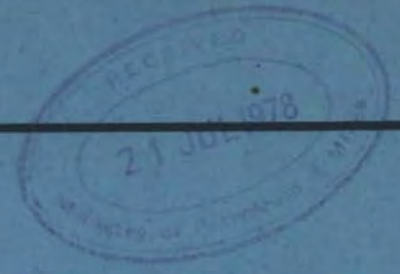


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ANNUAL

ADMINISTRATION

REPORT FOR

THE YEAR

“ 1959 ”

TRINIDAD AND TOBAGO

PETROLEUM DEPARTMENT



ANNUAL

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THE YEAR

1959

ADMINISTRATION REPORT OF THE PETROLEUM DEPARTMENT, 1959

HONOURABLE MINISTER OF INDUSTRY, COMMERCE, TOURISM AND EXTERNAL COMMUNICATIONS:

I have the honour to submit the following report on the activities of the Oil and Asphalt Industries of the Territory for 1959.

THE OIL INDUSTRY

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THE OIL INDUSTRY

INTRODUCTION

1. In 1959 the Trinidad Oil Industry continued its march of progress in all phases of its operations. Drilling activity, represented by almost continuous operation of 30 rigs, resulted in a 6 per cent. increase in total footage over the 1958 figure. Production increased by 9.5 per cent. with a daily average rate of over 112,000 barrels. Marine oil accounted for the greater part of the increased volume.

2. The main features of 1959 operations are as follows:—

	1959	1958	<i>Percentage Change</i>
Total crude oil production, barrels ...	40,918,786	37,355,059	+9.5
Daily average production, barrels/day ...	112,106	102,343	+9.5
Average number of Rigs operating ...	30	32	—6.3
Number of Wells completed ...	278	295	—5.8
Producers completed (Oil and Gas) ...	247	256	—3.5
Success ratio percentage ...	88.8	86.6	+2.5
Footage drilled, feet ...	1,446,586	1,365,129	+6.0

PRODUCTION

3. The territory's crude oil production for 1959 reached the all-time high of 40.92 million barrels, an increase of 9.5 per cent. over the previous year and double that of eight years ago. The daily average production per well of 34.9 barrels, though low by International Standards, was 7 per cent. higher than in 1958. Of the total increase of 3.56 million barrels, marine oil accounted for more than half.

4. Company production statistics are given in the following table:—

<i>Company</i>	1959	1958	<i>Percentage Change</i>
Apex ...	2,926,805	3,142,501	— 6.7
Jones ...	1,964	—	—
Dominion ...	46,594	1,852	+2415.9
Kern ...	1,146,809	1,143,262	+ 0.3
Premier ...	375,192	418,577	— 10.4
Shell ✓ ...	7,435,519	7,996,730	— 7.0
Stekoll ...	—	—	—
T.C.O. ...	1,468,872	1,628,107	— 9.9
T.N.A. ...	3,772,423	1,981,076	+ 90.4
Texaco ✓ ...	17,688,517	15,956,096	+ 10.9
T.P.D. ...	6,056,091	5,086,858	+ 19.1
TOTALS ...	40,918,786	37,355,059	+ 9.5

5. Apex was forced to close in production owing to the lack of a market. The decline in T.C.O.'s production can be accounted for by a severely curtailed drilling programme during 1959. Shell, on the other hand did not curtail drilling but directed its interest mainly towards exploration tests which were largely unsuccessful. The development drilling undertaken by this Company with one or two rigs was insufficient to offset natural production decline.

The most significant increases in production came from the Marine Soldado Field of T.N.A., the Forest Reserve and Palo Seco (Grande Ravine) fields of Texaco, the Moruga Fields of T.P.D., and the Point Fortin East Field of Shell.

6. The following table gives the principal areas from which new or additional production was obtained:—

Area	1958	1959	Volume Increase	Increase %	Principal reasons for Increase
Texaco—Forest Reserve ...	7,642,529	7,836,484	193,955	2.5	Recompletion Outstep Drilling and Secondary Recovery
T.N.A. (Total) ...	1,981,076	3,772,423	1,791,347	90.4	Outstep and Development Drilling
Texaco—Palo Seco ...	2,989,904	3,483,109	493,205	16.5	do.
Shell—Point Fortin East ...	951,263	1,207,996	256,773	27.0	do.
Shell—Innis ...	695,249	783,083	87,834	1.3	Outstep Drilling
T.P.D.—Moruga ...	621,828	980,295	358,467	57.6	Outstep and Development Drilling and Well Stimulation
Dominion—Marine ...	—	46,594	—	—	New Field
T.P.D.—North Marine ...	—	15,328	—	—	do.

7. Marine production continued to be the highlight of new oil finding for 1959. The Soldado field alone yielded 3,472,786 barrels, an increase of 119 per cent. over 1958. Production from all oil wells entitled to "Submarine Well Allowances" during the year was 4,266,969 barrels or 10.4 per cent. of total territorial production. For December alone, this production was 515,895 barrels or 14.4 per cent. of the total. The corresponding data for December, 1958, were 280,661 barrels and 8.2 per cent.

8. Dominion Oil brought in South Domoil Wells 1 and 2 during the year. Both wells are close to the International Boundary line in the Gulf of Paria where the depth of water is about 90 feet.

9. T.P.D. completed their North Marine No. 1 as a producer in the Gulf. The well was drilled to 9,010 feet but production was derived from the shallow Morne l'Enfer formation.

10. On the land areas increased production was derived from:—

- (a) Wells drilled as (short) outsteps to known fields.
- (b) Wells recompleted in cased-off pay zones. Often these were converted in the process from single to dual completions.
- (c) Increasing use of the techniques of "plastic packing" for sand exclusion, "fracturing" and other well stimulation methods; and
- (d) Secondary recovery operations.

There was only one new discovery on land in 1959. This was the Guayaguayare Well 305 drilled in the Navet area, south-east of the abandoned T.C.A. Lizard Springs Field.

11. For further details on production see Tables III and IIIA.

DRILLING

12. (a) *General*: 278 wells were drilled during the year under review of which 247 or 88.8 per cent. were completed as producers. This compares with a success ratio of 86.6 per cent. for 1958.

13. Total footage drilled for the year was 1,446,586 feet. Successful wells accounted for 1,222,216 feet, unsuccessful wells for 207,009 feet while 17,361 feet represented footage for wells still uncompleted at the year end. Despite the fewer completions, the total footage drilled in 1959 was 6 per cent. greater than 1958. The average depth of a completed well was 5,141 feet which was 11.7 per cent. higher than the previous year. The association of greater footage with fewer wells is indicative of the trend that new reserves are to be found only at greater depths. The era of shallow production in Trinidad is, in a general sense, now passed. The cost of finding new reserves has increased and will continue to do so in the future as operators are compelled to drill into deeper horizons.

14. The pertinent statistics for 1959 are as follows:—

		1959 DRILLING				Percentage
<i>Exploratory Tests</i>		<i>Oil</i>	<i>Gas</i>	<i>Dry</i>	<i>Total</i>	<i>Successful</i>
(a) Marine	...	12	—	2	14	85.7
(b) Land	...	7	1	13	21	33.3
<i>Development Wells</i>						
(a) Marine	...	19	—	1	20	95.0
(b) Land	...	208	—	13	221	94.1
		246	1	29	276	89.1
				Left closed in ...	2	
				Grand Total ...	278	

15. (b) *Exploratory Drilling*: Marine exploratory tests proved to be more rewarding in 1959 than their counterparts on land. Dominion Oil discovered condensate production in the South Domoil Field. T.P.D. drilled one producer on its Marine Lease. The objective proved to be dry but production was obtained from a shallow Morne l'Enfer horizon. The wells involved were all drilled from De Long, Mobile Jack-up type barges.

Exploratory drilling on land yielded only one significant find: Guayaguayare 305, south-east of the abandoned Lizard Springs field, discovered a thick oil bearing section in the Gros Morne formation. Apart from this, no other wildcat well on land was successful. The thirty-three per cent. success ratio for land exploratory tests given in the table above pertains largely to outsteps from known fields.

16. Apex drilled a deep wildcat at Chatham in the Cedros area to a depth of 14,850 feet. No commercial oil was found.

17. Shell was very persistent with their exploratory tests in the Ortoire region where 7 wells were drilled. All were dryholes.

18. Trinidad Petroleum Development drilled a deep test to 11,961 feet, in the Gautier-Cretaceous in the Quarry Field. The objective was dry but production was obtained from upper sands.

19. This is the third successive year in which wildcat exploratory tests on land failed to find new fields of significance.

20. For further details on drilling consult Tables II and IX.

MOVEMENT OF CRUDE OIL AND PRODUCTS

21. The composite picture of crude oil movement and products disposal is given in detail in Table V which can be summarized as follows:—

CRUDE OIL BALANCE			
<i>Availability</i>	<i>Million Barrels</i>	<i>Disposal</i>	<i>Million Barrels</i>
Stock 1st January ...	... 2.16	Exports ...	... 3.35
Production ...	41.14	Local consumption ...	... 0.05
Less Loss ...	0.86*	Delivered to Refinery ...	... 68.06
Imports ...	... 31.35	Stock on 31st December ...	... 2.33
	<u>73.79</u>		<u>73.79</u>

REFINED PRODUCTS BALANCE			
<i>Availability</i>	<i>Million Barrels</i>	<i>Disposal</i>	<i>Million Barrels</i>
Stock on 1st January ...	... 4.21	Exports ...	... 54.56
Crude from Fields	68.06	Bunkers ...	... 13.45
Less Refinery Loss	0.48	Local consumption including Refinery Fuel ...	... 2.61
	<u>67.58</u>	Stock on 31st December ...	... 3.62
Products obtained ...	... 67.58		
Imports ...	... 2.45		
	<u>74.24</u>		<u>74.24</u>

REFINERY CAPACITY

22. The total Crude Distillation capacity of Trinidad for 1959 was 190,000 barrels/day which shows an increase of 4,000 barrels/day over the 1958 figure. There were three Refineries in operation during the year: (1) Texaco, Pointe-a-Pierre, (135,000 barrels/day); (2) Texaco, Brighton (5,000 barrels/day and (3) Shell, Point Fortin (50,000 barrels/day). The distribution of Crude and product plants throughout the territory is as follows:—

<i>Process</i>	<i>Capacity Barrels/day</i>
1. Crude Distillation (Topping) ...	190,000
2. Cracking (Visbreaking) ...	27,000
3. Catalytic Reforming ...	8,000
4. Alkylation ...	2,500
5. Isomerisation ...	2,000
6. Re-Run ...	29,000
7. Catalytic Cracking ...	28,000
8. Polymerization ...	1,400
9. Vacuum Distillation ...	60,000
10. Naphthenic Oil Residue ...	50
11. Di-Iso-Butylene ...	2,300
12. Bitumen ...	9,500
13. Claus Kiln (Sulphur) ...	25 (long tons/day)

Early in 1959 Texaco commenced the construction of a 100,000 barrel/day crude distillation unit; a 15,000 barrel/day Platformer; and a 20,000 barrel/day Hydrotreater.

*Water Reported as Oil.

THE ASPHALT INDUSTRY

23. The following table shows the quantity of Natural Asphalt extracted from the Pitch Lake and the quantity of derived products exported or sold locally:—

	<i>Natural Asphalt</i>	<i>Tons</i>	
		1959	1958
Extracted by Works Department for local use		59,397	56,556
Extracted by the Trinidad Lake Asphalt Co.		86,021	76,486
		<u>145,418</u>	<u>133,042</u>

DERIVED PRODUCTS MANUFACTURED BY THE COMPANY

	<i>Tons</i>	
	1959	1958
<i>Exported:</i>		
Crude Asphalt	—	1
Dried Asphalt	50,985	46,380
Cement Asphalt	16,034	14,679
	<u>67,019</u>	<u>61,060</u>
<i>Local Sales:</i>		
Crude Asphalt	3	30
Dried Asphalt	144	138
Cement Asphalt	2,597	2,782
	<u>2,744</u>	<u>2,950</u>

CONTRIBUTION TO REVENUE AND LOCAL DISBURSEMENTS

24. The sum disbursed by the Oil Industry in the Territory during 1959 amounted to \$159.3 million an increase of 9.4 per cent. on the previous year. However, Government's revenue from oil decreased by 12.5 per cent. from \$58.1 million in 1958 to \$50.8 million in 1959. Despite a 9.5 per cent. increase in crude production, a fall in Gulf Coast posted prices tended to cancel out this advantage with the net result that royalty showed only a negligible increase of 0.8 per cent. Another noteworthy factor was a decrease of 19.6 per cent. on taxes on Income which arose chiefly through tax allowances permitted to companies which commenced large-scale Refinery construction during the year. The drop of 32.3 per cent. on Excise Duty on Petroleum Spirit reflected Government's withdrawal of the additional 9 cents per gallon duty on regular gasoline which was imposed on 31st December, 1957, and took effect during 1958.

The increase of 8.7 per cent. on Harbour Dues on Crude Oil and Products is indicative of the increasing trend towards the importation of crude oil for Local Refining. Details of the disbursements are given in Tables VI and VII.

25. The following tables show the contributions of the Oil Industry under each head of revenue listed in the Territory's Estimates. Contributions to the Revenue of the Port Services and also of the Railway and Telegraph are shown separately in order to conform to the present form of presenting the Territory's Estimates.

Contributions by the Oil Industry to the Revenue of the Territory in 1959

Revenue Head in Territory's Estimates	Revenue Received	Oil Industry Contribution	Percentage Contributed by Oil Industry
<i>Ordinary Revenue</i>			
	\$	\$	%
1. Customs and Excise	38,174,206	2,148,922	5.6
2. Licences and Internal Revenue not otherwise classified	8,494,207	148,195	1.7
3. Taxes on Income	52,978,205	29,618,807	55.9
4. Fees and Payments for Specific Services	1,332,824	130,725	9.8
5. County Council	1,170,234	250,461	21.4
6. Reimbursements	3,396,302	53,625	1.6
7. Earnings of Government Departments	1,514,173	4,068	0.3
8. Post Office	2,517,453	62,611	2.5
9. Rent of Government Property	505,058	11,782	2.3
10. Interest	1,779,585	—	—
11. Miscellaneous	1,162,329	96,587	8.3
12. Forests Lands and Petroleum	17,625,380	16,504,790	93.6
TOTAL ORDINARY REVENUE	130,649,956	49,030,573	37.5
<i>Extraordinary Revenue</i>			
13. Premium on Leases (formerly land sales)	40,652	—	—
14. Loans to Public Bodies	331,364	—	—
15. Grants under C.D. & W. Organization	1,624,759	—	—
16. Extraordinary	4,413,432	—	—
TOTAL AS PER TERRITORY'S FINANCIAL STATEMENT, 1959	137,060,163	49,030,573	35.8
A. Port Services	9,776,724	1,633,305	17.2
B. Railway and Telegraph	1,080,498	131,335	12.2
	<u>147,917,385</u>	<u>50,845,213</u>	<u>34.4</u>

EXPORTS OF PETROLEUM AND ITS PRODUCTS

26. The value of Petroleum exports increased by \$23.9 million in 1959 and constituted 83.6 per cent. of all territorial exports. The chief reasons for the upswing were an increase of 9.5 per cent. in indigenous crude production together with a 23.8 per cent. rise on imported crude and products. Exports of Crude Oil and Products rose 17 per cent. from 49.5 million barrels in 1958 to 57.9 million barrels in 1959.

27. Table I gives figures for the exports of Petroleum including re-export of products obtained from imported crude, while Table V gives a detailed breakdown of refined products exported.

28. The following tabulation shows the contribution to the total value of Territorial exports made by Petroleum and other products. The percentage values of these contributions have been graphed in abbreviated form for a number of years in Appendix E.

Exports	1959		1958	
	\$	%	\$	%
Crude Petroleum and Products	363,753,485	83.6	339,944,730	82.4
Sugar refined and unrefined	32,059,065	7.4	30,354,929	7.4
Cocoa Beans	10,063,769	2.3	12,748,135	3.0
Cement	3,632,592	0.8	3,057,763	0.7
Asphalt and Products (excluding Asphalt Cement)	2,122,381	0.5	1,859,986	0.5
Rum	1,910,516	0.4	1,727,219	0.4
Coffee, raw	2,375,778	0.5	2,526,569	0.6
Orange Juice	801,738	0.2	1,366,804	0.3
Grapefruit Juice	1,672,314	0.4	2,775,895	0.7
Bitters	1,037,080	0.2	932,802	0.2
Coconut Oil refined and unrefined	210,715	0.1	667,868	0.2
Shirts	523,438	0.1	388,158	0.1
Grapefruits	503,176	0.1	1,559,202	0.4
Oranges	231,400	0.1	306,792	0.1
Bananas	521,378	0.1	534,112	0.1
All other products	13,489,891	3.2	12,021,021	2.9
TOTAL DOMESTIC EXPORTS	434,908,716	100.0	412,771,985	100.0

ROYALTY ASSESSMENT

29. The Royalty assessed on the crude oil, natural gasoline and natural gas produced on Crown Oil Mining Leases for each half-yearly royalty period during 1957, 1958 and 1959 is shown in the following table:—

SOURCE OF REVENUE	ASSESSMENT FOR HALF-YEARLY PERIOD ENDING											
	31.12.59		30.6.59		31.12.58		30.6.58		31.12.57		30.6.57	
	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.
Royalty on Natural Gas	81,134	85	63,548	43	69,828	42	61,967	51	60,383	21	59,029	14
Royalty on Natural Gasoline	48,646	09	46,565	79	48,745	47	53,075	55	64,694	90	71,433	53
Minimum rents not offset by Royalty on Crude Oil	707,239	44	709,328	54	664,052	17	696,627	49	586,919	89	582,229	63
Royalty on Crude Oil	8,087,272	06	7,746,331	73	7,503,327	20	6,970,439	58	7,479,805	49	7,251,605	19
Half-Yearly Totals	8,924,292	44	8,565,774	49	8,285,953	26	7,782,110	13	8,191,803	49	7,964,297	49
Yearly Totals	17,490,066 93		16,068,063 39		16,868,098 98							
Assessment Totals			16,851,727 75		15,973,913 62							
Drawback claimed	—		—		—		—		—		—	

30. The volumes upon which the above assessments were made were as follows:—

SUBSTANCE ASSESSED FOR ROYALTY	Unit	HALF-YEARLY PERIOD ENDING										
		31.12.59		30.6.59		31.12.58		30.6.58		31.12.57		30.6.57
Natural Gas	M.C.F.	5,408,989	4,236,228	4,600,249	4,131,167	4,025,546	3,857,937					
Natural Gasoline	Gals.	2,692,561	2,707,924	2,755,939	3,009,391	3,349,343	3,602,604					
Crude Oil—Gross	Bbls.	18,733,541	17,394,684	16,812,003	15,440,174	14,919,396	13,591,721					
Crude Oil used free of Royalty	Bbls.	72,025	54,293	52,652	49,866	49,505	51,357					
Crude Oil—Net	Bbls.	18,661,516	17,340,391	16,759,351	15,390,308	14,869,891	13,540,364					
Crude Oil—Average Royalty Value	\$/Bbl.	4.33	4.47	4.48	4.53	5.03	5.36					

31. It will be observed that in 1959 a 12 per cent. increase in the volume of royalty oil was offset by a decrease of $3\frac{1}{2}$ per cent. in posted prices. The high prices of 1957 are a reflection of the high demand period following the Suez crisis. Since then, the discovery of new fields, notably in the Sahara, Libya, Persian Gulf, Lake Maracaibo and Nigeria together with the advent of Soviet oil in Europe and South America has led to a softening in world prices.

32. The data used to evaluate crude oil for Crown Royalty for each of the last six half-yearly royalty periods together with the Royalty on Casinghead Petroleum Spirit for each of these periods is shown in the following table:—

PRODUCTS	AVERAGE PRICE IN W.I. CURRENCY PER BARREL OF 34.9726 IMPERIAL GALLONS FOR THE HALF-YEARLY PERIOD ENDED					
	31.12.59	30.6.59	31.12.58	30.6.58	31.12.57	30.6.57
	\$	\$	\$	\$	\$	\$
Bunker "C" Grade Fuel	3,422,734	3,414,872	3,609,697	3,914,554	4,406,645	4,693,006
No. 2 Fuel	5,811,231	6,647,750	6,218,634	5,965,277	6,532,492	7,243,772
43-47 D.I. Gas Oil	5,885,428	6,726,991	6,307,526	6,058,299	6,622,717	7,325,556
48-52 D.I. Gas Oil	5,976,275	6,816,631	6,307,397	6,147,857	6,712,942	7,414,320
53-57 D.I. Gas Oil	6,066,122	6,906,271	6,458,802	6,237,415	6,803,167	7,503,084
70-72 Oct. M. Leaded Gasoline	6,780,989	6,440,737	6,628,911	6,431,376	7,086,592	7,284,664
Average middle rate for sight drafts on New York. Premium in W.I. Cents per \$1.00 U.S.	71,136,685	70,743,649	71,181,522	70,587,293	71,857,337	71,924,585
Value of Tetra-Ethyl Lead in W.I. Cents per Multilitre	421,770	440,115	449,219	0,443,456	0,432,255	0,429,451
Royalty in W.I. Cents per Imperial Gallon on C.H.P.S.	1,920,024	1,869,195	1,912,706	1,956,618	2,058,014	2,087,597

LOCAL SALES OF PETROLEUM PRODUCTS

33. In 1959, excisable sales of gasoline (all grades) increased by 6.4 per cent. and liquified refinery gas (propane) by 14.9 per cent. over 1958 figures. Total duty on gasoline and L.R.G. in 1959 amounted to \$2,763,588. Premium Gasoline constituted 4.3 per cent. by volume of total gasoline sales.

34. The following table shows relative consumption statistics for the two years, 1958 and 1959:—

	1958	1959	Percentage Charge
Gasoline (All Grades) Gallons ...	27,413,622	29,158,260	+ 6.4
Liquified Propane, Barrels ...	3,135,403	3,601,296	+ 14.9

ACCIDENT STATISTICS, 1959

COMPANY	DRILLING AND PRODUCTION			OTHER DEPARTMENTS*			Total Number of Accidents
	Non-Serious	Serious	Fatal	Non-Serious	Serious	Fatal	
T.P.D.	41	5	—	66	6	1	119
Shell	24	5	—	46	12	2	89
Apex	34	4	—	32	6	—	76
P.C.O.L.	1	2	1	2	—	—	6
D.O.L.	40	3	—	—	—	—	43
T.N.A.	3	1	—	18	6	—	28
K.T.O.	9	7	—	5	1	—	22
Texaco	48	24	1	30	17	1	121
TOTAL	200	51	2	199	48	4	504

*Excluding Refineries, Electrical, Machine and General Workshops and Power Stations.

35. The total number of accidents in 1959 was 504 which compares with 525 in 1958. This represents a decrease of 4 per cent. from the previous year.

36. There were six fatalities during the year. A brief description of the fatal accidents follow:—

- (1) A tractor driver was killed when the tractor which he was manoeuvring slipped off an incline and rolled over on its side.
- (2) While painting an electric pole, the painter accidentally touched a live wire and was electrocuted.
- (3) While climbing an electric pole the deceased was struck by a bolt of lightning.
- (4) In an effort to retrieve a dinghy which went adrift the deceased was drowned.
- (5) A rigman was crushed by a racking board which he was attempting to dismantle during rigging down operations.
- (6) While anchoring a barge a winchman was fatally struck on the head by the winch handle when one of the gear teeth broke.

Extensive investigations were conducted by this Department into each of the fatal accidents and appropriate recommendations made for future practice.

CROWN OIL MINING LEASES AND LICENCES

37. There was little leasing activity during the year, only two new leases being issued. The total acreage of crown oil rights under lease decreased from 1,364,584 acres at the 31st December, 1958, to 1,288,822 acres at the 31st December, 1959. Of the total acreage under lease marine licences accounted for 66.8 per cent. The drop in acreage was almost wholly accounted for by areas surrendered by Dominion Oil Ltd. in the northern half of the island.

38. 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 and surrendered. Changes in Company holdings are shown in Table VIII.

TABLE VIII
SUMMARY OF LEASING ACTIVITY DURING 1959

	Number of Lease or Licence	CROWN OIL RIGHTS—ACREAGE					
		Private Surface			Crown Surface		
		A.	R.	P.	A.	R.	P.
Principal Leases at 31st December, 1958 ...	118	103,300	0	31	335,718	0	27
Principal Leases issued in 1959 ...	2	302	1	04	2,821	0	01
Supplemental Leases issued in 1959 ...	—	—	—	—	—	—	—
Areas surrendered in 1959 ...	6	103,602	1	35	338,539	0	28
		4,870	3	29	9,861	2	12
Leases as at 1st January, 1960 ...	114	98,731	2	06	328,677	2	16
Submarine Licences as at 31st December, 1958 ...	6	—	—	—	925,573	0	00
Submarine Licences issued during 1959 ...	—	—	—	—	—	—	—
Submarine Licences surrendered in 1959 ...	(part)	—	—	—	64,160	0	00
Submarine Licences as at 1st January, 1960 ...	6	—	—	—	861,413	0	00
TOTAL ACREAGE LEASED ...		98,731	2	06	1,190,090	2	16

39. No exploration licences are now held or were surrendered during the year.

40. Details of the leasing summary in the preceding paragraph are given in the following tables:—

Crown Oil Mining Leases Granted and Surrendered during 1959

MINING LEASE	No.	CROWN OIL RIGHTS						ACREAGE		
		Private Surface			Crown Surface			Total		
		A.	R.	P.	A.	R.	P.	A.	R.	P.
(A) PRINCIPAL LEASES:										
D.O.L. 10750/59	—	—	—	—	406	2	08	406	2	08
Stekoll 13977/59	—	302	1	04	2,414	1	33	2,716	2	37
	2	302	1	04	2,821	0	1	3,123	1	05
(B) SURRENDERED LEASES:										
D.O.L. Req. No. 8580/58	—	14	1	23	—	2	36	15	1	19
9114/54S	—	—	—	—	75	0	00	75	0	00
8581/58S	—	12	2	34	—	—	—	12	2	34
10656/54S	—	9	2	10	—	—	—	9	2	10
6961/57	—	16	3	00	—	—	—	16	3	00
3379/54	—	19	1	35	90	3	10	110	1	05
3/58	—	146	3	28	—	—	—	146	3	28
6960/57S	—	15	0	00	—	—	—	15	0	00
6765/56	—	151	1	12	10	1	30	161	3	02
13378/55	—	—	—	—	80	0	22	80	0	22
306/57	—	—	—	—	2,125	0	00	2,125	0	00
2627/55	—	4,311	1	15	—	—	—	4,311	1	15
7360/56	—	—	—	—	100	0	00	100	0	00
9015/57	—	—	—	—	4,872	2	07	4,872	2	07
10696/54	—	9	1	33	—	—	—	9	1	33
8357/57	—	—	—	—	173	0	07	173	0	07
8358/57S	—	136	0	22	—	—	—	136	0	22
5104/57	—	—	—	—	9	2	20	9	2	20
5103/57	—	27	3	17	—	—	—	27	3	17
12737/57	—	—	—	—	2,324	0	00	2,324	0	00
		4,870	3	29	9,861	2	12	14,732	2	01
(C) SURRENDERED MARINE LICENCES										
D.O.L. 500/53	—	—	—	—	33,680	0	00	33,680	0	00
4056/52	—	—	—	—	30,480	0	00	30,480	0	00
		—	—	—	64,160	0	00	64,160	0	00

TABLE I X

ANNUAL STATISTICS OF PRODUCTION, DRILLING, EXPORTS AND IMPORTS

ITEM	1959	Unit	1958	Difference 1959/1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION												
1. Crude Oil	40,919	1,000's bbls.	37,355	+ 9.5	34,064	28,929	24,896	23,629	22,346	21,258	20,843	20,632
2. Natural Gasoline	218	do.	231	- 5.6	265	258	274	290	204	204	201	185
3. TOTAL CRUDE OIL AND NATURAL GASOLINE	41,137	do.	37,586	+ 9.4	34,329	29,187	25,170	23,919	22,610	21,462	21,044	20,817
4. From Crown Oil Rights	36,128	do.	32,252	+ 2.0	28,309	23,462	20,119	18,902	17,899	16,782	16,397	16,300
5. From Private Oil Rights	4,791	do.	5,103	- 6.1	5,553	5,725	5,051	5,017	4,711	4,680	4,647	4,517
6. TOTAL IMPORTS	33,805	1,000's bbls.	27,294	+ 23.8	20,155	21,041	18,754	17,071	16,860	17,028	16,347	11,258
7. Imports of Refined Products (Total of Lub. Oil)	18	do.	34	- 32	29	32	35	36	21	32	36	23
8. Imports of Crude Oil for Refining	31,350	do.	25,529	+ 22.8	19,500	20,251	17,780	16,070	16,696	16,722	15,855	11,214
9. Imports of Other Oils for Refining and Blending...	2,437	do.	1,731	- 617	753	939	365	143	274	456	21	
10. TOTAL EXPORTS	57,918	1,000's bbls.	49,490	+ 17.0	50,254	47,697	39,824	36,954	36,220	34,778	34,359	29,150
11. Exports of Crude Oil	3,354	do.	2,100	+ 6.0	3,273	4,002	2,566	3,398	1,999	1,844	1,916	2,194
12. Exports of Refined Products	54,564	do.	47,390	+ 15.1	46,981	43,695	36,958	33,556	34,221	32,934	32,441	26,956
13. Runs to Stills	68,061	1,000's bbls.	60,256	+ 12.9	50,467	44,825	40,147	36,918	37,446	36,041	35,160	29,813
14. Number of Wells started	290	As stated	298	- 2.7	321	263	225	202	223	187	144	149
15. TOTAL NUMBER OF DRILLING	278	As stated	295	- 5.6	314	262	215	202	224	182	140	144
16. Number of Drilling Wells completed as Oil Wells	247	do.	256	- 3.5	282	224	191	189	211	177	131	136
17. Number of Drilling Wells abandoned while drilling, &c.	29	do.	35	- 17.1	22	38	24	13	13	5	9	8
18. TOTAL FOOTAGE DRILLED (All Wells)	1,446,586	Feet	1,365,129	+ 6.0	1,322,483	1,110,745	967,567	911,242	917,894	736,535	664,887	659,565
19. Footage drilled on Crown Oil Rights	1,357,416	do.	1,239,834	+ 9.1	1,071,207	801,716	783,788	684,128	733,401	573,031	521,751	524,374
20. Footage drilled on Private Oil Rights	89,170	do.	131,295	- 32.1	251,276	309,029	203,779	227,114	164,493	158,504	143,136	135,191
21. Average depth of completed Drilling Wells (Item 15)	5,141	Feet	4,604	+ 11.7	4,151	4,237	4,372	4,544	4,026	4,286	4,480	4,436
22. TOTAL NUMBER OF WELLS PRODUCING (Average during year)	3,210	As stated	3,141	+ 2.2	3,048	2,858	2,745	2,674	2,336	2,407	2,280	2,197
23. Number of Wells producing by flowing (Average during year)	951	do.	922	+ 3.1	882	797	718	692	639	594	584	594
24. Number of Wells producing by Artificial Lift (Average during year)	2,259	do.	2,219	+ 1.8	2,166	2,061	2,027	1,982	1,897	1,813	1,696	1,603
25. AVERAGE DAILY PRODUCTION DURING YEAR PER PRODUCING WELL	34.9	Barrels	32.6	+ 7.1	30.6	27.7	24.8	24.2	24.1	24.1	25.1	25.7
26. Average daily production during year per Flowing Well	80.2	Barrels	73.6	+ 9.0	69.0	60.7	55.2	51.0	49.8	47.3	48.5	50.2
27. Average daily production during year per Artificial Lift Well	15.8	do.	15.5	+ 1.9	15.0	14.9	14.1	14.8	15.5	16.6	17.0	16.6
28. TOTAL VALUE OF DOMESTIC EXPORTS	—	000\$	389,933	—	380,622	322,049	278,985	257,178	251,258	223,331	207,584	167,562
29. TOTAL VALUE OF PETROLEUM AND ITS PRODUCTS (In Item 28)	—	do.	304,930	—	311,741	261,792	212,584	193,240	194,359	175,490	161,859	129,183
30. TOTAL VALUE OF LAKE ASPHALT AND ITS PRODUCTS (In Item 28)	—	do.	2,538	—	2,698	2,504	3,044	3,769	4,103	5,981	3,989	2,669
31. TOTAL NATURAL GAS PRODUCED	91,963	M. Cub. Ft.	79,191	+ 16.1	65,418	51,743	40,860	38,494	34,597	31,503	31,725	32,312
32. Used as Fuel	21,876	do.	23,403	- 6.5	21,211	21,536	17,590	18,179	17,677	16,870	16,616	16,771
33. Replaced in formation	12,500	do.	11,187	+ 11.7	9,490	7,406	5,412	3,227	2,532	2,786	2,690	2,674
34. Losses, not collected, vented, &c.	57,587	do.	44,801	+ 28.5	34,717	22,750	17,828	17,089	14,388	11,647	12,519	12,867

TABLE II
Monthly Analysis of Drilling Wells for the year 1959

MONTH	Average No. of Rigs Running	No. of new Wells Started	No. of old Wells Abandoned	No. of Oil Wells Recompleted	DRILLING WELLS COMPLETED DURING 1959										Total No. of completions	MONTHLY FOOTAGE DRILLED			Average Footage drilled per day	Average Footage drilled per day
					Completed as Oil Producers		Completed as Injection Wells		Abandoned while drilling				Left Closed in After Drilling			Crown Oilrights Feet	Private Oilrights Feet	Total Feet		
					No.	Aggregate Depth in Feet	No.	Aggregate Depth in Feet	Dry Holes		Technical Causes		No.	Aggregate Depth in Feet						
									No.	Aggregate Depth in Feet	No.	Aggregate Depth in Feet								
JANUARY ...	29	17	2	26	13	53,624	—	—	3	16,140	—	—	—	—	16	100,708	7,812	108,520	3,501	121
FEBRUARY ...	30	18	3	20	16	82,735	—	—	—	—	—	—	—	—	16	79,794	7,813	87,607	3,129	104
MARCH ...	32	21	2	21	20	105,582	—	—	2	13,986	—	—	—	—	22	105,982	6,013	111,995	3,613	113
APRIL ...	30	32	2	30	24	113,105	—	—	4	23,606	—	—	—	—	28	122,563	14,769	137,332	4,578	153
MAY ...	31	29	1	36	21	95,358	—	—	3	24,494	—	—	—	—	24	126,509	7,372	133,881	4,319	139
JUNE ...	29	22	—	18	19	99,916	—	—	1	10,487	1	1,880	—	—	21	94,444	8,287	102,731	3,424	118
JULY ...	31	26	4	27	24	114,416	—	—	1	9,251	1	4,063	—	—	26	141,518	874	142,392	4,593	146
AUGUST ...	31	24	2	18	20	106,133	—	—	5	47,595	—	—	—	—	25	124,393	—	124,393	4,004	129
SEPTEMBER ...	31	29	2	16	21	98,284	—	—	3	18,166	1	5,000	—	—	25	127,466	—	127,466	4,250	137
OCTOBER ...	30	21	—	19	25	120,753	—	—	—	—	1	660	—	—	26	123,910	8,028	131,938	4,256	142
NOVEMBER ...	30	24	1	16	19	108,518	—	—	3	19,893	—	—	2	11,788	24	96,971	16,000	114,971	3,832	128
DECEMBER ...	29	27	2	19	25	123,792	—	—	—	—	—	—	—	—	25	113,139	10,207	123,346	3,979	137
TOTALS AND AVERAGES 1959 ...	30	290	21	266	—	1,222,216	—	—	25	183,618	4	11,603	2	11,788	278	1,357,416	89,170	1,446,586	3,963	131
TOTALS AND AVERAGES 1958 ...	32	298	62	244	256	1,128,634	1	1,950	32	185,805	3	23,379	1	16,444	295	1,233,834	131,295	1,365,129	3,740	117
DIFFERENCE 1958/1959	-6.3	-2.7	-66.1	+9.0	-3.5	+8.3	—	—	-21.9	-1.2	+33.3	-50.4	-33.3	-36.1	-5.8	+10.0	-32.1	+6.0	+6.5	+12.0

TABLE IIIA
ANALYSIS OF PRODUCTION FOR 1959 BY OPERATING COMPANIES
(All Crude Oil Figures are for Dry Oil)

COMPANY	FLOWING		GAS/AIR LIFT		PUMPING		PLUNGER LIFT		OTHER METHODS		SALT WATER				Average No. of Wells Produced	Daily Average per Producing Well	Total Oil Produced (Barrels)	PRODUCTION FROM CROWN OIL RIGHTS			PRODUCTION FROM PRIVATE OIL RIGHTS		
	Average No. of Wells	Quantity (Barrels)	Average No. of Wells	Quantity (Barrels)	Average No. of Wells	Quantity (Barrels)	Average No. of Wells	Quantity (Barrels)	Average No. of Wells	Quantity (Barrels)	Average No. of Wells (Wet)	Quantity (Barrels)	% of Total Fluid Production	Daily Average per Wet Well				Daily Average per Producing Well	Average No. of Wells	Production (Barrels)	Daily Average per Producing Well	Average No. of Wells	Production (Barrels)
Apex (Trinidad) Oilfields Limited	63	1,174,544	44	250,673	266	1,256,820	29	244,768	—	—	159	727,502	—	12.5	402	20.0	2,926,805	27.5	154	1,533,711	15.4	248	1,393,094
Jones Petroleum Company, Limited	1	135	—	—	—	193	—	—	—	1,636	—	—	—	1	5.4	1,964	—	—	—	5.4	1	1,964	—
Dominion Oil Limited	1	46,594	—	—	—	—	—	—	—	—	—	186	—	1	127.7	46,594	127.7	1	46,594	—	—	—	—
Kern Trinidad Oilfields Limited	101	902,170	—	—	106	244,639	—	—	—	—	23	147,454	—	17.6	207	15.2	1,146,809	19.5	61	434,725	13.4	146	712,084
Premier Consolidated Oilfield Limited	6	59,449	—	—	167	314,896	—	—	6	847	50	305,834	—	16.8	179	5.7	375,192	4.7	61	104,941	6.3	118	270,251
Shell Trinidad Limited	178	4,766,839	59	570,027	309	2,094,958	—	—	5	3,695	264	1,884,868	—	19.6	551	37.0	7,435,519	41.5	429	6,503,771	20.9	122	931,748
Stekoll Panam, Petrolera	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad Central Oilfields	29	979,923	—	—	119	488,929	—	—	—	20	80	329,945	—	11.3	148	27.2	1,468,872	27.2	148	1,468,872	—	—	—
Trinidad Northern Areas	28	3,766,085	—	—	1	6,338	—	—	—	—	4	76,978	—	52.7	29	356.4	3,772,423	356.4	29	3,792,423	—	—	—
Texaco Trinidad Incorporated	375	12,684,819	92	1,850,354	658	3,152,784	—	—	—	560	692	3,028,737	—	12.0	1,125	43.1	17,688,517	46.9	953	16,316,009	21.9	172	1,372,508
Trinidad Petroleum Development Company Limited	171	3,472,194	126	1,257,127	36	178,254	235	1,148,516	—	—	134	1,384,780	—	28.3	568	29.2	6,056,091	29.9	545	5,947,179	13.0	23	108,912
TOTAL	953	27,852,752	321	3,928,181	1,662	7,737,811	264	1,390,284	11	6,758	1,406	7,886,284	16.2	15.4	3,211	34.9	40,918,786	41.6	2,381	36,128,225	15.8	830	4,790,561

Natural Gasoline Production, 1959

COMPANY	CROWN OIL RIGHTS	PRIVATE OIL RIGHTS	TOTAL BARRELS
Apex (Trinidad) Oilfields Limited	39,343	57,844	97,187
Texaco Trinidad Incorporated	—	—	—
Trinidad Petroleum Development Company Limited	119,021	1,997	121,018

TABLE III

Monthly Production for the year ending 31st December, 1959

MONTH	FLOWING				GAS/AIR LIFT				PUMPING				PLUNGER LIFT				OTHER METHODS				SALT WATER				No. of Wells Produced	No. of Idle Wells	No. of Wells Abandoned (Total)	No. of Wells Drilling at end of month	Total No. of Wells Started	Daily Average per Producing Well Bbls.	Total Oil Produced Bbls.	BREAKDOWN OF TOTAL PRODUCTION						
	No. of Wells	Quantity Bbls.	% of Total Oil	Daily Average per Well Bbls.	No. of Wells	Quantity Bbls.	% of Total Oil	Daily Average per Well Bbls.	No. of Wells	Quantity Bbls.	% of Total Oil	Daily Average per Well Bbls.	No. of Wells	Quantity Bbls.	% of Total Oil	Daily Average per Well Bbls.	No. of Wells	Quantity Bbls.	% of Total Fluid Produced	Daily Average per Wet Well	No. of Wells	Quantity Bbls.	% of Total Fluid Produced	Daily Average per Wet Well								Crown			Private			
																																Daily Average per Prod. Well	No. of Wells	Quantity Produced Bbls.	Daily Average per Prod. Well	No. of Wells	Quantity Produced Bbls.	
January 31	940	2,279,516	68.1	78.2	291	289,163	8.6	32.1	1,677	672,127	20.1	12.9	258	106,910	3.2	13.4	10	852	—	2.7	1,379	647,216	16.2	15.1	3,176	2,063	1,584	29	6,852	34.0	3,348,568	40.5	2,337	2,933,561	16.0	839	415,007	
February 28	942	2,108,351	68.6	79.9	293	268,247	8.7	32.7	1,642	602,953	19.6	13.1	254	95,268	3.1	13.4	16	580	—	1.3	1,341	565,400	15.5	15.1	3,147	2,105	1,587	31	6,870	34.9	3,075,399	41.6	2,313	2,690,206	16.5	834	385,193	
March 31	955	2,311,991	68.2	78.1	293	290,759	8.8	32.7	1,650	665,046	19.6	13.0	260	116,611	3.4	14.5	19	825	—	1.4	1,374	638,319	15.8	15.0	3,177	2,093	1,591	30	6,891	34.4	3,391,232	40.8	2,332	2,951,601	16.8	845	439,631	
April 30	942	2,232,672	68.2	79.0	301	298,810	8.9	32.1	1,652	635,571	19.4	12.8	263	114,292	3.5	14.5	21	663	—	1.1	1,371	626,498	16.1	15.2	3,179	2,112	1,597	35	6,923	34.3	3,273,008	40.8	2,335	2,860,334	16.3	844	412,674	
May 31	947	2,302,488	68.1	78.4	305	300,345	8.9	31.8	1,646	656,879	19.4	12.9	264	120,527	3.6	14.7	8	262	—	1.1	1,424	695,968	17.1	15.8	3,170	2,145	1,600	37	6,952	34.4	3,380,501	40.9	2,342	2,967,092	16.1	828	413,409	
June 30	933	2,297,551	68.0	82.1	314	314,064	9.3	33.3	1,665	653,318	19.3	13.1	264	114,819	3.4	14.5	9	406	—	1.5	1,372	638,353	15.9	15.5	3,185	2,149	1,602	38	6,974	35.4	3,380,158	42.4	2,353	2,991,890	15.6	832	388,268	
Production Total 1st January to 30th June	—	13,532,569	68.2	—	—	1,758,388	8.9	—	—	3,885,894	19.6	—	—	668,427	3.3	—	—	3,588	0.0	—	—	3,811,753	16.1	—	—	—	—	—	—	—	—	19,848,866	—	—	17,394,684	—	—	2,454,182
July 31	956	2,354,455	67.5	79.4	321	332,313	9.5	33.4	1,665	680,611	19.5	13.2	270	118,060	3.5	14.1	9	295	—	1.1	1,393	680,712	16.3	15.8	3,221	2,133	1,608	38	7,000	34.9	3,485,734	41.7	2,392	3,090,458	15.4	829	395,276	
August 31	956	2,357,243	67.5	80.6	339	346,965	9.8	33.0	1,650	680,010	19.2	13.3	269	123,837	3.5	14.9	10	772	0.0	2.5	1,377	655,739	15.6	15.4	3,224	2,148	1,615	37	7,024	35.4	3,538,827	42.2	2,403	3,144,592	15.5	821	394,235	
September 30	954	2,324,065	67.6	81.2	342	342,627	10.0	33.4	1,677	647,983	18.8	12.9	274	124,280	3.6	15.1	7	505	0.0	2.4	1,414	668,340	16.3	15.8	3,254	2,138	1,621	40	7,053	35.2	3,439,460	42.2	2,424	3,065,827	15.0	830	373,633	
October 31	963	2,412,238	68.1	80.8	350	357,542	10.1	33.0	1,672	648,596	18.3	12.5	261	122,323	3.5	15.1	13	598	0.0	1.5	1,469	704,914	16.6	15.5	3,259	2,158	1,622	35	7,074	35.1	3,541,295	41.7	2,421	3,130,806	15.8	838	410,489	
November 30	961	2,375,666	68.4	82.4	345	350,240	10.1	33.8	1,687	629,810	18.1	12.4	261	118,830	3.4	15.1	7	575	0.0	2.7	1,489	677,452	16.3	15.2	3,261	2,175	1,626	36	7,098	35.5	3,475,121	42.3	2,435	3,091,341	15.5	826	383,780	
December 31	969	2,466,516	68.7	82.1	353	440,106	12.3	40.2	1,661	664,907	15.7	11.0	265	117,527	3.3	14.3	13	427	0.0	1.1	1,476	687,374	16.1	15.0	3,261	2,199	1,627	38	7,125	35.5	3,589,483	42.2	2,452	3,210,517	15.1	809	378,966	
Production Total 1st July to 31st December	—	14,320,183	68.0	—	—	2,169,793	10.3	—	—	3,851,917	18.3	—	—	724,857	3.4	—	—	3,170	0.0	—	—	4,074,531	16.2	—	—	—	—	—	—	—	—	21,069,920	—	—	16,733,541	—	—	2,336,379
Year's Production Total	—	27,852,752	—	—	—	3,928,181	—	—	—	7,737,811	—	—	—	1,393,284	—	—	—	6,758	—	—	—	7,886,284	—	—	—	—	—	—	—	—	—	40,918,786	—	—	36,128,225	—	—	4,790,561
Daily Averages	—	76,309	—	80.2	—	10,762	—	33.5	—	21,199	—	12.8	—	3,817	—	14.5	—	19	—	1.7	—	21,606	—	15.4	—	—	—	—	—	—	34.9	112,106	41.6	—	98,981	15.8	—	13,125
Average during year...	951	—	68.1	—	321	—	9.6	—	1,662	—	18.9	—	264	—	3.4	—	12	—	0.0	—	1,406	—	16.1	—	3,210	—	—	—	—	—	—	—	—	2,378	—	—	831	—

TABLE IV
PRODUCTION AND DISPOSAL OF NATURAL GAS
(All figures of gas production in thousands of cubic feet)

	Crude Oil Production (Barrels)	Average G.O.R. (c.ft./bbl.)	Natural Gas Production	NATURAL GAS DISPOSAL									NATURAL GAS RECOVERY		Natural Gasoline Produced (Bbbs.)	Inter-Oil Company Sales†
				Sales to Other Companies *	Replaced in Formation	Converted to C.H.P.S.	USED AS FUEL		Vented as Surplus	Pipeline Losses and unaccounted for	Not Collected	Natural Gas treated	Average Plant Recovery I.G./ M.C.F.			
							In Fields	At Refineries								
January	3,348,568	2,134	7,147,152	242,065	890,702	19,401	678,495	1,297,135	2,175,165	197,122	1,647,067	774,850	0.83	18,477	587,092	
February	3,075,399	2,141	6,585,658	220,417	838,558	17,542	576,170	1,155,583	1,674,286	499,564	1,603,538	692,395	0.84	16,707	530,634	
March	3,391,232	2,208	7,487,546	241,843	1,003,710	20,234	645,120	1,278,178	2,223,960	280,883	1,793,618	818,270	0.82	19,270	539,618	
April	3,273,008	2,250	7,363,868	222,359	1,012,538	20,153	645,047	1,179,418	2,318,779	239,751	1,725,723	825,140	0.81	19,193	586,015	
May	3,380,501	2,266	7,660,228	192,959	1,064,369	20,125	717,720	1,196,457	2,398,437	231,637	1,838,524	829,150	0.81	19,157	491,309	
June	3,380,158	2,228	7,531,609	186,934	994,503	18,890	606,235	1,109,797	2,740,925	204,164	1,670,161	821,330	0.77	17,990	446,383	
1st Half-Year Totals ...	19,848,866	2,205	43,776,061	1,306,577	5,804,480	116,345	3,868,787	7,216,568	13,531,552	1,653,121	10,278,631	4,761,135	0.81	110,804	3,111,051	
July	3,485,734	2,258	7,872,354	253,935	1,120,504	19,954	666,561	1,163,729	2,782,147	101,044	1,764,480	851,975	0.78	19,004	579,974	
August	3,538,827	2,254	7,973,507	289,931	1,208,466	17,719	666,026	1,193,185	2,761,673	129,888	1,706,619	757,360	0.78	16,875	591,427	
September	3,439,469	2,250	7,737,854	308,304	1,146,221	18,783	684,529	1,113,396	2,629,520	278,604	1,558,497	819,195	0.76	17,839	623,096	
October	3,541,295	2,281	8,077,276	355,931	1,160,676	18,494	695,980	1,040,932	2,890,412	292,098	1,622,753	824,255	0.75	17,613	690,962	
November	3,475,121	2,314	8,042,465	390,466	1,048,470	18,512	631,471	1,085,463	2,981,530	305,084	1,581,469	807,960	0.76	17,630	694,800	
December	3,589,483	2,363	8,483,749	424,462	1,011,108	19,310	657,365	1,192,316	3,364,089	309,416	1,505,683	822,145	0.78	18,390	709,665	
2nd Half-Year Totals ...	21,069,920	2,287	48,187,205	2,023,029	6,695,445	112,772	4,001,932	6,789,021	17,409,371	1,416,134	9,739,501	4,442,890	0.77	107,401	3,889,864	
YEAR'S TOTALS	40,918,786	2,247	91,963,266	3,329,606	12,499,925	229,117	7,870,719	14,005,589	30,940,923	3,069,255	20,018,132	9,644,025	0.79	218,205	7,000,915	
PERCENTAGE DISPOSAL FOR YEAR			100.0%	3.6%	13.6%	0.3%	8.6%	15.2%	33.6%	3.3%	21.8%					

21,876,308

*Sales to T.T.E.C., Trinidad Cement Limited and Trinidad Oilfields Service Limited, for use as fuel; plus sales to Federation Chemicals Limited for use partly as a raw material in the manufacture of fertilizer and partly as fuel.

†These sales are included under the several heads of Natural Gas Disposal.

TABLE V

RETURN OF PRODUCTION STOCKS AND DISPOSAL OF PETROLEUM DURING THE YEAR ENDED 1959

(All figures in barrels)

	Crude and Process Oil	REFINED PRODUCTS												Feed or Blending Stocks for Transfer	TOTAL (All Products)
		AVIATION SPIRIT		Motor Spirit	White Spirit	Burning Oil	Vapourising Oil	Gas and Diesel Oil	Fuel Oil (All Grades)	Lub. Oil and Greases	Bitumen	Other Finished Products	Liquified Petroleum Gas		
		100 Octane	Other Grades												
1. OPENING STOCKS 1ST JANUARY, 1959	2,164,545	41,372	183,790	1,009,875	10,463	95,205	125,469	1,131,170	1,177,292	474	25,050	76,939	286	335,601	4,212,956
2. CRUDE OIL PRODUCTION INCLUDING CASING HEAD PETROLEUM SPIRIT	41,136,991	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. IMPORTS:															
Venezuela	24,129,105	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	1,521,824	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Countries	5,699,624	—	—	561,704	774	—	—	1,610,930	101,942	—	—	17,731	—	161,822	2,454,903
TOTAL IMPORTS	31,350,553	—	—	561,704	774	—	—	1,610,930	101,942	—	—	17,731	—	161,822	2,454,903
4. RUN TO STILL	68,061,131	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. PRODUCTION OBTAINED	—	450,266	3,442,632	11,032,567	61,252	1,143,635	1,639,418	12,956,861	35,255,694	2,041	255,777	1,504,629	34,554	—	67,585,535
6. CONSUMPTION:															
Trinidad and Tobago	47,348	257	34	828,984	762	315,487	—	362,856	468,577	706	2,756	595,511	21,145	6,785	2,603,860
Bunkers	—	55,766	104,826	—	—	313	—	3,134,954	10,156,738	—	—	—	—	—	13,453,597
Refinery Fuel	—	—	—	—	—	—	—	—	10,741	—	—	—	—	—	10,741
TOTAL CONSUMPTION	47,348	57,023	104,860	828,984	762	315,800	—	3,497,810	10,636,056	706	2,756	595,511	21,145	6,785	16,068,198
7. SHIPMENTS:															
Sterling Area	—	57,322	2,864,627	5,742,392	—	305,593	1,329,671	4,063,824	8,943,148	1,183	189,734	228,770	—	—	23,726,264
North America	3,353,666	—	—	3,587,049	—	—	—	835,940	8,021,606	—	—	368,668	—	—	12,813,263
Other American Countries	—	299,746	142,206	557,609	—	333,503	—	940,542	1,237,943	—	1,570	6,316	—	—	3,519,435
Western Hemisphere	—	14,292	6,973	68,372	—	6,858	—	48,452	335,664	—	12,274	62,665	—	—	555,550
O.E.E. Countries	—	14,990	431,886	988,584	66,992	138,482	329,419	4,204,317	5,683,188	89	38,069	41,108	—	—	11,937,124
Rest of the World	—	6,098	4,453	9,131	—	44,191	—	991,041	943,595	—	—	—	13,619	—	2,012,128
TOTAL SHIPMENT	3,353,666	392,448	3,450,145	10,953,137	66,992	828,627	1,659,090	11,084,116	25,165,144	1,272	241,647	707,527	13,619	—	54,563,764
8. CLOSING STOCKS 31ST DECEMBER, 1959	2,334,906	42,167	71,417	822,025	4,735	94,413	105,797	1,117,035	733,728	537	36,394	296,261	76	296,847	3,621,432

Imports of Tucupita Fuel Oil for Transshipment amount to 2,066,733 barrels and are not included in the above return. These figures do not include movements of petroleum from the distributing companies.

TABLE VI

STATEMENT SHOWING CONTRIBUTIONS BY THE OIL INDUSTRY TO TERRITORIAL REVENUE AND GOVERNMENT OPERATED SERVICES, 1959

(Marketing Companies not included)

Item	Head or Sub-Head	1959	% Difference 1959/58	1958	1957	1956	1955	1954	1953	1952	1951	1950
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
CROWN ROYALTIES, TAXATION, ETC.												
1	Customs	2,024,876	— 14.0	2,354,974	2,267,204	1,371,241	1,097,527	1,270,440	1,191,346	1,204,736	697,095	974,118
2	Excise Duty on Petroleum Spirit	124,046	— 32.3	183,331	129,093	122,243	124,304	136,257	141,361	132,817	90,291	115,637
3	Lands and Buildings Taxes	250,461	— 0.1	250,815	209,973	203,086	200,413	199,263	228,180	113,301	100,526	101,203
4	Vehicles, Licences and Registration	148,195	— 13.2	170,721	130,267	134,227	137,441	85,439	118,741	107,868	90,885	107,647
5	Taxes on Income	29,618,807	— 19.6	36,818,288	27,666,940	19,630,291	18,827,104	14,692,510	15,091,972	17,091,094	13,715,292	8,704,846
6	Reimbursements—Petroleum Department	53,625	— 34.6	82,042	11,525	50,025	50,546	40,613	32,644	27,750	30,287	32,151
7	Earnings of Government Departments	4,068	— 80.7	21,077	50,726	61,466	33,013	11,470	9,436	17,784	10,804	10,504
8	Sundries	96,587	+ 21.7	79,365	61,241	38,857	32,456	30,797	39,592	43,365	28,177	31,917
9	Royalty on Oil	16,236,712	+ 0.8	16,101,883	13,945,903	10,227,905	8,706,169	8,231,840	7,011,584	6,592,399	6,508,520	5,823,226
10	Royalty on Gas	135,602	+ 21.3	111,748	111,394	94,016	91,096	72,417	68,255	85,031	99,189	81,233
11	Forests—Sale of Timber	132,476	— 3.9	137,835	157,505	156,295	140,206	138,594	68,174	61,174	42,594	68,899
12	Exploration Licences	—	—	—	1,273	5,549	3,437	5,687	4,356	14,192	3,366	9,797
13	Harbour Dues on Crude Oil and Products	1,509,693	+ 8.7	1,389,087	1,016,102	1,136,310	953,586	872,334	809,507	753,598	732,802	587,516
14	SUB-TOTALS—Items 1-13	50,335,148	— 12.8	57,701,166	45,759,146	33,231,511	30,397,298	25,787,661	25,298,148	26,244,636	22,149,828	16,648,694
VARIOUS SERVICES												
15	Wharves and Harbours (Rentals, &c.)	173,612	— 12.9	199,263	93,102	74,846	58,347	92,493	82,279	74,499	37,029	27,182
16	Post Office	62,611	+ 18.1	53,011	58,509	48,496	52,490	47,559	45,613	50,154	43,140	30,529
17	Rent of Government Property	11,782	+ 5.8	11,141	17,774	15,287	16,811	12,175	10,320	10,732	9,523	5,588
18	Government Railway and Telegraph	131,335	+ 1.5	129,403	140,469	112,900	104,698	125,726	119,097	165,312	151,930	137,501
19	Fees and Payments for Specific Services	130,725	+ 238.4	38,631	44,988	47,215	23,742	29,578	35,258	29,609	22,600	26,146
20	SUB-TOTALS—Items 15-19	510,065	+ 18.2	431,449	354,842	298,744	256,088	305,531	292,567	330,306	264,222	226,946
21	GENERAL TOTAL	50,845,213	— 12.5	58,132,615	46,113,988	33,530,255	30,653,386	26,093,192	25,590,715	26,574,942	22,414,050	16,875,640
Summary												
	A—Total Revenue of Territory and Government Operated Services	147,917,385	+ 5.4	139,934,076	110,954,729	96,931,614	89,991,040	80,154,136	74,535,864	73,013,672	65,215,814	56,038,019
	B—Percentage of 'A' contributed by the Oil Industry	34.4	— 17.1	41.5	41.5	34.6	34.1	32.6	34.3	36.4	34.4	30.1
	C—Percentage of 'A' less Items 13, 15 and 18 contributed by the Oil Industry	35.8	— 17.5	43.4	42.0	36.1	36.0	34.0	36.1	38.3	36.3	31.9
	D—Excise collected on Gasoline and Propane (including duty shown under Item 2 above)	2,763,588	— 44.3	4,959,941	2,381,018	2,186,203	1,985,082	1,891,322	1,714,221	1,560,225	1,454,567	1,367,860

TABLE VII

STATEMENT SHOWING THE AMOUNT OF MONEY DISBURSED IN THE TERRITORY AND ON OVERSEAS PURCHASES OF MATERIALS BY THE OIL INDUSTRY, 1959

Item	Head and Sub-Head	1959	% Difference 1959/58	1958	1957	1956	1955	1954	1953	1952	1951	1950
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
	MONEYS EARNED AND PAYABLE IN THE TERRITORY											
1	Total contribution to Government Revenues (Item 21, Table VI)	50,845,213	— 12.5	58,132,165	46,113,988	33,530,255	30,653,386	26,093,192	25,590,715	26,574,942	22,414,050	16,875,640
2	Payments to Employees*	42,147,355	+ 1.7	41,450,305	37,552,026	35,700,911	34,557,926	31,040,008	29,164,141	24,743,598	20,918,670	18,839,945
3	Payments to Contractors*	33,666,818	+ 40.9	23,898,821	17,069,310	13,042,638	10,643,977	9,465,908	7,439,632	7,604,548	7,527,758	6,125,164
4	Local Purchases of Materials	14,589,697	+ 61.4	9,040,923	9,210,891	8,116,298	7,217,873	7,026,657	5,862,292	5,662,114	4,837,764	3,946,065
5	All other Local Expenditure (Rents, Private Royalties, &c.)	19,204,677	+ 47.2	13,049,813	20,655,539	15,470,566	13,819,910	13,220,262	11,527,727	13,095,125	10,361,590	8,456,079
6	SUB-TOTAL	160,453,760	+ 10.2	145,572,477	130,601,755	105,860,668	96,893,072	86,846,027	79,584,507	77,680,327	66,059,832	54,242,893
	OVERSEAS PURCHASES OF MATERIALS (C.I.F. VALUATION)											
7	Importations from (a) United Kingdom	37,577,311	+ 3.7	36,231,825	37,197,160	23,994,740	24,760,317	23,833,618	23,439,951	22,888,622	17,208,825	14,690,902
	(b) Canada	—	—	861,020	1,065,175	1,275,812	930,113	1,143,337	1,065,818	927,095	944,464	724,216
	(c) United States of America	7,096,192	+ 14.0	6,201,404	5,859,427	5,394,161	5,184,603	3,651,034	4,329,034	4,329,858	3,401,644	5,469,200
	(d) Other Sources	1,317,423	— 79.4	6,383,844	3,090,064	2,008,580	425,181	1,594,177	2,032,287	1,432,977	773,214	947,512
8	SUB-TOTAL	45,990,926	— 7.4	49,678,093	47,211,826	32,673,293	31,300,214	30,222,166	30,867,914	31,465,871	22,327,947	21,831,730
9	GRAND TOTAL	205,308,463	+ 5.2	195,250,570	177,813,581	138,533,961	128,193,286	117,068,193	110,452,421	109,146,198	88,387,779	76,074,623

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

TABLE VIII

LIST OF OIL OPERATORS IN TRINIDAD, SHOWING THE AREA HELD UNDER MINING LEASE AND EXPLORATION LICENCES DURING 1959

Item	COMPANIES	LANDS HELD UNDER EXPLORATION LICENCE			OILRIGHTS HELD UNDER REGISTERED MINING LEASE OR MARINE LICENCE																	
		Crown Surface 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	APEX TRINIDAD OILFIELDS	—	—	—	58,050	2	21	16,116	1	03	55,632	0	00	155,690	0	00	292,622	0	00	578,090	3	24
	Holdings as at 1.1.59 ...	—	—	—	2,825	2	29	307	2	00	—	—	—	—	—	—	—	—	—	3,133	0	29
	Holdings acquired during 1959 ...	—	—	—	9,861	2	12	4,870	3	29	8,808	0	00	2,160	0	00	62,000	0	00	87,700	2	01
	Holdings surrendered during 1959 ...	—	—	—	7,210	2	04	3,428	0	36	—	—	—	—	—	—	—	—	—	10,638	3	00
	Holdings assigned to Stekoll during 1959 ...	—	—	—	43,784	0	34	8,124	2	18	46,824	0	00	153,530	0	00	230,622	0	00	482,884	3	12
2	DOMINION OIL LIMITED	—	—	—	31,324	2	10	22,313	2	00	10,495	0	25	—	—	—	—	—	—	64,133	0	35
	Holdings as at 1.1.59 ...	—	—	—	—	—	—	—	—	—	54	0	25	—	—	—	—	—	—	54	0	25
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	3	0	32	—	—	—	—	—	—	3	0	32
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings as at 31.12.59 ...	—	—	—	31,324	2	10	22,313	2	00	10,546	0	13	—	—	—	—	—	—	64,184	0	28
3	JADE PETROLEUM COMPANY	—	—	—	—	—	—	18	0	12	—	—	—	—	—	—	—	—	—	18	0	12
	Holdings as at 1.1.59 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings as at 31.12.59 ...	—	—	—	—	—	—	18	0	12	—	—	—	—	—	—	—	—	—	18	0	12
4	KERN TRINIDAD OILFIELDS LIMITED	—	—	—	347	2	23	619	1	06	8,748	2	00	5,760	0	00	—	—	—	15,475	1	29
	Holdings as at 1.1.59 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings as at 31.12.59 ...	—	—	—	347	2	23	619	1	06	8,748	2	00	5,760	0	00	—	—	—	15,475	1	29
5	PREMIER CONSOLIDATED OILFIELDS LIMITED	—	—	—	10,718	2	09	2,640	1	13	6,495	2	23	—	—	—	—	—	—	19,854	2	05
	Holdings as at 1.1.59 ...	—	—	—	—	—	—	—	—	—	13	0	06	—	—	—	—	—	—	13	0	06
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings as at 31.12.59 ...	—	—	—	10,718	2	09	2,640	1	13	6,508	2	29	—	—	—	—	—	—	19,867	2	11
6	TIMOTHY ROODAL	—	—	—	—	—	—	9	2	12	—	—	—	—	—	—	—	—	—	9	2	12
	Holdings as at 1.1.59 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings as at 31.12.59 ...	—	—	—	—	—	—	9	2	12	—	—	—	—	—	—	—	—	—	9	2	12

TABLE VIII—CONTINUED

LIST OF OIL OPERATORS IN TRINIDAD, SHOWING THE AREA HELD UNDER MINING LEASE AND EXPLORATION LICENCES DURING 1959—Continued

Item	COMPANIES	LANDS HELD UNDER EXPLORATION LICENCE			OILRIGHTS HELD UNDER REGISTERED MINING LEASE OR MARINE LICENCE																	
		Crown Surface 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.
7	TRINIDAD CENTRAL OILFIELDS LIMITED																					
	Holdings as at 1.1.59 ...	—	—	—	6,996	2	31	—	—	—	35	2	00	—	—	—	—	—	—	7,032	0	31
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings as at 31.12.59 ...	—	—	—	6,996	2	31	—	—	—	35	2	00	—	—	—	—	—	7,032	0	31	
8	TRINIDAD NORTHERN AREAS																					
	Holdings as at 1.1.59 ...	—	—	—	32	3	33	—	—	—	—	—	—	147,723	0	00	83,434	0	00	231,189	3	33
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings as at 31.12.59 ...	—	—	—	32	3	33	—	—	—	—	—	—	147,723	0	00	83,434	0	00	231,189	3	33
9	TEXACO TRINIDAD INCORPORATED																					
	Holdings as at 1.1.59 ...	—	—	—	124,949	0	03	33,431	1	14	*9,126	0	32	47,780	1	18	15,344	0	00	221,504	2	35
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	796	3	26	—	—	—	—	—	—	796	3	26
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	21	3	30	—	—	—	—	—	—	21	3	30
	Holdings as at 31.12.59 ...	—	—	—	124,949	0	03	33,431	1	14	*9,126	0	32	48,555	1	14	15,344	0	00	222,279	2	31
10	TRINIDAD PETROLEUM DEVELOPMENT COMPANY LIMITED																					
	Holdings as at 1.1.59 ...	—	—	—	26,743	2	18	10,781	2	25	21,086	2	34	134,000	0	00	91,000	0	00	283,611	3	37
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	87	3	04	—	—	—	—	—	—	87	3	04
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	3	0	32	—	—	—	—	—	—	—	—	—	3	0	32
	Holdings as at 31.12.59 ...	—	—	—	26,743	2	18	10,778	1	33	21,174	1	38	134,000	0	00	91,000	0	00	283,696	2	09
11	SHELL TRINIDAD LIMITED																					
	Holdings as at 1.1.59 ...	—	—	—	76,569	3	11	17,386	1	34½	†549	3	18	10,503	2	29	—	—	—	104,459	3	34½
	Holdings acquired during 1959 ...	—	—	—	—	—	—	—	—	—	22	1	28	—	—	—	—	—	—	22	1	28
	Holdings surrendered during 1959 ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holdings as at 31.12.59 ...	—	—	—	76,569	3	11	17,386	1	34½	†549	3	18	10,526	0	17	—	—	—	104,482	1	22
	GRAND TOTAL ...																					

TABLE IX

IMPORTANT EXPLORATION OR OUTSTEP WELLS AND DEEP EXPLOITATION WELLS DRILLED DURING 1959

Company	Field and Well No.	Total Depth (Feet)	Remarks	Map Reference Appendix I
Apex	Cedros—C3/651	14,850	Temporarily abandoned	E—1
Dominion Oil Limited	South Boundary No. 1	10,487	Abandoned	B—4
	East Domoil No. 1	9,475	Abandoned	E—6
	South Domoil No. 1	11,387	Successful new field wild cat completed in the lower Manzanilla Sands	B—6
	South Domoil No. 2	9,957	Successful producer from lower Manzanilla Sands	B—6
Kern Trinidad Oilfields	Guapo F—60A	4,949	Successful deeper pool test down to Nariva Sands	E—3
	F—58	4,961	Planned to test Nariva Sands. Only thin sands present	
	M—11	4,633	Producing from higher sands	E—3
	M—12	4,562	Successful offshore N.W. outstep. Producing from Nariva Sands...	E—3
Shell	Ortoire OL—2	11,933	Suspended because of drilling difficulties	E—3
	do. FO—1	10,705	Abandoned	M—3
	Balata West BW—6	3,164	Abandoned	K—3
	do. BW—7	9,251	Abandoned	L—4
	do. BW—7A	9,681	Abandoned	L—4
	Catshill CO—86	10,709	Objective abandoned, plugged and suspended	L—4
Texaco	do. CO—87	10,283	Objective abandoned, upper sand tested gas closed in	L—3
	Palo Seco PS—128	9,374	Objective lower Cruse not tested due to drilling difficulties—Well completed as producer in higher sands	F—1
	do. RD—119	9,845	Successful producer from the Upper and Middle Cruse Sands, N.W. extension well of the Palo Seco Field	F—2
	Brighton AS—84	8,532	Successful well establishing extension of Nariva Sands N.E. of Brighton Harbour reserve	F—4
	do. ABM—13	6,050	Successful well establishing extension of Nariva Sands approximately 4,000 feet S.E. of ABM—1	F—4
	do. ABM—14	5,500	Successful well establishing extension of Nariva Sands approximately 4,000 feet East of ABM—1	F—4
	do. ABM—15	6,000	Successful well establishing extension of Nariva Sands approximately N.E. of ABM—1	F—4
	Forest Reserve 1118	8,836	Outstep testing to test formation in S.E. corner of Forest Reserve Field. Successful in Forest Sands	G—2
	Guayaguayare G—287	6,186	Planned to test lower Cretaceous—abandoned due to drilling difficulties	
	do. G—305	6,646	—Upper Cretaceous dry—abandoned	M—2
			Successful test of Gros Morne and Lower Cruse Sands on South flank of Lizard Uplift	N—3
Trinidad Northern Areas	Soldado S—16	5,887	Successful Outstep 7,200 feet West of Sol. 1	B—2
	do. S—18	5,819	Successful Outstep 12,000 feet North of Sol. 1	B—3
	do. S—20	6,898	Successful Outstep 4,800 feet South of Sol. 1	B—2
	do. S—22	5,827	Successful Outstep 18,000 feet North of Sol. 1	B—3
	do. S—25	8,587	Successful Outstep 12,000 feet East South-East of Sol. 1	B—2
	do. S—30	6,584	Successful Outstep 12,000 feet East North-East of Sol. 1	B—2
Trinidad Petroleum Development Limited	Los Bajos LB—60	11,147	Deeper pool test aimed at testing the Herrera Sands. Encountered drilling difficulties short of objective. Well was completed in an upper sand...	F—2
	do. LB—67	12,413	Replacement well for LB—60, successfully reached the Herrera Sands. Sand development was better than expected, but wet	F—2
	Quarry Qu—205	11,961	Deeper pool test, encountered drilling difficulties short of objective. Well was completed in an upper sand	G—1
	North Marine NM—1	9,010	Successful new field wildcat completed in the Morne L'Enfer Sand	C—4

TABLE X

SUMMARY OF CROWN (ROYALTY) CRUDE ASSESSED WITH PRICES AND ANALYSES
 (For half-yearly assessment periods ending 30th June and 31st December, 1959)—1 barrel=34.9726 I.G.

COMPANY	Net Royalty on Production	ROYALTY			SUB-DIVISION OF (ROYALTY) CRUDE INTO PRODUCTS AS PER R.L.E.—1 ANALYSIS										
		10% Assessed	Value	Average Price	LIGHT FRACTIONS			GAS OIL					FUEL OIL		
					Quantity	Percentage	Tetra Ethyl lead to blend to 70/72 Oct. Gasolene	53-57 D.I.	48-52 D.I.	43-47 D.I.	No. 2 Fuel	Total Gas Oils	Percentage	Quantity	Percentage
Bbls.	Bbls.	\$ c.	\$ c.	Bbls.	Percentage	Millilitres	Bbls.	Bbls.	Bbls.	Bbls.	Bbls.	Percentage	Bbls.	Percentage	
Apex (Trinidad) Oilfields Limited ...	764,069	76,407	334,986 85	4.38	9,528	12.5	113,797	—	—	—	24,396	24,396	31.9	42,483	55.6
Dominion Oil Limited ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kern Trinidad Oilfields Limited ...	224,507	22,451	74,736 96	3.33	1,538	6.8	28,745	268	—	—	—	268	1.2	20,645	92.0
Premier Consolidated Oilfields Limited ...	52,536	5,254	21,923 38	4.17	636	12.1	8,626	—	—	255	1,058	1,313	25.0	3,305	62.9
Estate of Timothy Roodal ...	594	59	242 26	4.11	2	2.5	—	—	—	—	18	18	30.6	39	66.9
Shell Trinidad Limited ...	3,175,644	317,563	1,463,160 14	4.61	63,290	19.9	2,155,332	58,025	8,342	33,020	332	99,719	31.4	154,554	48.7
Trinidad Central Oilfields Limited ...	749,097	74,910	342,422 00	4.57	22,745	30.4	816,983	—	3,413	—	13,500	16,913	22.6	35,252	47.0
Trinidad Northern Areas Limited ...	1,645,127	164,513	762,564 58	4.64	41,573	25.3	1,792,652	—	46,532	—	—	46,532	28.3	76,408	46.4
Trinidad Petroleum Development Company Limited ...	2,936,324	293,532	1,315,540 67	4.48	52,925	18.0	1,043,694	—	—	25,520	62,747	88,267	30.1	152,440	51.9
Texaco Trinidad Incorporated ...	7,792,493	779,249	3,430,754 89	4.40	145,134	18.7	2,831,931	—	24,947	22,443	161,817	209,207	26.8	424,908	54.5
TOTALS AND AVERAGES FOR FIRST HALF-YEAR ...	17,340,391	1,734,038	7,746,381 73	4.47	337,371	19.5	8,791,766	58,293	83,234	81,238	263,868	486,633	28.1	910,034	52.4
Apex (Trinidad) Oilfields Limited ...	768,112	76,811	319,819 09	4.16	9,450	12.3	131,393	—	—	—	24,017	24,017	31.3	43,344	56.4
Dominion Oil Limited ...	46,594	4,659	25,974 79	5.58	2,307	49.5	94,901	1,985	—	—	—	1,985	42.6	367	7.9
Kern Trinidad Oilfields Limited ...	210,218	21,022	70,945 68	3.37	1,607	7.6	37,503	292	—	—	—	292	1.4	19,123	91.0
Premier Consolidated Oilfields Limited ...	51,704	5,170	21,559 78	4.17	483	9.4	4,624	—	682	—	1,109	1,791	34.6	2,896	56.0
Estate of Timothy Roodal ...	107	11	41 33	3.76	—	—	—	—	—	—	4	4	34.0	7	66.0
Shell Trinidad Limited ...	3,233,635	323,369	1,453,279 38	4.44	65,997	20.1	2,223,293	53,068	—	50,926	244	104,238	31.7	158,134	48.2
Trinidad Central Oilfields Limited ...	719,775	71,978	322,360 43	4.48	21,719	30.2	780,869	1,946	1,218	—	12,827	15,791	21.9	34,468	47.9
Trinidad Northern Areas Limited ...	2,127,296	212,730	951,492 36	4.47	51,721	24.3	2,261,896	—	60,045	—	—	60,045	28.2	100,964	47.5
Trinidad Petroleum Development Company Limited ...	2,895,842	293,534	1,287,015 66	4.31	53,210	17.8	1,068,816	—	—	25,742	64,778	90,520	30.3	154,354	51.9
Texaco Trinidad Incorporated ...	8,468,133	846,813	3,529,783 56	4.29	160,852	19.0	2,908,935	—	36,560	28,210	167,236	232,056	27.4	453,910	53.6
TOTALS AND AVERAGES FOR SECOND HALF-YEAR ...	18,661,516	1,866,152	8,087,272 06	4.33	367,346	19.7	9,512,240	57,291	98,505	104,878	270,065	530,739	28.4	968,067	51.9
YEAR'S TOTALS AND AVERAGES ...	36,001,907	3,600,190	15,833,653 79	4.40	704,717	19.6	18,304,006	115,584	181,739	186,116	533,933	1,017,372	28.2	1,878,101	52.2

SUMMARY OF LEASED OIL AREAS, 1959

CROWN OIL RIGHTS					A.	R.	P.
1. Principal leases issued as at 1st January, 1960 (Private Surface)	...			...	98,731	2	06
2. Principal leases issued as at 1st January, 1960 (Crown Surface)	...			...	328,677	2	16
3. Exploration Licences	...	...	...	...	—	—	—
4. Marine Licences	...	...	...	...	861,413	0	00
5. Total acreage under lease or licence					...	1,288,822	0 22
PRIVATE OIL RIGHTS					A.	R.	P.
6. Private Oil rights under lease as at 1st January, 1960	...			...	152,918	2	36
7. Total acreage of all lands under lease					...	1,441,740	3 18

STAFF

41. Mr. J. Burslem, Assistant Petroleum Technologist went on pre-retirement leave on the 12th May after 8½ years' service in the Department. In September, Mr. O. O. Fernandes proceeded to Pennsylvania State University on one year's study leave to pursue an M.Sc. degree in Petroleum and Natural Gas Engineering.

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

G. J. MAINGOT
Acting Assistant Petroleum Technologist

Petroleum Department,
 Ministry of Industry, Commerce,
 Tourism and External Communications,
 Trinidad.

Belmont

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