —

Revenue Head in Colony's Estimates					Revenue	Oil Industry's	Percentage
					Received	Contribution	Contribution
					\$	\$	by Oil Industry
A. Port Services B. Railway and Telegraph		•••	•••		5,013,496 1,421,687	891,786 119,097	17.8 8.4

27. Reference to Table VI indicates that there was little change in the overall contribution of the industry in 1953 as compared to 1952. Changes in the amounts contributed under the various heads of Income were comparatively small, the largest being a decrease of 8.9 per cent. in Income Tax. Although the gross income of the industry was somewhat higher in 1953 than in 1952 due to a larger production and to slightly higher average prices for products this increase was more than offset by a substantial increase in local outgoings other than direct taxation.

28. Customs Import Duties (Item 1, Table VI) paid by the oil industry showed a small decrease of 1.1 per cent. falling from \$1,204,736 in 1952 to \$1,191,346 in 1953, the total value of the industry's imports falling by 1.9 per cent.

29. Reference to Item 7 of Table VII shows that there was a substantial drop of over 31 per cent. or nearly two million dollars in the value of the industry's imports from the United States of America while the value of its imports from the United Kingdom and other sources both increased by about \$600,000.

30. The total royalties collected by the Accountant General in 1953 in respect of the period 1st July, 1952 to 30th June, 1953 on crude oil, &c. (i.e., including casing head petroleum spirit and minimum royalties) and on gas sold amounted to \$7,029,255 an increase of 3.4 per cent. over the collections in respect of the previous twelve months. Further details of the various changes in production and values causing this increase are shown in the Table at paragraph 42.

LOCAL DISBURSEMENTS

31. Other than contributions to Government revenues, the annual expenditure of the oil industry in the Colony was \$53,993,792 (Items 2-5 inclusive in Table VII). This amount was 5.7 per cent. greater than the corresponding amount for 1952 (\$51,205,385).

32. Payments to employees (Table VII, Item 2) increased by nearly 18 per cent. for the second year in succession. This increase was due partly to the increase in Wages and other benefits granted in August, 1952, having been effective for the whole of 1953 as compared to only a little over four months in 1952, and partly to a rise in the average daily number of registered employees (15,647 as compared to 15,218 in 1952).

33. Both payments to Contractors and Local Purchases of Materials showed only trivial changes as compared to the previous year but the group "Other Local Expenditure" which includes Rents, Private Royalties, Legal Fees, &c., fell by 12 per cent.

EXPORTS OF PETROLEUM AND ITS PRODUCTS

34. The total values of petroleum and its products exported during 1952 and 1953 based on Customs and Excise Department figures are:---

			1952	1953
Crude Oil and Products			\$170,532,239	\$188,255,575
Petroleum and Bitumen	•••		4,958,271	6,093,337
Totals		••••	\$175,490,510	\$194,348,912

35. The value of the leading staple products exported from the Colony during 1952 and 1953 is shown in the following Table:—

				1952 Value	1953 Value	Percentage of Total
				\$	\$	
1. Petroleum				170,532,239	188,255,575	74.93
2. Petroleum Bitumen		•••		4,958,271	6,093,337	2.43
3. Asphalt and its products				5,980,848	4,103,319	1.63
4. Cocoa				8,237,147	11,720,936	4.66
5. Sugar, Molasses and Rum		•••		20,889,530	27,167,495	10.81
6. Coconuts, Coconut Oil, &c.				2,173,950	799,175	.32
7. Coffee		•••		1,467,731	1,840,509	.73
8. Bitters		•••		726,217	681,238	.27
9. Fresh Fruits, Fruit Juices, &c.				2,050,688	3,704,123	1,48
0. All others	•••	•••		6,315,004	6,892,492	2.74
TOTALS		•••	[223,331,445	251,258,199	100.00

36. The value given for Item 1 above includes the value of products obtained from imported crude and is therefore not on a strictly comparable basis with the export values given for the other products which are wholly of local origin. The value of each of the more important products exported annually is shown in Appendix "E", graphed as a percentage of the total annual value of the Colony's exports. The value of the products obtained from imported crude is shown on this graph which indicates clearly the importance of imported crudes in the local refining business.

37. Harbour Dues on petroleum cargoes (14 cents per ton) increased by 7.4 per cent. from \$753,598 to \$809,507. This increase was mainly due to the increase in crude oil production.

ADJUSTMENTS TO WAGE RATES

38. There were no Cost of Living Bonus additions to wages during the year. The Bonus has remained at $1\frac{1}{2}$ cents per hour since the 1st July, 1952, when the last addition of $\frac{1}{2}$ cent per hour was made at an index figure of 106 consequent on the Index of Retail Prices rising to 106.6 in that month. During the year 1953 the Index of Retail Prices fluctuated between a maximum of 107.9 in May and a minimum of 106.2 in January of that year.

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SECTION III_ADMINISTRATION

ROYALTY ASSESSMENT

39. There was no change in the method of evaluating crude oil for royalty assessment on the production of leases issued under the Land (Oil Mining) Regulations (see paragraph 50 of Report for 1952) nor in the methods used for field sampling (see paragraphs 60-72 of Report for 1951). Crude Oil taken as royalty in kind under the terms of the old type leases also continues to be similarly evaluated and sampled.

40. The data used to evaluate crude oil for assessment on the 1934-Type leases and for sale to the Lessees on the old type leases are as follows:---

	AVERAGE PRICE IN B.W.I. CURRENCY PER BARREL OF 34,9726 IMPERIAL GALLONS FOR THE HALF-YEAR PERIOD ENDED						
Product	31st December, 1953	30th June, 1953	31st December, 1952	30th June, 1952			
Bunker C Grade Fuel No. 2 Fuel 43-47 D.I. Gas Oil 48-52 D.I. Gas Oil 70-72 Oct. M. Leaded Motor Gasolene	\$ 3.160,901 5.917,844 6.029,484 6.105,534 6.195,236 7.350,627	\$ 2.650,026 5.744.127 5.797,056 5.886,097 5.972,665 7.178,674	\$ 2.623,117 5.776,370 5.776,370 5.866,625 5.956,881 7.220,462	\$ 3.008,663 5.776,634 5.776,634 5.866,894 5.957,154 7.220,792			
Average Middle Rate for sight drafts on New York premium in B.W.I. cents per \$1.00 U.S	70.859,511	70.543,923	71.915,761	71.923,626			
Value of Tetra Ethyl Lead in B.W.I. cents per millilitre	0.457,791	0.457,791	0.405,494	0.405,529			

It will be noticed from the above Table that prices of all products used in the evaluation of crude rose during the second half of the year, Bunker C. Grade Fuel more than regaining the fall in price that it suffered during 1952.

41. The average value of all Crown royalty Crude Oil assessed and taken in kind, as calculated from the above data, was as follows:----

For the half-year period ended 30th June, 1952	 	\$3.79 per barrel
For the half-year period ended 31st December, 1952	 	\$3.57 per barrel
For the half-year period ended 30th June, 1953	 	\$3.62 per barrel
For the half-year period ended 31st December, 1953	 	\$3.96 per barrel

42. Total royalties (including oil taken in kind and sold to the lessees) assessed in 1953 in respect of the period 1st July, 1952 to 30th June, 1953, on crude oil and casing head petroleum spirit produced, on gas sold and for dead rent (minimum royalty on non-productive leases) amounted to \$7,019,485.98 as compared to \$6,711,615.97 assessed for the previous twelve months. This increase of \$307,870.01 is the net result of various changes in the production and value of crude oil and other items as tabulated below:—

			INCREASES			DECREASES	
		Production Bbls,	Value \$ per bbl.	Revenue \$	Production Bbls.	Value \$ per bbl.	Revenue \$
CRUDE OIL :							
Old-type Mining Leases	<i>.</i>				24,688	0.1722	217,679
1934-type Mining Leases		1,088,210		140,366	-	0,2927	-
OTHER ITEMS :							
Gas Sold							4,573
С.Н.Р.S			0.0474	3,138	5,800	_	-
Dead Rents				386,618			<u> </u>
REVENUE TOTALS				530,122			222,252
					BALANCE NET	INCREASE	\$307,870

43. The following Table summarises the data relating to royalty assessment of crude oil produced on leases issued under the Land (Oil Mining) Regulations. The free-of-royalty concession is restricted to certain oil used in drilling and production operation only.

		BARRELS AS	PER STATISTIC	CAL RECORDS	Actual quantity	Average value	Revenue
Period		Gross Production	Free of Royalty	Net Production	valued (1) barrels	per barrel \$ B.W.I.	s B.W.I.
1951							
January–June	•••	4,001,595	12,631	3,988,964	3,989,554	3.97.59	1,586,220.96
July-December		4,270,513	14,747	4,255,766	4.25 6,3 52	3.96.16	1,686,187.81*
1952							
January–June		4,369,352	16,987	4,352,365	4,352,922	3.83.56	1,669,608.60
July-December		4,771,920	17,665	4,754,255	4,754,785	3.59.49	1,709,287.83
1953							
January-June		4,966,620	24,445	4,942,175	4,942,699	3.61.52	1,786,874.85
July-December		5,343,848	34,304	5,309,544	5,310,040	3.98.42	2,115,625.21

* Amended figure from 1951 Report.

OLD TYPE LEASES

44. Ten per cent. of the crude oil produced on these leases is taken as royalty in kind and is sold back to the lessees. Certain fuel used in drilling, producing and refining is allowed free of royalty.

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		BARRELS AS	PER STATISTIC	CAL RECORDS	Actual quantity	Average value	Revenue
Period		Gross Production	Free of Royalty	Net Production	sold (1) barrels	per barrel \$ B.W.I.	B.W.I.
1951 January–June July–December	··· ···	4,012,983 3,976,915	71,677 69,130	3,941,306 3,907,785	394,253 390,890	3.65.63 3.70.83	1,441,114.80 1,449,538.10
1952 January–June July–December	•••	3,739,997 3,763,606	69,092 82,300	3,670,905 3,681,306	$367,196\ 368,244$	$3.69.96 \\ 3.48.99$	1,358,475.43 1,285,151.61
1953 January–June July–December		3,751,105 3,684,864	100,734 95,379	3,650,371 3,589,485	365,154 359,063	$3.57.43 \\ 3.89.52$	1,305,182.61 1,398,627.45

The following Table shows the total sales of royalty oil by half-yearly periods for 1951, 1952 and 1953:---

FOOTNOTE: (1) Royalty oil sold on old-type leases or valued for royalty on the 1934 type leases is calculated at 34.9726 Imperial gallons per barrel.

Statistical volumes of gross production F.O.R. &c., include some volumes reported at 34.973 Imperial Gallons per barrel and some at 35 Imperial Gallons per barrel.

Note: Details of sales, prices and analyses of Government royalty crude sold back to the lessees are shown in Table X.

45. In addition to the above royalties on crude oil, the following Table shows the amounts assessed on natural gas sold, casing head petroleum spirit recovered and minimum royalties paid on leases with small or no production : -

	•	NATURAL	Gas Sold	C.H.P.S. F	LECOVERY	Minimum	
Period	:	Volume (M.C. Ft.)	Royalty \$	(Imp. Gals.) 8 183,444 8 167,391 12 171,462 28 79,633 36 16,577 36 44,520 4 1,992,245	Royalty \$	Royalties \$	
Old Type Leases : 1951							
January–June July–December	••••	$16,224 \\ 43,619$	$331.08 \\ 876.98$		2,035.30 2,373.76	$2,034.24 \\ 1,998.96$	
1952 January–June July–December	···· ···	$37,256 \\ 50,264$	745.12 1,005.28		2,568.36 1,646.27	2,000.40 2,047.20	
1953 January–June July–December		66,218 142,618	1,324.36 2,852.36		3,402.69 9,357.34	2,205.60 2,263.20	
1934 Type Leases :							
1951 January–June July–December	··· ···	1,540,138 1,680,436	44,635.14 49,300.82		36,687.20 38,005.63	201 ,3 51.69 185,984.42*	
1952 January–June July–December	···· ···	1,271,405 1,493,192	$34,501.54 \\ 40,834.37$	2,163,933 2,147,243	42,700.01 42,359.42	186,750.03 456,662.40**	
1953 January–June July–December	··· ···	$1,\!485,\!859$ $2,\!011,\!035$	37,686.70 40,655.72	2,115,760 2,366,602	41, 3 77.99 47, 4 89.47	302,436.80 298,786.96	

* Amended from 1951 Report. ** Amended from 1952 Report.

46. The total royalty assessed during 1953 in respect of the two half-yearly royalty periods ended respectively on 31st December, 1952, and 30th June, 1953, was \$7,019,485.98 being the sum of the separate items of revenue shown for those two periods in the preceding three tables. The amount collected by the Accountant General during the year in respect of royalties was \$7,029,255.42, the reconciliation between the two figures being as follows:—

Amount collected by the Accountant General	••••		\$7,029,255.42
Less :			
Minimum Rentals paid in advance:—			
Trinidad Leaseholds Limited		\$100,070.53	
Trinidad Petroleum Development Co., Ltd.		23,800.00	
Amount overpaid on Mining Lease— Reg. No. 4286/37		30.04	
Amount paid on Mining Lease 3478/45		2,688.55	
Amount paid on Mining Lease 4432/37		1.24	126,590.36
			te one for on

\$6.902.665.06

	Brought	forward		\$6,902,665.06
Add:	0			
Amount due on Mining Lease 2039/53			\$ 60.94	
Amount due on Mining Lease 3478/45			6,862.36	
Amount due on Mining Lease 6353/53			7,900.00	
Minimum Rentals paid in advance (in	1952)			
Trinidad Leaseholds Limited	′		99,178.55	
Trinidad Petroleum Development C	o., Ltd.		2,819.07	116,820.92
Amount assessed		-	•	\$7,019,485.98

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LOCAL SALES OF PETROLEUM PRODUCTS

47. There was no change in the local retail price of either gasoline or kerosene during the year, which remained at 43 cents per Imperial Gallon and 26 cents per Imperial Gallon respectively. Increases in the marketing expenses of both products occurred. These were due to increases in wage rates and to adjustment of salaries. There was also some fluctuation in local refinery prices which vary in accordance with Gulf Export prices. These changes were taken care of by the Stabilization Fund which stood at \$63,986.23 on the 31st December, 1953.

48. Excise Duty (9 cents per imperial gallon) collected during the year on gasoline amounted to \$1,709,321; the total excisable sales being 18,992,460 gallons an increase of 9.5 per cent. compared to 1952. Local sales of kerosene (free of excise) amounted to 5,012.592 gallons an increase of 11.3 per cent. over the corresponding figure for 1952. Sales of aviation spirit (free of excise) fell by 24.4 per cent. from 3,507,278 gallons to 2,649,808 gallons in 1953. This was due to the decreased requirements of Pan-American World Airways who altered both their schedule and the type of aircraft fueling at Piarco during the year.

ACCIDENTS

49. During the year 68 serious accidents were reported to the Department. Two of these occurred on drilling rigs and were fatal, 33 others were on drilling or production rigs, while 33 were in other departments of the Industry.

50. The Safety Departments of the larger Companies are constantly on the watch for practices and defective equipment. Safety competitions between various departments, special instruction classes and propaganda have resulted in the accident rate of the local industry being comparable with that of the United States of America. The accident rate in the local refineries is especially satisfactory.

LEGISLATION

51. The Land (Oil Mining) (Amendment) Regulations, 1953, were published as a supplement to the Royal Gazette of 5th February, 1953. These Regulations repealed and replaced Schedule II to the Land (Oil Mining) Regulations, 1934, and describe the method of assessing the royalties payable under the terms of Crown Oil Mining Leases. The method of assessment in respect of crude oil was described in paragraph 50 of the Administration Report of this Department for 1952.

52. The Customs Amendment Ordinance 1951/53 was published early in the year and made provision for exemption from payment of customs duty on specified goods and for specified periods. The amendment contained special provisions relating to past importations. This had become neces-sary since it appeared that the powers conferred on the Governor in Council by section 10 of the Ordinance were inadequate to grant the type of permit to import free of customs duty which conditions in the petroleum industry had made it desirable to issue. The situation was adjusted by adding two new subsections to section 49 of the Customs Ordinance. Subsection 49B (a) legalised permits already issued but provided that their effectiveness be deemed to terminate on the 20th February, 1953: subsection 49B (b) provided that, subject to a resolution by the Legislative Council exempting any class of goods from the payment of customs duty, then any permit previously issued to import such class of goods without payment of custom duty would be deemed to be a licence to import such goods effective from the 20th February, 1953.

53. Amendment to the Schedules of import duties was made by resolution of the Legislative Council on the 20th February, 1953 (see Supplement to the Royal Gazette, Vol. 122, No. 20, dated 19th March, 1953, Government Notice No. 60). By this amendment *inter alia*, exemptions from import duties of customs were approved up to the 31st December, 1975:-

- i. in respect of crude petroleum, partly refined petroleum, petroleum products and catalyst materials imported for the purpose of refining or blending or re-export.
 ii. in respect of foreign petroleum and petroleum products imported for storage and re-export.

54. By virtue of section 49B (b) of the amending Ordinance, this resolution gave effect from the 20th February, 1953, for the unexpired portion of their respective periods and subject to their respective conditions, to the following permits which had been previously issued :-

- 1. To Trinidad Leaseholds Limited from the 1st January, 1949, for 25 years, licence to import crude oil and/or charging stocks and/or blending stocks for processing or for re-exporting or for its own account in such quantities as will in any particular time be necessary to maintain the refinery at full capacity.
- 2. To Brighton Terminal Limited from the 3rd November, 1950, for 25 years, licence to import:
 - (a) crude and/or topped crude and/or fuel oil not exceeding 300,000 barrels per month for refining and re-export.
 - (b) 400,000 barrels per month of heavy residium for transhipment on behalf of Texas Company.
 - (c) up to 28,000 barrels per month of cutter oil (if not available locally) for blending with the above residium to reduce viscosity.

3. To United British Oilfields of Trinidad Limited from 6th March, 1951 for 10 years, licence to import such quantities of foreign crude as may from time to time become available and to re-export refined products equivalent in quality and quantity derived from the imported crude.

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55. By the Aid to Pioneer Industries (Manufacture of Industrial Chemicals) Order, 1953, made by the Governor in Council under section 3 (1) of The Aid to Pioneer Industries Ordinance, 1950, the manufacture of industrial chemicals was declared to be a pioneer industry for the purposes of this Ordinance (see Gazette Notice No. 201 dated 10th December, 1953). This Order will be of benefit to Trinidad Leaseholds Chemicals Limited who during the year rented certain plant from Trinidad Leaseholds Limited and started making shipments to the United Kingdom of Sulphur, Naphthenic Oil Residues, Prophylene Tetramer and Di-iso-butylene.

OIL MINING LEASES AND LICENCES

LAND LEASES

56. Leasing activity was well maintained during 1953. Over 119,000 acres of crown oil rights being included in the thirteen (13) new principal leases and nine (9) supplemental leases registered during the year. Surrenders were quite trivial amounting to only 466 acres of which 380 acres were re-applied for. Leases were being processed at the end of the year to cover a further 92,230 acres while exploration licences had been granted, but not issued covering 73,403 acres. Nearly all crown oil rights South of the Eastern Main Road except those over land required for public purposes are now under lease or exploration licence.

MARINE AREAS

57. Marine Licences were issued over the areas granted last year amounting to 605,561 acres. Exploitation by deviated wells from shore line locations continued during the year. United British Oilfields of Trinidad Limited commenced assembling a sub-structure at Point Fortin for the foundations of Trinidad Northern Areas' first marine well to be located about thirteen miles from Point Fortin and five miles from Soldado Rock.

The Gulf of Paria Mixed Boundary Commission met in Port-of-Spain twice during the year. The Venezuelan delegates, Drs. V. Lopez, E. Duarte and Rohl being guests of the Trinidad Government on both occasions.

During the first visit extending from April 7th-15th the location and erection of certain survey marks on the Venezuelan coast was decided upon and arrangements were finalised for the British delegation to undertake the work of clearing the sites and erecting these marks. This work was commenced during May and completed in November. Two survey monuments being placed in elevated positions on the Paria Peninsula and three at High Water Mark along the coast south-east of Padernales.

The Commission met again from December 9th-17th when they completed their work and signed reports for submission to their respective Governments. The United British Oilfields of Trinidad Limited very kindly arranged a flight in their private aeroplane for three members of the Mixed Commission in order that the survey marks might be inspected from the air. On the occasion of both visits of the Venezuelan Delegates, the Trinidad Government had the pleasure of entertaining Dr. Luis Cordero who represented the Venezuelan Ministry for Mines and Hydrocarbons.

58. A summary of leasing activity during the year is shown in the following paragraph, and is followed by details of individual leases and licences issued, surrendered and outstanding. Changes in Companies holdings are shown in Table VIII.

	No. of Leases	Св	OWN (DIL RI	GHTS-ACRE	AGE	
	 or Licences	Private	e Surfa	ce	Crown Surface		
Principal Leases at 31st December, 1952 Principal Leases issued during 1953 Supplemental leases issued during 1953	 96 13	A. 75,185 14,197 4,557	в. 3 2 2	р. 06 1 07 05	A. 160,892 100,662 259	п. 3 2 2	Р. 14 29 31
Surrendered during 1953	 109 3	9 3 ,940 160	$\frac{3}{2}$	$18\frac{1}{2}$ 05	261,815 306	0 2	34 22
Principal Leases as at 31st December, 1953	 106	93,780	1	131	261,508	2	12
Exploration Licences at 31st December, 1952 Exploration Licences issued during 1953	 1 5			<u> </u>	839 24,739	2 1	06 25
Terminated during 1953 T.N.A. 8867/51	 6 1				$\begin{array}{r} 25,578\\ 839\end{array}$	3 2	31 06
Exploration Licences as at 31st December, 1953	 5	-			24,739	1	25
Submarine Licences as at 31st December, 1952 Submarine Licences issued during 1953	 3 5				401,304 608,261	0 0	00 00
Surrendered during 1953	 8 2		•		1,009,565 18, 3 04	0	00 00
Submarine Licences as at 31st December, 1953	 6				991,261	0	00

59. Summary of leasing activity during 1953:-

60. Details of the leasing summary in the preceding paragraph are given in the following Tables: -

Crown Oil Mining Leases Registered during 1953:-

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Mining Leases		Locality -	C	ROWN	OIL R	IGHTS-ACR	EAGE	
mining Leases	No.	Locanty	Privat	e Surfe	ice	Crowi	n Surfa	ce
A) PRINCIPAL LEASES : Apex Reg. No. 1404/53 2039/53 Dominion Reg. No. 837/53 T.N.A. Reg. No. 11781/53 T.L.L. Reg. No. 7228/53 T.P.D. Reg. No. 9307/53 Reg. No. 9308/53 Reg. No. 9309/53 Reg. No. 9310/53 Reg. No. 9311/53 Reg. No. 9810/53 Reg. No. 9810/53 Reg. No. 9810/53 Reg. No. 9810/53	$\frac{2}{1}$ $\frac{2}$	Fyzabad Fyzabad Nariva Central Range Central Range Moruga Pointe-a-Pierre Savana Grande Palo Seco Central Range Erin Moruga Ortoire	A. 302 123 12,213 289 999 157 111 	R. 2 2 3 2 0 0 1	P. 36 19 39 34 20 15 04 	A. 258 39,858 6,704 268 1,505 63 219 77 5,664 -51 45,990	R. 3 0 0 3 3 2 2 2 0 1 3	P.
Total	13	<u> </u>	14,197	2	07	100,662	2	29
B) SUPPLEMENTAL LEASES :			А.	R.	Р.	A.	R.	Р.
T.L.L. Reg. No. 8640/53 sup. to No. 4286/37 Reg. No. 10463/53 sup. to No. 1115/26	2		л. 16 4	л. 2 3	г. 30 39	— —	к, 	
T.P.D. Reg. No. 9306/53 sup. to No. 3450/35	1		57	3	17	10	0	03
U.B.O.T. Reg. No. 799/53 sup. to No. 2412/37 Reg. No. 1634/53						33	2	28
sup. to No. 2580/38 Reg. No. 3826/53 sup. to No. 2580/38			875 8	$\frac{2}{1}$	04 09			
Reg. No. 4566/53 sup. to No. 5547/38 Reg. No. 4991/53			375	0	36		—	_
sup. to No. 3942/52 Reg. No. 11432/53 sup. to No. 2580/38	6		3,218	3	30	216 	0	
Total	9		4,557	2	05	259	2	3]
) Surrendered Leases :								
Apex Reg. No. 2353/22 Lapsed Reg. No. 653/27 by No. 2037/53	_		64 58	2 3	38 21	9	1	37
Reg. No. 421/30 by No. 2038/53	3			_		249	1	03
T.P.D. Reg. No. 4866/52 (Part by 9312/53) Reg. No. 6764/52 (Part by 9313/53)			36	3	26	 47		
Total	3		160	2		306	2	22

Exploration Licences issued during 1953: ---

								CROWN OIL RIGHTS Crown Surface		
							No.			
								А.	R.	Р.
Apex	Reg. 3027/53				•••]	1	3,752	0	19
Dominion	Reg. No. 11309/53	•••	•••	•••	•••		1	12,924	0	00
T.N.A.	Reg. No. 11508/53		•••	•••	•••		1	1,788	0	37
T.P.D.	Reg. No. 9326/53	•••				•••	1	4,713	0	09 1
T.L.L.	Reg. No. 10459/53	•••	•••	•••	•••	•••	1	1,562	0	00
							5	24,739	1	25]
TERMINATE	D :									
T.N.A.	Reg. No. 8867/51						1	839	2	06
						ļ]		

C 1 1	Y ·		· ·	1053
Submarine	Lacences	issued	dumng	1953:
0000000000000	2010011000			

								27	A. 15,344 5,760 131,000 231,157	OIL RIGHTS		
								No.	A. 15,344 5,760 131,000 231,157	vn Surface		
*Antilles: *K.T.O.: Dominion: T.N.A.: T.P.D.:	Reg. No. Reg. No. Reg. No. Reg. No. Reg. No.	11551/53 500/53 1038/53	· 	reissue over 	12544A) 	· · · · · · · ·		1 1 1 1	15,344 5,760 131,000	R. 0 0 0 0 0	P. 00 00 00 00 00	
	0	,						5	608,261	0	00	
SURRENDER	ED ;											
Antilles	s: Reg.	No. 2335	5/50 by 27	02/53				1	12,544	0	00	
К.Т.О.	: Reg.	No. 349	0/50 by 11	1550/5 3	•••			1	5,760	0	00	
							-	2	18,304	0	00	

* Re-issues of areas incorrectly defined in the original licences which were surrendered.

61. Applications for oil mining leases and licences outstanding at 31st December, 1953:-

			No.	Locality		Cr	own Or	L RIGHTS		
					Priv	ate Surfi	ice	Crown	n Surfa	Сө
A. Mining Leas	es :				А.	R.	Р.	А.	R.	Р.
ANTILLES :					ĺ					
	() 0 (= (
Reg. No.	416/54 417/54	•••	2	•••				8,343 10,218	1 1	03 06
APEX :										
L. & S.	1177/48			Tamana			10	8,744	2	02
L. & S. : L. & S. :	$6/51 \\ 477/51$	···· ···	3	do do		2	18	1,980 187	$\frac{2}{0}$	35 07
Dominion :										
L. & S.:	428/52			Northern Basin			00			
L. & S. : L. & S. :	$741/53 \\ 108/53$			Arima, Cunupia Turure and Cocal			$\begin{array}{c} 00\\ 37\end{array}$			
L. & S. : L. & S. :	555/53	· · · · · ·		Cedros	1		01			
L. & S.:	590/53			Cocal		1	35	113	1	05
L. & S.:	836/53			Cunupia and Turure	325	2	36			
L. & S.:	1232/53		•	Charuma, Cocal and Ortoire	. 7,889	0	00			
L. & S.:	1332/53		8	Cedros	1 100		37	80	0	00
T.N.A. :										
L. & S.:	1209/49			Charuma				7,602	3	21
L. & S.:	808/47		2	Naparima		—	_	839	$\frac{1}{2}$	06
T.L.L. ;										
L. & S.:	388/44			Sangre Grande and Naparima	. 173	1	21	20	1	10
L. & S.:	680/50			Siparia			<u></u>	20 82	Ô	$\begin{array}{c} 10\\ 15\end{array}$
L. & S.:	815/46		********	Moruga				2,360	0	00
L. & S.:	794/51	•••		Sangre Grande and Moruga				1 50	0	~ •
L. & S.:	1058/52			La Brea		3	34	159 4	0 1	$\begin{array}{c} 01\\ 33 \end{array}$
L. & S.:	450/53			Moruga	1 10		07	67	i	34
L. & S.:				Sangre Grande			16	17	2	05
L. & S.:	1270/53	•••	8	Siparia and Moruga	95	1	20	128	1	35
T.P.D. :										
L. & S.:				Moruga			16‡			
L. & S. :	322/48	•••	~~~	do	. 1,350	0	32	120	1	17
L. & S.:	815/51	•••		Montserrat and Charuma				20	0	0.9
L. & S.:	789/51			La Brea	i			20 46	1	03 39
L. & S.:	1215/52	•••	_	Moruga	. 10		00			
L. & S. : L. & S. :	54/53 1045/49	•••	7	Cedros Central Range			$\begin{array}{c} 26 \\ 05 \end{array}$	66	0	37
	- ,									
U.B.O.T. :										
Reg. No.					. 118	2	36	2,323	1	04
L. & S.: Reg. No.	1184/49	•••	3	Ortoire				2,880	0	00
TICK' 140'	#10/0#	•••		Nariva	·			5,804	1	19
			33		38,085	1	17	52,209	2	17

	,	No.	Logalitza		CRO	own O	IL RIGHTS		
	د 	NO.	Locality –	Privat	e Surfa	ce	Crown	Surfa	ce
B. Supplemental Leases : K.T.O. :				А.	R.	Р.	A	R.	Р.
L. & S.: 431/53]	1	La Brea	8	0	23	1	0	23
Dominion :									
L. & S.: 1332/53		1	Cocal	80	0	00	_		
T.L.L. :									
L. & S.: 663/53 L. & S.: 1288/52		$\overline{2}$	Sangre Grande do	16	1	10	- 3	1	20
T.P.D. :									
L. & S.: 1046/49 L. & S.: 1200/53	 	2	Siparia Mairao	11	3	34 —	31 25	3 0	34 13
$\begin{array}{c} \text{U.B.O.T.:} \\ \text{L. \& S.: } 976/51 \\ \text{L. \& S.: } 916/43 \\ \text{L. \& S.: } 882/52 \\ \text{Reg. No. } 418/54 \\ \text{L. \& S.: } 61/53 \\ \text{L. \& S.: } 557/53 \\ \text{L. \& S.: } 1236/53 \\ \text{L. \& S.: } 1207/53 \\ \end{array}$	· · · · · · · · · · · · ·		Otroire do Cocal and Charuma Ortoire Nariva Cocal and Charuma do	 	 03 	03	$24 \\ 569 \\ 499 \\ 59 \\ 300 \\ 42 \\ 82 \\ 144$	2 1 3 1 0 0 1 2	36 34 28 07 00 00 25 37
·		14		169	0	30	1,784	0	2
C. Exploration Licences :									
Apex									
L. & S.: 950/51		1	Cedros and La Brea				461	0	00
Dominion : L. & S.: 206/52 L. & S.: 103/52 L. & S.: 1219/52 L. & S.: 522/53 L. & S.: 907/53	 		Northern Basin Cedros Charuma, Cocal and Ortoire Montserrat St. Ann's				64,031 1,708 5,456 1,307 439	0 3 0 2 0	0(1) 0(2) 0(
D. Marine Licences :	-	6					73,403	1	3
L. & S.: 9/52 L. & S.: 967/53 L. & S.: 9/52	 		P.O.S. Harbour South of Cedros On Treaty Boundary				24,960 6,652 9,000	0 0 0	01
T.P.D. :									
L. & S.: 1113/45 M.P. 65916		1 1	On Treaty Boundary On Treaty Boundary				8,975 4,010	0 0	0
		5					53,597	0	0
Total of all Outstanding Applications		58		38,254	2	07	180,994	0	3

62.			
Crown	Oil	Rights	:

;

SUMMARY OF ALL LEASED OIL AREAS

•••

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Private Oil Rights :

Private oil rights under lease as at 31st December, 1953	•••	130,856	1	24
Total acreage of oil lands		1,721,394	1	34

(Private Surface)

R. P. *A*. Principal Leases issued as at 31st December, 1953 (Crown Surface) ... 261,508 2 12 93,780 1 13¹/₂ Principal Leases issued as at 31st December, 1953 (Private Surface) ... Principal Leases granted but not issued prior to 31st December, 1953 (Crown Surface) 180,994 0 32 ... Principal Leases granted but not issued prior to 31st December, 1953 38,254 2 07 ••• ••• ••• ••• 24,739 1 $25\frac{1}{2}$ Exploration Licences issued as at 31st December, 1953 . . . • • • Marine Licences issued as at 31st December, 1953 991,261 0 00

STAFF

63. In order to improve the efficiency of the Department all clerical work was centralised in the Port-of-Spain Office as from the 1st October, 1953, together with the technical records formerly kept at San Fernando. A small office is still maintained in San Fernando for the convenience of the technical staff of the Department.

W. N. FOSTER		 Petroleum Technologist
I. S. RUTHERFORD	•••	 Assistant Petroleum Technologist
J. BURSLEM	•••	 2nd Assistant Petroleum Technologist
J. D. Васк		 Inspecting Officer
G. M. COOLMAN		 Chief Draughtsman
W. M. Samlalsingh	•••	 Senior Clerk
P. B. RAMROOP		 1st Class Clerk
I. R. PHILLIPS	• • • •	 2nd Class Clerk
G. E. Mose	•••	 2nd Class Clerk
J. Charles		 2nd Class Clerk
E. A. MAULE		 Stenographer
E. DOUGLAS		 Messenger, Grade II
Vacant	• • •	 Principal Officer
Vacant		 Geologist
		-

I have much pleasure in recording the very able and willing assistance I have received from the members of the staff.

W. N. FOSTER Petroleum Technologist

TABLE 1.	\mathbf{T}	BI	ĿΕ	1.
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ANNUAL STATISTICS OF PRODUCTION, DRILLING, EXPORTS AND IMPORTS

Ітем	Unit	1953	% difference 1953/52	1952	1951	1950	1949	1948	1947	1946	1945
PRODUCTION											
1 Crude Oil	1,000's bbls. do do do do	22,346 264 22,610 17,899 4,711	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	21,258 204 21,462 16,782 4,680	20,843 201 21,044 16,397 4,647	20,632 185 20,817 16,300 4,517	$20,617 \\ 168 \\ 20,785 \\ 16,288 \\ 4,497 \\ 4,497 \\ 100$	$20,107 \\ 182 \\ 20,289 \\ 15,309 \\ 4,980$	20,433 181 20,614 15,373 5,241	$20,142 \\ 187 \\ 20,329 \\ 15,541 \\ 4,788$	$\begin{array}{r} 21,000 \\ 182 \\ 21,182 \\ 16,878 \\ 4,304 \end{array}$
6 TOTAL IMPORTS	1,000's bbls. do do do	16,860 21 16,696 143	$\begin{array}{cccc} - & 1.0 \\ - & 34.4 \\ - & 0.2 \\ - & 47.8 \end{array}$	17,028 32 16,722 274	16,347 36 15,855 456	11,258 23 11,214 21	11,678 25 11,333 320	8,882 22 8,840 20	5,917 21 5,896	2,933 40 2,893 	3,394 409 2,119 866
10 TOTAL EXPORTS <t< td=""><td>1,000's bbls do do</td><td>36,220 1,999 34,221</td><td>+ 4.1 + 8.4 + 3.9</td><td>34,778 1,844 32,934</td><td>34,359 1,918 32,441</td><td>29,150 2,194 26,956</td><td>29,745 2,037 27,708</td><td>26,552 1,706 24,846</td><td>23,092 881 22,211</td><td>20,687 263 20,424</td><td>20,723 20,723</td></t<>	1,000's bbls do do	36,220 1,999 34,221	+ 4.1 + 8.4 + 3.9	34,778 1,844 32,934	34,359 1,918 32,441	29,150 2,194 26,956	29,745 2,037 27,708	26,552 1,706 24,846	23,092 881 22,211	20,687 263 20,424	20,723 20,723
13 Refinery Throughput (Crude and Natural Gas)	1,000's bbls	37,446	+ 3.9	36,041	35,160	29,813	29,617	27,074	25,281	22,713	23,170
14 No. of Wells started	As stated	223	+ 19.3	187	144	149	146	145	162	124	110
15 TOTAL NUMBER OF DEILLING WELLS COMPLETED 16 Number of drilling Wells completed as oll wells 17 Number of drilling Wells abandoned while drilling (Dry holes, &c.) 18 TOTAL FOOTAGE DEILEB (ALL WELLS) 19 Footage drilled on Crown Oil Rights 20 Footage drilled on Private Oil Bights	As stated do Feet do do	224 211 13 917,894 733,401 164,493	$\begin{array}{rrrrr} + & 23.1 \\ + & 19.2 \\ + & 160.0 \\ + & 24.6 \\ + & 26.9 \\ + & 3.8 \end{array}$	182 177 5 736,535 578,031 158,504	$140 \\ 131 \\ 9 \\ 664,887 \\ 521,751 \\ 143,136$	144 136 8 659,565 524,374 135,191	144 130 14 630,209 451,624 178,585	141 134 7 638,681 489,987 148,694	$157 \\ 141 \\ 16 \\ 644,689 \\ 446,798 \\ 197,891$	108 104 4 533,209 406,017 127,192	100 95 5 453,872 345,071 108,801
21 Average depth of Completed Drilling Wells (Item 15)	Feet	4,206	- 1.9	4,286	4,481	4,436	4,065	4,259	4,155	4,772	4,586
22 TOTAL NUMBER OF WELLS PRODUCING (average during year) 23 Number of Wells producing by flowing (average during year) 24 Number of Wells producing by Artificial Lift (average during year)		2,536 639 1,897	+ 5.4 + 7.6 + 4.6	2,407 594 1,813	2,280 584 1,696	2,197 594 1,603	2,089 616 1,473	2,015 629 1,384	$1,876 \\ 625 \\ 1,251$	1,820 615 1,205	1,735 634 1,101
25 AVERAGE DAILY PRODUCTION DURING YEAR PER PRODUCING WELL	Barrels	24.1	0.0	24.1	25.1	25.7	27.0	27.3	30.0	30.4	33.3
26 Average daily production during year per flowing well <th< td=""><td>Barrels do</td><td></td><td>+ 5.3 6.6</td><td>$\begin{array}{c} 47.3\\ 16.6\end{array}$</td><td>48.5 17.0</td><td>50.2 16.6</td><td>51.9 16.6</td><td>50.7 16.7</td><td>54.2 17.8</td><td>55.0 17.9</td><td>59.5 18.2</td></th<>	Barrels do		+ 5.3 6.6	$\begin{array}{c} 47.3\\ 16.6\end{array}$	48.5 17.0	50.2 16.6	51.9 16.6	50.7 16.7	54.2 17.8	55.0 17.9	59.5 18.2
28 TOTAL VALUE OF DOMESTIC EXPORTS 29 TOTAL VALUE OF PETROLEUM AND ITS PRODUCTS 30 TOTAL VALUE OF ASPHALT AND ITS PRODUCTS	do	251,258 194,359 4,103	+ 12.5 + 10.8 31.4	223,331 175,490 5,981	207,584 161,859 3,989	167,562 129,183 2,669	131,790 99,166 3,011	127,105 96,287 2,946	82,262 63,050 1,773	57,572 43,046 1,739	54,815 44,085 477
81 TOTAL NATURAL GAS PRODUCED	Millions of Cubic feet do do. do	34,597 17,677 2,532 14,388	+ 9.8 + 4.8 - 9.1 + 21.4	31,503 16,870 2,786 11,847	31,725 16,616 2,590 12,519	32,312 16,771 2,674 12,867	32,287 17,270 2,387 12,630	30,697 16,430 1,241 13,026	29,618 14,371 902 14,345	27,169 14,190 807 12,172	27,503 13,882 96 13,525

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										DRILLING	WELLS COMP	LETED					
				Average No. of	No. of New	No. of Old	No. of Oil	Con	pleted as l Wells		Abandoned v	while drill	ing	Mont	HLY FOOTAGE D	RILLED	Average
	Mon	гн		Rigs Running	Wells Started	Wells Abandoned	Wells Recom-	UI UI	I Wells	Dr	7 Holes	Techn	ical Causes				Footage drilled per day
				, , , , , , , , , , , , , , , , , , ,	Dia i tea		pleted	No.	Aggregate Depth in Feet	No.	Aggregate Depth in Feet	No.	Aggregate Depth in Feet	Crown Oil Rights	Private Oil Rights	Total	
JANUARY				 26	16	3	12	17	73,253	1	3,500			52,551	12,111	64,662	2,086
FEBRUARY				 26	15	6	9	15	58,376				_	53,235	6,596	59,83 1	2,137
MARCH				 26	20	8	13	19	83,330	3	10,684		—	65,160	18,348	83,508	2,694
APRIL				 28	19	5	9	14	57,719	1	3,456	_	—	56,061	15,516	71,577	2,386
May	•···			 28	15	1	13	17	69,746					62,234	10,434	72,668	2,344
JUNE				 26	20	3	6	13	58,376	1	6,936		_	56,922	17,527	74,449	2,482
JULY				 28	15	4	9	12	48,746	1	4,600		—	63,154	15,404	78,558	2,534
August				 28	22	0	20	20	81,508	1	5,532	_		72,228	10,401	82,629	2,665
September				 27	17	2	16	23	99,110					68,114	10,376	78,490	2,616
October				 27	22	6	19	23	95,671	2	5,0 03			67,628	18,489	86,117	2,778
November				 27	21	3	10	17	72,554		_		—	73,045	11,408	84,453	2,815
December				 26	21	4	16	21	81,406	3	22,624	_	-	63,069	17,883	80,952	2,611
Totals	and A	VERA	GES	 Average 27	223	45	152	211	879,795	13	62,335			753,401	164,493	917,894	Average 2,515

TABLE II-MONTHLY ANALYSIS OF DRILLING WELLS FOR THE YEAR 1953

Average depth of drilling wells completed = 4,206 feet.

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TABLE III

ANALYSIS OF MONTHLY PRODUCTION FOR THE YEAR ENDED 31st DECEMBER, 1953

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All orude oil quantity figures are for dry oil—1 Barrel (bbl.)=34.9726 Imperial Gallons

······································		FLO	WING			Gas/A	IB/LIFT		1	Римри	NG			PLUNGER	LIFT			OTHER MI	ETHODS			SALT W	ATER		No.		Total	No. of	Total	Daily	[BRE	akdown of I	'OTAL PROJ	DUCTION	
			1	Daily	-}		1	Daily	-		1 1	Daily			1 1	Daily][1	Daily		1	% of	Daily	of Wells	No. of	No. of Wells	Wells Drill-	No. of	Average per	Total Oil		Crow	n		Privat	te
Month	No. of Wells	Quantity Bbls.	% of Total Oıl	Average per Well Bbls.	e No. of Wells	Quantity Bbls.	% of Tota Oil	Average per	No. of Wells	Quantity Bbls.	% of Total Oil	Average per Well Bbls.	No. of Wells	Quantity Bbls.	% of Total Oil	Average per Well Bbls.	No. of Wells	Quantity Bbls.	% of Total Oil	Average per Well Bbls.	No. of Wet Wells	Quantity Bbls.	Total Fluid Pro- duced	Daily Average por Wet Well	Pro- duced	Idle Wells	Aban- doned	ing at end of month	Wells Started	Pro- ducing Well	Produced Bbls.	Daily Average per Prod. Well	No. of Wells	Quantity Produced Bbls.	Daily Average per Prod. Well	No. of Wells	Quantity Produced Bbls.
Jenuary February March April May June	607 602 634 643 644 643	932,393 846,946 982,841 974,453 991,893 947,407	50.7 51.9 52.7 51.6	49.5 50.2 50.0 50.5 49.7 49.1	127 120 121 122	116,25 104,67 115,25 116,94 125,94 116,35	3 6.3 4 6.1 7 6.3 8 6.6	31.0 29.4 31.0 32.2 33.3 32.6	1,448 1,454 1,458 1,458 1,481 1,492	703,735 624,131 687,442 655,519 695,662 659,343	37.3 36.3 35 4 36.2	15.7 14.3 15.2 15.0 15.2 14.7	232	105,083 93,104 104,503 101,904 105,541 100,618	5.6 5.6 5.5 5.5 5.5 5.5 5.5	14.4 14.3 14.5 14.6 14.7 14.3	60 50 57 48 55 57	2,576 2,097 2,426 1,980 2,020 1,831	0.1 0.2 0.1	1.4 1.5 1.4 1.4 1.2 1.0	977 924 969	403,709 366,093 465,697 463,573 453,937 425,929	18.0 19.7 20.0 19.1	$14.5 \\ 14.2 \\ 15.4 \\ 16.7 \\ 15.1 \\ 14.4$	2,472 2,466 2,502 2,503 2,534 2,545	1,315 1,331 1,305 1,313 1,299 1,297	966 972 982 989 989 990 994	24 23 22 24 21 27	4,777 4,792 4,811 4,829 4,844 4,863	24.3 24.2 24.4 24.6 24.5 23.9	$1,860,043 \\ 1,670,951 \\ 1,892,466 \\ 1,850,803 \\ 1,921,064 \\ 1,825,552$	27.5 27.2 27.8 28.1 27.9 27.3	1,713 1,718 1,743 1,749 1,760 1,771	$1,459,619\\1,308,302\\1,499,839\\1,475,751\\1,523,104\\1,451,038$	17.0 17.3 16.7 16.6 16.6 16.1	759 748 759 754 774 774 774	400,424 362,649 392,627 375,052 397,960 374,514
Production 1st Jan. to 30th June, 1953 Totals		5,675,933			_	695,43	1 -			4,025,832				610,753				12,930		_	_	2,578,938									11,020,879			8,717,653			2,303,226
July August September October November December	643 634 648 663 654 658	970,134 969,550 963,828 1,022,876 1,000,567 1,016,011	51.6 52.5 52.9	48.7 49.3 49.6 49.8 51.0 49.8	149 133 134 138	118,20 113,35 101,62 98,98 92,81 99,12	$\begin{array}{c cccc} 7 & 6.0 \\ 7 & 5.5 \\ 8 & 5.1 \\ 6 & 4.9 \end{array}$	24.1 24.5 25.5 23.8 22.6 20.9	1,484 1,481 1,492 1,486 1,496 1,493	678,796 686,192 671,040 703,202 671,026 692,346	36.5 36.5 36.4 35.8	14.8 14.9 15.0 15.3 14.9 14.9	245 247 247 248 247 248 247 248	108,493 107,446 100,030 102,868 101,973 108,744	5.8 5.7 5.4 5.3 5.4 5.4 5.7	14.3 14.0 13.5 13.4 13.8 14.1	32 31 33 52 43 45	1,431 1,443 1,400 5,926 9,024 6,580	0.1 0.1 0.3 0.6 0.4	1.4 1.5 1.4 3.7 7.0 4.7	951 917 939 994	431,093 432,474 431,385 431,120 404,422 434,931	18.7 19.0 18.2 17.7	21.8 14.7 15.7 14.8 13.6 13.6	2,562 2,542 2,553 2,583 2,578 2,597	1,289 1,335 1,341 1,327 1,350 1,346	999 1,000 1,002 1,009 1,012 1,016	27 22 20 19 18 19	4,877 4,899 4,916 4,938 4,938 4,958 4,978	23.6 23.8 24.0 24.2 24.2 24.2 23.9	1,877,055 1,877,988 1,837,925 1,933,860 1,875,406 1,922,810	27.0 27.3 27.4 27.5 27.6 27.1	1,727 1,771 1,785 1,810 1,808 1,831	1,489,856 1,498,095 1,465,557 1,544,007 1,496,928 1,537,735	15.9 15.9 16.2 16.3 18.4 16.2	785 771 768 773 770 766	387,199 379,893 372,368 389,853 378,478 385,055
Production 1st July to 31st Dec., 1953 Totals		5,942,966				624,11	8			4,102,602				629,554				25,804				2,565,425									11,325,044	_		9,032,198			2,292,846
Year's Production Totals		11,618,899			·	1,319,54	9 _	_		8,128,434				1,240,307				38,734	1			5,144,363					_			_	22,345,923			17,749,831			4,596,072
Daily Averages	-+	31,833	1	49.8		3,61	5 -	27.1		22,270		15,1		3,398		14.2		106		2.3		14,094		14.9			1		-	24.1	61,222	27.5	-	48,630	16.4		12,592
Average during year	639		52,0		133		5.9	-	1,477	-	36.4		240	 	5.5		47		0.2		948		18.7		2,536	133/	-	-	-	-]	-	1,770]		766	<u> </u>

Natural Gasoline Production-1953

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From Crown Oil Rights From Private Oil Rights	•••	•••	<i>Barrels</i> 149,338 114,814
Total	•••	•••	264,152

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I. S. RUTHERFORD Assistant Petroleum Technologist

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TABLE IIIA

ANALYSIS OF PRODUCTION FOR 1953 BY OPERATING COMPANIES

(All crude oil quantity figures are for dry oil)

	FL	0 WIN G	Gas/A	IR LIFT	Pu	IPING	PLUNG	ER LIFT	Other	METHODS		SALT W	ATER		A	Daile	T -1-1-01	PRODUCTION	FROM CROW	N OIL RIGHTS	PRODUCT102	N FROM PRIVA	ATE OIL RIGHT
NAME OF COMPANY	Average No. of Wells	Quantity Barrels	Average No. of Wet Wells	Quantity Barrels	% of Total Fluid Prod.	Daily Average per Wet Well	Average No. of Wells Produced	Daily Average per Producing Well	Total Oil Produced Barrels	Daily Average per producing Well	No. of Wells	Production Barrels	Daily Average per producing Well	No. of Wells	Production Barrels								
Antilles Petroleum Company of Trinidad Limited	36	941,541	19	92,440	49	152,441			7	3,586	47	10,130	0.8	0.6	111	29.4	1,190,008	172.3	13	817,660	10.4	98	372,348
Apex (Trmidad) Oilfields Limited	66	1,091,753	43	447,595	210	1,293,572	18	116,446	4	27,306	140	626,648	17.4	12.3	343	23.8	2,976,672	32.4	129	1,526,407	18.7	212	1,450,265
Golding Petroleum Company	2	4,230	-		-		-		-	-			-		2	5.8	4,230				5.8	2	4,230
Kern Trinidad Oilfields Limited	52	661,355	_		103	339,409					28	128,811	11.4	12.6	155	17.7	1,000,764	33.1	39	470,737	12.5	116	530,027
Premier Consolidated Oilfields Limited	8	2,660			175	357,239			4	788	28	117,218	24.5	10.4	187	5.3	360,687	5.2	71	133,579	5.4	115	227,108
Siparia (Trinidad) Oilfields Limited	15	233,494			46	234,360					29	197,323	29.7	18.6	61	21.0	467,854	21.0	61	467,854			
Trinidad Central Oilfields Limited	21	711,190	1	111	127	758,806				67	62	406,966	21.7	18.0	148	27.2	1,470,174	27.0	149	1,470,174		<u> </u>	
Trinidad Leaseholds Limited	156	3,153,480	3	14,107	487	3,026,313			-		366	1,585,226	20.4	11.9	646	26.3	6,193,900	25.5	596	5,556,767	34.2	51	637,133
Trinidad Petroleum Development Company Limited	108	1,767,623	20	318,390	26	70,948	220	1,095,820	_		74	1,051,850	24.4	38.9	375	23.8	3,252,781	23.5	345	2,965,298	26.3	30	287,483
United British Oilfields of Trinidad Limited	175	3,051,573	47	446,906	253	1,895,346	2	28,041	32	6,987	174	1,020,191	15.8	16.1	509	29.2	5,428,853	32.4	367	4,341,375	21.0	142	1,087,478
Total	639	11,618,899	133	1,319,549	1,477	8,128,434	240	1,240,307	47	38,734	948	5,144,363	18.7	14.9	2,536	24.1	22,345,923	27.5	1,770	17,749,851	16.4	766	4,596,072

BOWN RIGHTS Barrels	PRIVATE OIL RIGHTS Barrels	TOTAL Barrels
40.001		
46,991	70,017	117,008
17,470	36,173	53,643
84,877	8,624	93,501
149,338	114,814	264,152
	84,877	84,877 8,624

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TABLE IV

PRODUCTION AND DISPOSAL OF NATURAL GAS

 $(All \ figures \ in \ thousands \ of \ cubic \ feet)$

	l	Gas Pro	DUCTION			Gas Disposal		
1953		Gas Production	Inter Company Sales and Transfers	Used as Fuel	Replaced in formation	Losses and unaccounted for	Not collected	Vented as surplus
January		2,770,642	952,956	1,443,458	223,541	268,142	529,632	305,869
February		2,555,989	861,711	1,266,417	209,646	235,555	476,739	347,632
March		2,889,887	1,036,216	1,489,452	215,367	265,679	573,893	345,496
April		2,886,888	1,032,467	1,428,678	197,610	309,175	555,209	396,216
May		2,977,616	1,019,021	1,404,884	231,343	299,514	535,886	505,989
June		2,864,017	1,049,140	1,457,717	206,132	291,684	501,990	406,494
July	•••	2,953,676	1,074,413	1,537,614	194,277	264,809	552,211	404,765
August		2,947,963	1,086,141	1,529,786	182,958	293,509	514,763	426,947
September		2,853,756	1,062,374	1,502,235	202,677	227,556	473,151	448,137
October		2,971,860	1,121,014	1,526,403	194,169	221,899	504,318	525,071
November		2,919,705	1,071,407	1,525,617	218,535	244,050	480,418	451,085
December		3,024,615	1,116,005	1,564,802	256,184	204,176	491,409	508,044
TOTALS		34,596,614	12,482,865	17,677,063	2,532,439	3,125,748	6,189,619	5,071,745
Percentage of Total		100		51.1	7.3	9.0	17.9	14.7

TABLE IVA

PRODUCTION AND DISPOSAL OF NATURAL GAS

(All figures in thoussands of cubic feet).

		GAS PR	DUCTION			Gas Disposal		
		Gas Production	Inter Company Sales and Transfers	Used as Fuel	Replaced in formation	Losses and unaccounted for	Not collected	Vented as surplus
January		2,671,340	902,435	1,403,328	244,906	112,359	428,106	482,641
February		2,587,693	870,034	1,294,094	209,686	170,976	337,603	575,334
March		2,658,943	927,353	1,440,963	225,956	145,939	421,603	424,482
April		2,558,830	920,123	1,398,854	222,394	127,454	406,224	403,904
May		2,604,680	935,278	1,440,533	239,911	111,788	394,818	417,630
June		2,566,831	954,032	1,361,707	249,696	130,679	458,208	366,541
July	•••	2,701,198	1,050,638	1,458,501	233,179	173,602	425,438	410,478
August	•••	2,727,842	1,018,880	1,461,949	246,786	185,715	436, 885	396,507
September	•••	2,608,557	967,663	1,443,500	233,494	157,896	455,462	318,205
October		2,581,606	878,902	1,369,602	239,648	176,593	442,862	352,901
November		2,556,088	911,941	1,368,276	223,747	176,759	491,867	295,439
December		2,679,225	950,765	1,429,048	216,220	98,135	441,433	494,389
Totals		31,502,833	11,288,044	16,870,355	2,785,623	1,767,895	5,140,509	4,938,451
Percentage of Total		100		53.6	8.8	5.6	16.3	15.7

TABLE V

RETURN OF PRODUCTION, STOCKS AND DISPOSAL OF PETROLEUM DURING THE YEAR ENDED 1953

(All figures in barrels)

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									R	EFINED P	RODUCTS						
		Pro	le and ocess		N SPIRIT	Motor Spirit	White Spirit	Burning Oil	Vapour- ising	Gas and Diesel	(All	Lub. Oil and		Other Finished	Liqui- fied Petro-	Feed or Blending Stock	Total (All Products)
			Dils	100 Octane	Other Grades				Oil	Oils	Grades)	Greases		Products	leum Gas	for Transfer	
1. Opening Stocks 1st Janu	ARY, 1953	1,8	887,239	42,102	115,324	400,290	1,000	70,200	259,983	496,852	1,255,319	19,278	45,303	43,835	74	370,520	3,120,080
2. CRUDE OIL PRODUCTION IN PETROLEUM SPIRIT	CLUDING CASING H		310,075	—	_											_	
3. Imports: Venezuela		15,0	20,776								*276,503					—	276,503
Colombia		1,0	38,534											_		_	
Other Countries		7	79,885	·								20,547					20,547
TOTAL IMPOR	TS	16,8	339,195								*276,503	20,547					297,050
4. Runs to Stills		37,4	446,038														
5. PRODUCTION OBTAINED				407,725	1,269,978	6,837,906	2,417	781,836	3,166,135	5,347,678	16,443,084	1,303	554,217	715,694	3,524	486,089	36,017,586
6. CONSUMPTION: Trinidad and	l Tobago		50,097		11	565,649	1,440	146,226	17	204,049	†486,929	24,923	10,138	191,551	3,493	10,235	1,644,661
Bunkers	••• •••			42,801	31,379					2,193,116	8,304,136						10,571,432
Refinery Fu	el										86,753						86,753
TOTAL CO	NSUMPTION		50,097	42,801	31,390	565,649	1,440	146,226	17	2,397,165	8,877,818	24,923	10,138	191,551	3,493	10,235	12,302,846
7. SHIPMENTS: Sterling Areas	•••			254,797	2 09,777	4,320,937		347,266	2,883,937	1,722,647	3,408,632	2,690	291,353	358,681		79,060	13,879,777
North America	• • • • • • • • • • • • • • • • • • • •	1,9	998,507								1,589,818	·		5,859		351,334	1,947,011
Other America	n Countries										29,312		15,659				44,971
Western Hemi	sphere			66,998	100,057	1,451,793		169,251		473,220	1,879,939	·	3,114	6			4,144,378
O.E.E.C. Cour	tries			17,971	911,826	348,471		86,245	277,184	692,184	1,141,024		110,761	73,401			3,659,067
Rest of the W	orld									49,776	88,080)	113,355	1,037			252,248
TOTAL SH	IPMENTS	1,9	998,507	339,766	1,221,660	6,121,201		602,762	3,161,121	2,937,827	8,136,805	\$ \$2,690	534,242	438,984		430,394	23,927,452
8. CLOSING STOCKS 31ST DECK	MBER, 1953	1,6	379,435	67,260	132,252	551,346	1,977	, 103,048	264,980	509,538	960,283	13,515	55,140	128,994	105	415,980	3,204,418
9. BALANCE NOT SPECIFICALLY	ACCOUNTED FOR	1	62,432														

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* Re-exported as Bunkers. † Includes 123,068 Barrels Flux Oil used for conditioning Lake Asphalt for export. ‡ Includes 2,116 Barrels of Lubricating Oil re-exported.

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TABLE VI

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Item	HEAD OR SUB-HEAD	1953	% difference 1953/52	1952	1951	1950	1949	1948	1947	1946	19 4 5	1944
	CROWN ROYALTIES, TAXATION, &C.	\$		\$	\$	\$	\$	\$	\$	\$	\$	\$
1 2 3 4 5 6 7 8 9 10 11 12 13 14	CustomsExcise Duty on Petroleum SpiritLand and Building TaxesVehicles, Licences and RegistrationTaxes on IncomeReimbursements—Petroleum DepartmentEarnings of Government DepartmentsSundriesRoyalty on OilForests—Sale of TimberExploration LicencesHarbour Dues on Crude Oil and ProductsSUB-TOTALSItems 1-13	$\begin{array}{c} 1,191,346\\ 141,361\\ 228,180\\ 118,741\\ 15,574,972\\ 32,644\\ 9,436\\ 39,592\\ 7,011,584\\ 68,255\\ 68,174\\ 4,356\\ 809,507\\ 25,298,148 \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{r} 1,204,736\\ 132,817\\ 113,301\\ 107,868\\ 17,091,094\\ 27,750\\ 17,784\\ 42,365\\ 6,592,399\\ 85,031\\ 61,701\\ 14,192\\ 753,598\\ 26,244,636\end{array}$	$\begin{array}{r} 697,095\\ 90,291\\ 100,526\\ 90,885\\ 13,715,292\\ 30,287\\ 10,804\\ 28,177\\ 6,508,520\\ 99,189\\ 42,594\\ 3,366\\ 732,802\\ 22,149,828 \end{array}$	$\begin{array}{c} 974,118\\ 115,637\\ 101,203\\ 107,647\\ 8,704,846\\ 32,151\\ 10,504\\ 31,917\\ 5,823,226\\ 81,233\\ 68,899\\ 9,797\\ 587,516\\ 16,648,694 \end{array}$	$\begin{array}{c} 1,238,426\\ 36,910\\ 84,754\\ 69,371\\ 13,292,777\\ 24,611\\ 5,045\\ 64,386\\ 3,596,251\\ 74,217\\ 38,715\\ 3,864\\ 585,901\\ 19,115,228\\ \end{array}$	778,276 $$	$\begin{array}{r} 650,525\\ \hline \\ 150,919\\ \hline \\ 3,552,074\\ 23,884\\ 2,079\\ 13,190\\ 1,976,989\\ \hline \\ 37,924\\ 13,956\\ 367,345\\ 6,788,885\end{array}$	$\begin{array}{r} 370,193\\ \hline 167,062\\ 2,720,744\\ 16,808\\ 1,319\\ 7,658\\ 1,287,917\\ \hline 22,667\\ 21,031\\ 226,055\\ 4,851,454\\ \end{array}$	$\begin{array}{r} 636,035\\ \hline 120,484\\ \hline \\ 3,076,581\\ 21,839\\ 555\\ 10,351\\ 1,428,160\\ \hline \\ 23,849\\ 10,757\\ 190,480\\ 5,519,091\\ \end{array}$	709,372 $130,733$ $2,666,052$ $19,176$ 760 $15,472$ $1,351,531$ $19,569$ $16,060$ $169,513$ $5,098,238$
$15 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21$	VARIOUS SERVICES Wharves and Harbours (Rentals, &c.) Post Office Rent of Government Property Government Railway and Telegraph Fees and Payments for Specific Services SUB-TOTAL Items 15–19 GENERAL TOTAL	$\begin{array}{r} 82,279\\ 45,613\\ 10,320\\ 119,097\\ 35,258\\ 292,567\\ 25,590,715\end{array}$	$\begin{array}{cccc} + & 10.4 \\ - & 9.1 \\ - & 3.8 \\ - & 28.0 \\ + & 19.1 \\ - & 11.4 \\ - & 3.7 \end{array}$	$74,499 \\ 50,154 \\ 10,732 \\ 165,312 \\ 29,609 \\ 330,306 \\ 26,574,942$	$\begin{array}{r} 37,029\\ 43,140\\ 9,523\\ 151,930\\ 22,600\\ 264,222\\ 22,414,050\end{array}$	27,182 30,529 5,588 137,501 26,146 226,946 16,875,640	26,350 34,656 11,151 115,539 12,308 200,004 19,315,232	39,027 25,061 4,174 101,209 9,294 178,765 13,227,663	$127,194\\28,066\\5,662\\110,571\\16,261\\287,754\\7,076,639$	$\begin{array}{r} 47,767\\ 25,405\\ 49,999\\ 107,499\\ 11,060\\ 241,730\\ 5,093,184\end{array}$	50,533 19,424 2,509 77,260 10,331 160,057 5,679,148	$\begin{array}{c} 28,259\\ 19,166\\ 1,079\\ 62,734\\ 8,009\\ 119,247\\ 5,217,485\end{array}$
	 A—Total Revenue of Colony and Government Operated Services B—Percentage of 'A' contributed by the Oil Industry C—Percentage of 'A' less Items 13, 15 and 18 con- tributed by Oil Industry D—Excise collected on Petroleum Products (including duty shown under Item 1 above) 	74,535,864 34.3 36.1 1,714,221	+ 2.1 - 5.8 - 5.7 + 9.9	73,013,672 36.4 38.3 1,560,225	65,215,814 34.4 36.3 1,454,567	56,038,019 30.1 31.9 1,367,860	58,391,567 33.1 36.5 2,394,109	49,593,902 26.6 27.7 2,381,909	42,075,147 16.8 17.4 2,135,938	47,776,085 10.7* 11.2 1,762,496	34,900,299 16.3 17.5 1,491,779	29,158,819 17.9 1,255,876

STATEMENT SHOWING CONTRIBUTIONS BY THE OIL INDUSTRY TO COLONY REVENUE AND GOVERNMENT OPERATED SERVICES

* Drop in percentage of total revenue contributed by Oil Industry in 1946 was due to total revenue of Colony being increased by re-payment by His Majesty's Treasury a loan of \$9,200,000.

TABLE VII

STATEMENT SHOWING THE AMOUNT OF MONEY DISBURSED IN THE COLONY AND ON OVERSEAS PURCHASES OF MATERIALS BY THE OIL INDUSTRY

	1953	% difference 1953/52	1952	1951	1950	1949	1948	1947	1946	19 4 ŏ	1944
Moneys Earned or Payable in the Colony	\$	\$	\$	\$	\$	\$	\$	s	\$	\$	\$
1. Total Contribution to Government Revenues (Item 21, Table VI)	25,590,715		26,574,942	22,414,050	16,875,640	19,315,232	13,227,663	7,076,639	5,093,184	5,679,148	5,217,485
2. Payments to Employees *	29,164,141	+ 17.9	24,743,598	20,918,670	18,839,945	17,081,804	16,201,000	14,701,680	13,896,842	12,781,464	12,401,298
3. Payments to Contractors *	7,439,632	_ 2.2	7,604,548	7,527,758	6,125,164	4,488,089	3,543,432	2,855,917	2,369,675	2,410,418	2,871,227
4. Local Purchases of Materials	5,862,292	+ 3.5	5,662,114	4,837,764	3,946,065	4,336,776	3,929,831	4,005,478	3,494,215	3,813,021	3,955,870
5. All other local expenditure (Rents, Private Royalties, &c.)	11,527,727	- 12.0	13,095,125	10,361,590	8,456,079	7,080,430	3,817,212	3,181,947	2,619,541	2,609,726	2,273,991
6. Sub-Total	79,584,507	+ 2.5	77,680,327	66,059,832	54,242,893	52,302,331	40,719,138	31,821,661	27,473,457	27,293,777	26,719,871
OVERSEAS PURCHASES OF MATERIALS (C.I.F. VALUATION)											
7. Importation from the United Kingdom	23,439,951	+ 2.4	22,888,622	17,208,625	14,690,802	14,161,158	8,515,146	6,822,090	4,425,954	1,438,971	1,019,965
Canada	1,065,818	+ 15.0	927,095	944,464	724,216	516,130	1				
United States of America	4,329,858	- 30.4	6,217,177	3,401,644	5,469,200	7,766,696	5,690,016	4,758,800	2,322,331	5,136,245	5,085,790
Other Sources	2,032,287	+ 41.8	1,432,977	773,214	947,512	1,012,427)				
8. Sub-Total	30,867,914	1.9	31,465,871	22,327,947	21,831,730	23,456,411	14,205,162	11,580,890	6,748,285	6,575,216	6,105,755
9. GENERAL TOTAL	110,452,421	+ 1.2	109,146,198	88,387,779	76,074,623	75,758,742	54,924,300	43,402,551	34,221,742	33,868,993	32,825,626

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* These amounts include hidden contributions to the direct revenue of the Colony in the form of Customs Duties, Income Tax, Licences, &c.

TABLE VIII

LIST OF OIL OPERATORS IN TRINIDAD SHOWING THE AREAS HELD UNDER MINING LEASE AND EXPLORATION LICENCE

		Lands held under Exploration Licence		OIL RIGHTS HELD	UNDER REGISTERE	D MINING LEASE OF	R MARINE LICENCE	
Item	Companies	Crown Surface i Crown Oilrights	Crown Surface Crown Oilrights	Private Surface Crown Oilrights	Private Surface Private Oilrights	Territorial Waters	High Seas Areas	TOTAL
		A. R. P.	A. R. P.	A. R. P.	A. R. P.	A. R. P.	A. R. P.	A. R. P.
1	(TRINIDAD) LIMITED Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered	===	$\frac{254}{-}$ $\frac{1}{-}$ $\frac{36}{-}$	5,900 2 38	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12,544 0 00 2,800 0 00		31,060 2 15 2,800 0 00
	during 1953 Holdings as at 31.12.53		254 1 36	5,900 2 38	12,361 1 21	15,344 0 00		33,860 2 15
2	APEX (TRINIDAD) OILFIELDS LIMITED Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered during 1953 Holdings as at 31.12.53	3,752 0 19 3,752 0 19	9,401 3 10 258 3 00 258 3 00 9,401 3 10	18,783 3 03 426 1 15 123 2 19 19,086 1 39	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$			31,359 1 00 8,413 3 07 382 1 19 39,390 2 28
	DOMINION OIL LIMITED							
Ð	Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered during 1953 Holdings as at 31.12.53	$12,\overline{924} \overline{0} \overline{00}$ $12,\overline{924} \overline{0} \overline{00}$	39,858 0 00 39,858 0 00	===	$10,\overline{381} \overline{0} \overline{00}$ $10,\overline{381} \overline{0} \overline{00}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Golding Petroleum							
1	COMPANY Holding as at 31.12.52 Holding acquired during 1953 Holdings surrendered during 1953 Holdings as at 31.12.53			===	$ \begin{array}{ccccccccccccccccccccccccccccccccc$			$ \begin{array}{ccccccccccccccccccccccccccccccccc$
U	LIMITED Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered during 1953		$\frac{346}{-}$ $\frac{1}{-}$ $\frac{30}{-}$	$\begin{array}{cccc} 610 & 3 & 23 \\ \hline & & - & - \\ \hline & & - & - \\ \hline & & - & - \\ \hline \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5,760 0 00 5,760 0 00 5,760 0 00		20,175 3 36 5,777 2 06 5,760 0 00 20,193 2 02
	Holdings as at 31.12.53		346 1 30	610 3 23	13,476 0 29	5,760 0 00		
t	NATIONAL MINING COR- PORATION LIMITED Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered during 1953	===			2,760 <u>3</u> <u>06</u> <u>56</u> 0 03	= = =		$ \begin{array}{ccccccccccccccccccccccccccccccccccc$
_	Holdings as at 31.12.53		10,139 0 10	1,608 3 02	2,704 3 03			14,452 2 15
7	OILFIELDS LIMITED Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered	===	500 0 00	$1,026 \ 2 \ 11$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	===		5,127 3 36 29 3 33
	during 1953 Holdings as at 31.12.53		500 0 00	1,026 2 11	3,631 1 18			5,157 3 29
8	TIMOTHY ROODAL Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered during 1953			9 2 12				9 2 12
	Holdings as at 31.12.53			9 2 12				9 2 12
9	SIPARIA (TRINIDAD) OILFIELDS LIMITED Holdings as at 31,12.52 Holdings acquired during 1953 Holdings surrendered during 1953		2,008 3 00	10,976 3 28	79 2 17			13,065 1 05
	Holdings as at 31.12.53		2,008 3 00	10,976 3 28	79 2 17			13,065 1 05
10	TRINIDAD CENTRAL OILFIELDS LIMITED Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered during 1953	===	6,996 2 31		35 2 00			7,032 0 31
	Holdings as at 31.12.53		6,996 2 31		35 2 00			7,032 0 31
11	LIMITED Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered during 1953	= = =		===	$3,275 \ 1 \ 00$	= = =	= = =	3,275 1 00
	Holdings as at 31.12.53				3,275 1 00			3,275 1 00
12	TRINIDAD LEASEHOLDS LIMITED Holdings as at 31.12.52 Holdings acquired during 1952 Holdings surrendered during 1953	1,562 0 00	$egin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$15,780 0 05 \\ 311 1 23$	*8,826 1 03 13,305 3 30 271 1 01	= = =		*8,826 1 03 120,121 1 09 3,650 2 23
	Holdings as at 31.12.53	1,562 0 00	92,541 1 13	16,091 1 28	*8,826 1 03 13,577 0 31		= = =	*8,826 1 03 123,771 3 32
 13	Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered	839 2 06 1,788 0 37	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12,213 3 39	13,490 1 06 117 1 13	147,723 0 00	83,434 0 00	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
	during 1953 Holdings as at 31.12.53	839 2 06 1,788 0 37	6,974 2 37	12,213 3 39	13,607 2 19	147,723 0 00	83,434 0 00	839 2 06 265,741 2 12
14			22,041 0 14	7,861 2 04 1,325 1 16	31,595 3 00	134,000 0 00	91,000 0 00	61,498 1 18 237,124 2 $34\frac{1}{2}$
	Holdings surrendered during 1953	4,713 0 091	6,086 1 09 47 3 22	1,325 1 16 36 3 26	2,674 2 11	104,000 0 00	91,000 0 00	2,759 1 19
	Holdings as at 31.12.53	4,713 0 091	28,079 2 01	9,149 3 34	28,921 0 29	134,000 0 00	91,000 0 00	295,863 2 331
15	UNITED BRITISH OILFIELDS OF TRINIDAD LTD. Holdings as at 31.12.52 Holdings acquired during 1953 Holdings surrendered during 1953		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	*532 2 28 12,686 3 18 408 3 04			*532 2 28 43,481 0 14 50,718 2 07 408 3 04
	Holdings as at 31.12.53		64,407 3 04	17,104 3 391	*532 2 28 12,278 0 14	= = =		$^{+532}$ 2 28 93,790 3 17 $\frac{1}{2}$
	GRAND TOTAL	24,739 1 251	261,508 2 12	93,780 1 131		470,827 0 00	520,434 0 00	1,502,145 2 35

 GRAND TOTAL
 24,739
 1
 251
 261,508
 2
 12
 93,780
 1
 131
 130,856
 1
 24
 470,827
 0
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 520,434
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 01,502,145
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 * Held jointly by Trinidad Leaseholds Limited and United British Oilfields of Trinidad Limited.

TABLE IX

IMPORTANT EXPLORATION OR OUTSTEP WELLS AND DEEP EXPLOITATION WELLS DURING 1953

Company	Well No.	Total Depth Feet	Remarks	Map Reference Appendix H
Antilles Petroleum Company (Trinidad) Limited	. Pointe Ligoure ALS-2	7,488	Deviated on to Submarine Licence ; com- pleted in upper zone owing to mechanical difficulties in bottom hole	D-6
Apex (Trinidad) Oilfields Limited	. Fyzabad 537	14,889 (8,677 feet included in 1952 Report)	. Deepest well in the Colony ; producer from the Cruse Sands	F-6
	do. 539 do. 544 do. 549 do. 553	8,598 (5,687 feet included in 1952 Report) 8,136 8,262 7,435	. Producer	F-6 F-6 F-6 F-6
Trinidad Central Oilfields Limited	. Wilson 54 do 56 Balata BC-3	9,930 (9,698 feet included in 1952 Report) 10,088 6,774	Producer (Joint interest with T.L. Ltd.)	H-6 H-6 L-4
Trinidad Leaseholds Limited	. Barrackpore 355	1,401	Drilling in progress. Objective 11,500 feet approximately	H_{-5}
Trinidad Northern Areas Limited	. Charuma 1	11,522	No reservoir rock encountered. Abandoned	J_3
Trinidad Petroleum Development Company Limited	Coora 193 do. 195 Moruga 2 do. 3 do. 10	9,550 (All included in 1952 Report) 9,920 (5,703 feet included in 1952 Report) 13,008 (All included in 1952 Report) 11,448 (10,256 feet included in 1952 Report) 8,418	Tests on lower horizons unsuccessful. Producer from upper zone only Small producer Abandoned without test Producer from upper sands only Producer from upper zone	F-7 F-7 I-6 K-6 K-6
United British Oilfields of Trinidad Limited	P. F. Central FC-177 do. FC-180 P. F. West FW-231 do. FW-238 Penal FW-238 do. FW-238 do. FW-238 do. P-195 do. P-202 do. P-207 do. P-212 Cats Hill CO-3 do. BW-1	8,512 7,300 7,600 7,887 10,015 (8,407 feet included in 1952 Report) 9,876 9,071 9,095 (All included in 1952 Report) 8,536 (7,879 feet included in 1952 Report)	Closed in. Tested gas from upper zone Suspended Small producer with high G.O.R. Main objective not present. Small producer from upper zone Producer from upper zone Small producer from upper zone Drilling in progress—Objective 9,300 feet Small producer from upper zone	$\begin{array}{c} \hline D-5 \\ D-6 \\ D-6 \\ D-6 \\ G-6 \\ \hline G-6 \\ H-6 \\ G-6 \\ H-6 \\ G-6 \\ K-5 \\ J-5 \\ J-5 \\ J-5 \\ K-4 \\ \end{array}$

				TABL	ΕХ					
SUMMARY	OF	OLD-TYPE	MINING	LEASES	CRUDE	OIL	SALES,	PRICES	AND	ANALYSES

1	hannal	910706	Immonial	Callona	lamlang	otherwise stated)	

				ROYALTY					Sub-Division	of (Royalty) C	rude into Proc	iucts as per R.	L.E. Analyses			
Half	vearly Assessment	N-44				1	light Fraction	8		Gas	OILS		TOTAL GAS OILS		FUEL OIL	
нан-у	Periods	Nett Production	10 % taken in kind and sold to Producer	Total Sale Price	Average Sale Price per Barrel	Quantity	Percentage	Tetra Ethyl lead to blend to 70/72 Oct. Gasoline	53–57 D.I.	48-52 D.I.	43-47 D.I.	No. 2 Fuel	Quantity	Percentage	Quantity	Percentage
	·	Bbls.	Bbls.	8	\$			Millilitres	Bbls.	Bbls.	Bbls.	Bbls.	Bbls.		Bbls.	
1950	T.L.L	2,300,278	230,027	855,670.07	3.72	28,405		435,744	—		4,774	59,867	64,641		136,981	
July-December	U.B.O.T	1,614,531*	161,580	545,414.91	3.38	16,225		538,668		3,644	22,531		26,175		119,180	
	Apex	134,915	13,492	49,208.12	3.65	1,316		15,331				4,005	4,005		8,171	
	TOTALS AND AVERAGES	4,049,724	405,099	1,450,293.10	3.58	45,946	11.3	989,743		3,644	27,305	63,872	94,821	23.4	264,332	65.3
1951	T.L.L	2,256,226	225,623	852,868.69	3.78	27,592		559,304		_	4,718	60,491	65,209		132,822	
January-June	U.B.O.T	1,545,204*	154,642	536,911.69	3.47	15,522		509,944	4,256		22,289		26,545		112,575	
	Apex	139,876	13,988	51,334.42	3.67	1,302		16,756				4,156	4,156		8,530	
	TOTALS AND AVERAGES	3,941,306	394,253	1,441,114.80	3.66	44,416	11.3	1,086,004	4,256		27,007	64,647	95,910	24.3	253,927	64.4
July-December	T.L.L	2,314,435	231,442	893,998.66	3.86	28,457		607,546	_		4,883	61,818	66,701	_	136,284	
	U.B.O.T	1,451,109*	145,224	502,084.35	3.46	13,778		394,102	3,999	—		21,653	25,652	—	105,794	
	Apex	142,241	14,224	53,455.09	3.76	1,326	-	9,470			-	4,104	4,104	-	8,794	
	TOTALS AND AVERAGES	3,907,785	390,890	1,449,538.10	3.71	43,561	11.1	1,011,118	3,999		4,883	87,575	96,457	24.7	250,872	64.2
1952	T.L.L	2,214,357	221,437	855,782.95	3.86	26,486		416,977			5,331	57,903	63,234		131,717	
January-June	U.B.O.T	1,319,415*	132,045	450,741.22	3.41	14,915		382,925	_	3,488	14,012	126	17,626		99,504	
	Apex	137,133	13,714	51,951.26	3.79	1,319		12,452				3,995	3,995		. 8,400	
	TOTALS AND AVERAGES	3,670,905	367,196	1,358,475.43	3.70	42,720	11.6	812,354		3,488	19,343	62,024	84,855	23.1	239,621	65.3
July-December	T.L.L	2,240,540	224,055	813,962.05	3.63	27,302		437,282			4,993	58,107	63,100		133,653	
	U.B.O.T	1,440,766*	144,189	471,189.56	3.27	18,266		475,259	3,802	_	19,248	110	23,160		102,763	
	TOTALS AND AVERAGES	3,681,306	368,244	1,285,151.61	3.49	45,568	12.4	912,541	3,802	-	24,241	58,217	86,260	23.4	236,416	64.2
1953	T.L.L	2,156,367	215,637	796,295.61	3.69	26,299		234,990			—	59,978	59,978		129,360	
January-June	U.B.O.T	1,494,004	149,517	508,887.00	3.40	19,915		527,074		3,564	20,238		23,802		105,800	
	TOTALS AND AVERAGES	3,650,371	365,154	1,305,182.61	3.57	46,214	12.7	762,064		3,564	20,238	59,978	83,780	22.9	235,160	64.4
July-December	T.L.L	2,119,033	211,903	848,891.52	4.01	25,803		229,671			_	56,578	56,578		129,522	
	U.B.O.T	1,470,452*	147,160	549,735.93	3.74	17,774		422,675		3,062	20,009		23,071		106,315	
	TOTALS AND AVERAGES	3,589,485	359,063	1,398,627.45	3.90	43,577	12.1	652,346		3,062	20,009	56,578	79,649	22.2	235,837	65.7

* In these U.B.O.T. statistical figures, 1 barrel - 35 Imperial Gallons.

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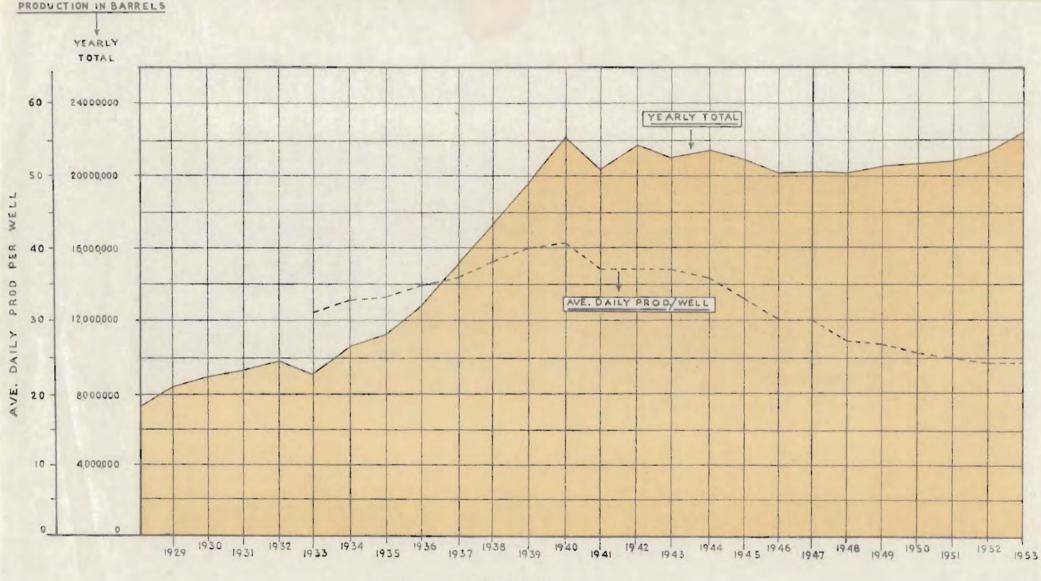
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ANNUAL CRUDE OIL PRODUCTION

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YEARS

FOR FIGURES USED IN CONSTRUCTING GRAPH SEE TABLE I - ITEMS I AND 25-

APPENDIX

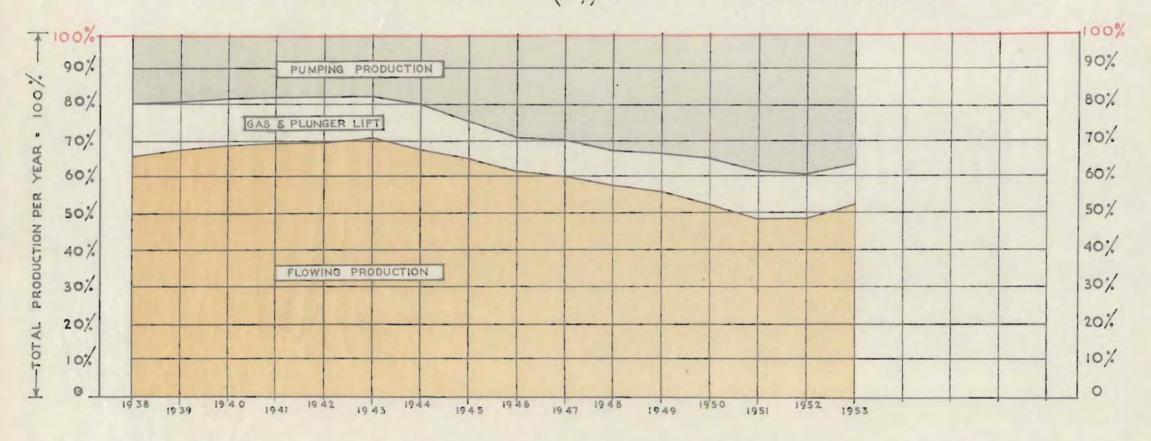
CRUDE OIL PRODUCTION METHODS

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RELATIVE PROPORTIONS OF ANNUAL PRODUCTION (100%) OBTAINED BY THE THREE PRINCIPAL PRODUCING METHODS

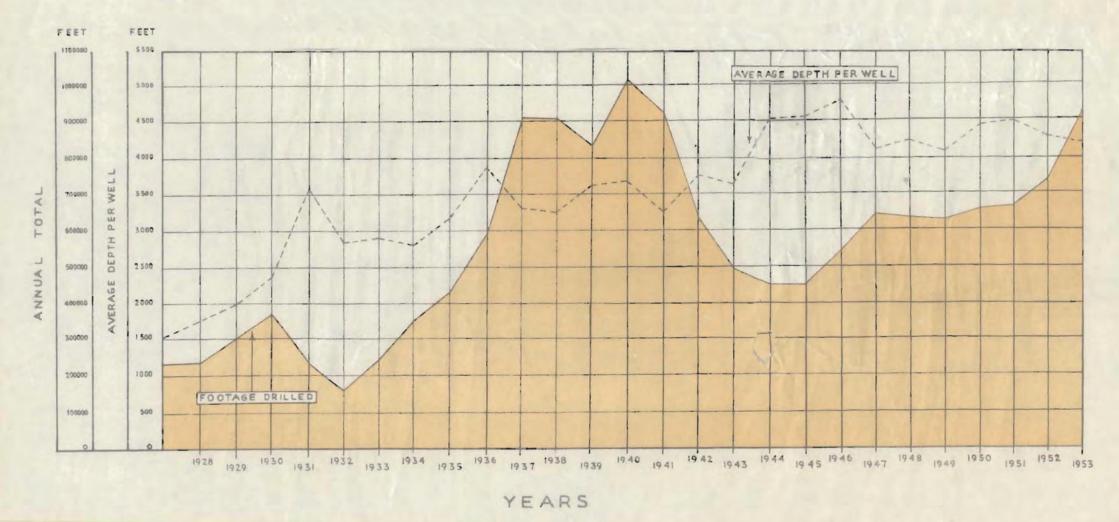


YEARS

SEE TABLE III FOR DETAILED FIGURES FOR 1953

APPENDIX

ANNUAL DRILLING FOOTAGE



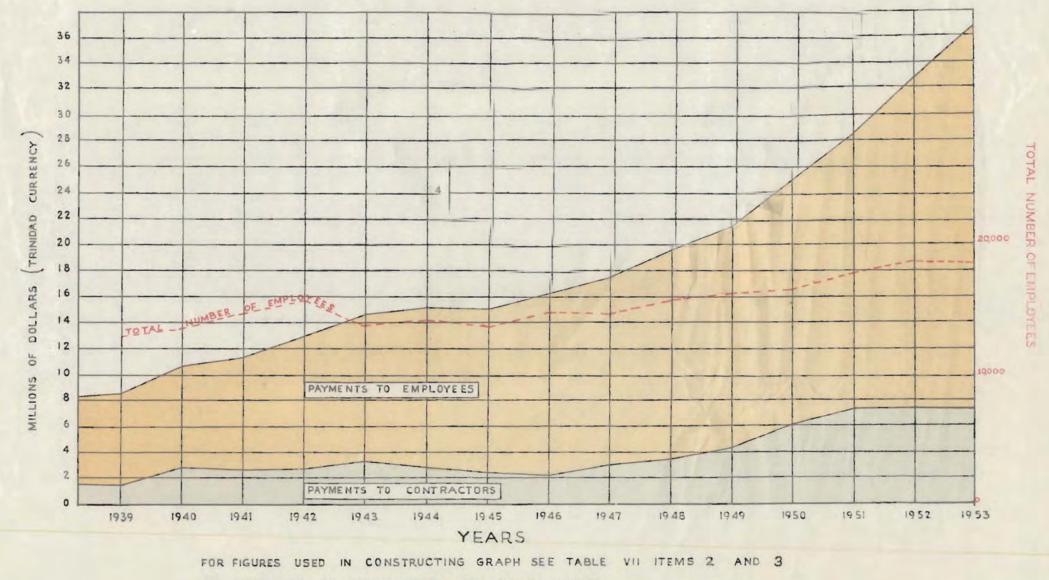
FOR FIGURES USED IN CONSTRUCTING GRAPH SEE TABLE 1 - ITEMS 18 AND 21 --

OIL COMPANIES ANNUAL PAYMENTS TO CONTRACTORS AND

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* 11 ×

EMPLOYEES



N.B. PAYMENTS TO CONTRACTORS ARE MAINLY WAGES

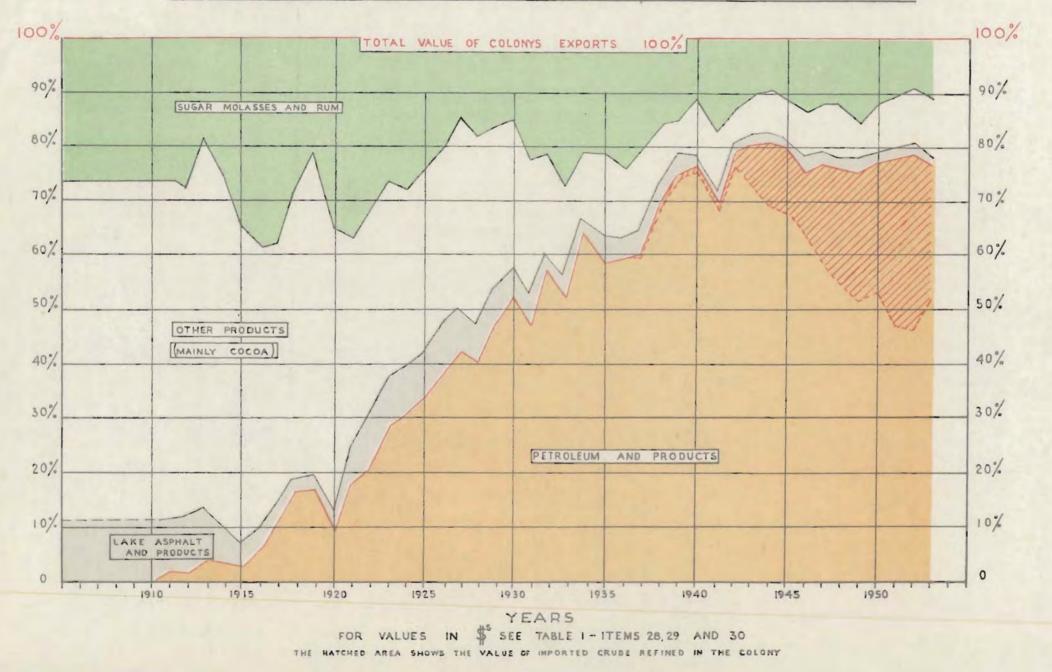
APPENDIX

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PERCENTAGE DISTRIBUTION OF TOTAL VALUES OF COLONY'S EXPORTS

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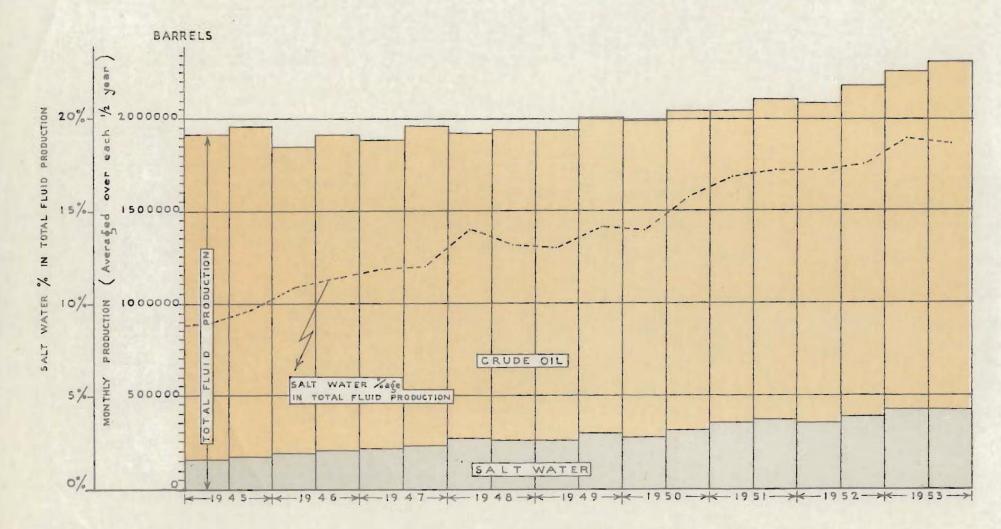
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APPENDIX

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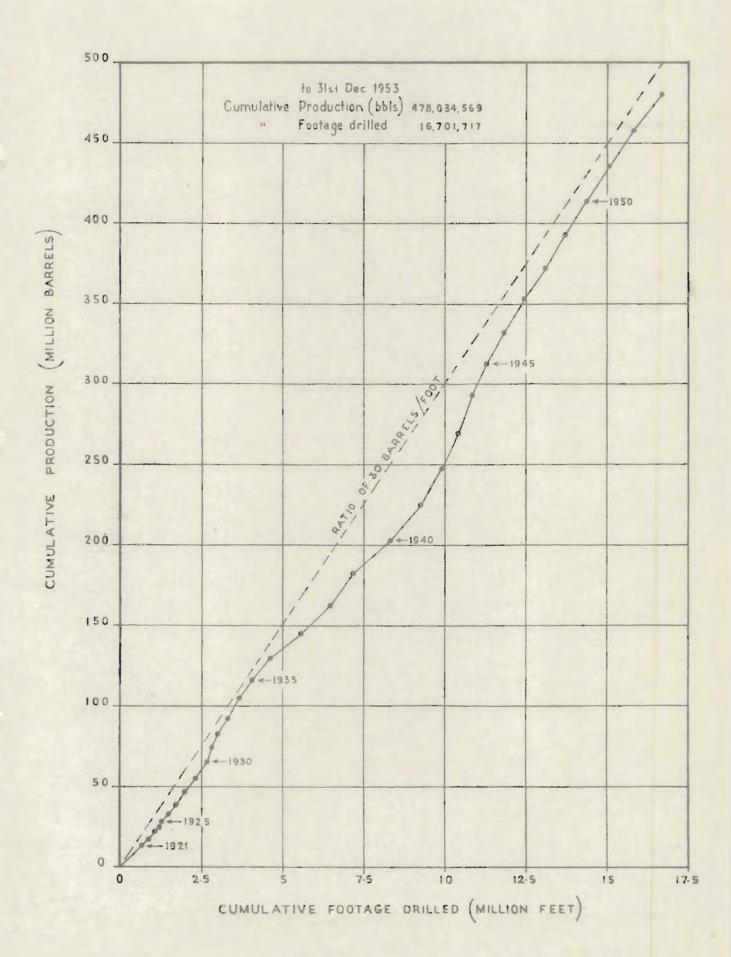
PRODUCTION OF SALT WATER





SEE TABLE 111 FOR 1953 FIGURES IN DETAIL

CUMULATIVE PRODUCTION & FOOTAGE



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