ANNUAL

ADMINISTRATION

REPORT FOR

THE YEAR

1958

TRINIDAD AND TOBAGO

PETROLEUM DEPARTMENT



ANNUAL

ADMINISTRATION

REPORT FOR

THE YEAR

1958

ADMINISTRATION REPORT OF THE PETROLEUM DEPARTMENT, 1958

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

I have the honour to submit the following report on the Oil and Asphalt Industries of the Territory for the year 1958.

THE OIL INDUSTRY

								PA	RAGRAPHS
GENERAL	•••	***	•••	•••	•••	•••	***	•••	1-10
MOVEMENT OF CRU	DE OIL A	ND PROD	UCTS	•••	•••			•••	11-13
CONTRIBUTION TO	REVENUE	AND LO	CAL DISB	URSEME	NTS	•••	•••		14-17
EXPORTS OF PETRO	OLEUM AN	D ITS PR	ODUCTS	•••	•••		•••	•••	18-20
ROYALTY ASSESSME	ENT		•••	•••		•••	•••	•••	21-23
LOCAL SALES OF P	'ETROLEUN	PRODUC	CTS	•••	•••	•••	•••	•••	24
ACCIDENT STATISTI	cs for 19	958		•••	•••	•••	•••	•••	25-28
LEGISLATION	•••	***	***	•••	•••	•••	***	•••	29-31
CROWN OIL MINING	G LEASES	AND LIC	ENCES	•••	•••	•••	•••	•••	32-34
Staff	***	***	***	•••	,	•••	•••	•••	35
A SUMMARY OF SE O. O. FERNAN		RECOVE	RY OPER	ATIONS	IN TRINI	IDAD DU	RING 1958	в ү 	36–39
TABLE I—An	INUAL STA	TISTICS							
TABLE II—An	ALYSIS OF	Month	LY DRILL	ING RE	TURN				
TABLE III—An	ALYSIS OF	Month	LY PROD	uction ?	RETURN				
TABLE IIIA—An	ALYSIS OF	ANNUA	L Produc	CTION B	у Сомра	NIES			
TABLE IV—An	ALYSIS OF	MONTH	LY GAS I	RETURN	FOR 195	8			
TABLE V—RE	TURN SHO		RODUCTIO	n, Stoc	KS AND	DISPOSA	L OF PETE	ROLEUM	AND ITS
TABLE VI—ST.	ATEMENT	SHOWING	CONTRIB	UTION T	o Revei	NUE OF	THE TERRE	rory	
TABLE VII—DE	TAILS OF	LOCAL D)isbursen	MENTS					
TABLE VIII—Lis	er of Oil	OPERAT	ions in '	Trinida	D, 1958,	SHOWING	G AREAS U	NDER I	EASE
TABLE IX—Lis		ortant I Drilled			OUTSTE	P WELLS	S AND DEE	Р Ехрі	COITATION
TABLE X—Sur	MMARY OF	CRUDE O	IL Assess	SED FOR	Crown R	OYALTY	WITH PRICE	s and A	Analyses
APPENDIX "A	"-GRAPE	I SHOWIN	G ANNUA	AL CRUD	E OIL P	RODUCTI	ON		
APPENDIX "B	"—Скарн	SHOWIN	G CRUDE	OIL P	RODUCTIO	n ву M	ETHODS		
APPENDIX "C	"—Grapi	I SHOWIN	G ANNUA	AL DRIL	LING FOO	TAGE			
APPENDIX "D	"GRAPE	SHOWIN	G Рауми	ENTS TO	CONTRAC	CTORS A	ND EMPLOY	EES	
APPENDIX "E		SHOWIN			DISTRIB	UTION O	F TOTAL	VALUES	OF THE
APPENDIX "F	"—Graph	SHOWIN	g Produ	CTION O	F SALT	WATER			
APPENDIX "G	"	SHOWIN	G CUMUL	ATIVE P	RODUCTI	ON AND	FOOTAGE		
APPENDIX "H		GRAM SHO		RINIDAD'	s Contr	IBUTION	TO WESTER	RN HE	MISPHERE

THE OIL INDUSTRY

The year 1958 was one of considerable progress for the Oil Industry in Trinidad. For the first time in its history the average daily production exceeded 100,000 barrels per day, the total production for the year showing an increase of 9.7 per cent. compared to that for 1957. The more important statistics for the year are given in Table I with previous years shown for comparison.

- 2. The production of crude oil in 1958 amounted to 37.35 million barrels an increase of over 3 million barrels as compared to 1957. All companies showed increases in production with the exception of Shell and Trinidad Central Oilfields Limited both of whom produced about 10 per cent. less than in the previous year. The drop in Shell's production was temporary only and a matter of company policy while the decline in Trinidad Oilfields Limited production was due to a curtailed drilling programme, the company drilling only 2 wells during the year.
- 3. The greater part of increased production came from outstep drilling from existing fields but recompletions and the twenty-five secondary recovery projects in operation from the Soldado marine field showed a most satisfactory increase.

In December, 1957 marine production accounted for only 31 thousand barrels or 1 per cent. of the Island's production whereas in December, 1958 the marine areas produced 280 thousand barrels or 8 per cent. of the Island's production. In the Soldado field 11 wells were completed during the year.

- 4. The daily average production for all producing wells again increased being 32.6 barrels as compared to 30.6 in 1957. This was largely accounted for by new wells being somewhat more prolific than those drilled in the previous year, the average producing rate for flowing wells being 73.6 barrels per day as compared to 69.0 barrels per day in 1957. Wells on artificial lift also showed an improvement from an average of 15.0 to 15.5 barrels per day due to better performance of gas lift wells.
- 5. Statistics relative to crude oil will be found in Table I, items 1–5 and 22–27 while a detailed monthly analysis by production methods is given in Table III. A similar breakdown by companies appears in Table III. Appendix "A" shows annual crude oil production by years while Appendix "B" shows the proportion of annual production contributed by each of the three principal methods of production. Information on secondary recovery will be found in paragraphs 32 to 35 and appended table.
- 6. Drilling rigs in continuous operation during the year averaged 32 as compared to 29 in 1957. Texaco maintained the largest number with 11, while Trinidad Petroleum Development had 7 rigs. Apex ran 4 strings and Shell 3 strings continuously during the year. The remaining 7 strings were operated by contractors.
- 7. Rig performance dropped slightly being an average of 117 feet drilled per rig per day for an annual total of 1,365,129 feet, whereas in 1957 an average of 123 feet drilled per rig per day was attained. The slight drop was due to difficulties with marine wells.
- 8. The average depth of completed wells, 4,604 feet, was 10 per cent. more than the average for 1957 (4,151 feet). The success ratio improved being 88 per cent., only 7.6 per cent. of all footage drilled being non-productive (12.7 per cent. in 1957). Of the 295 wells completed during the year 52 or 18 per cent. were regarded as exploratory or outstep. Of these 52 wells, 17 were "wild cats" three of which were completed as small producers. No new fields of significance were discovered during 1958.
 - 9. The following Table shows a breakdown of drilling activities in 1958:-

Wells completed in 1958

				Oil	Gas	Dry	Total	Per Cent. Successful
Exploratory Tests	(a) Marine	• • •	•••	2		3	5	40.0
	(b) Land		•••	27		20	47	57.4
Development Wells	(a) Marine	•••	•••	12			12	100.0
	(b) Land	•••		215	-	12	227	94.7
				256		35	291	88.0
Suspended	•••	•••	•••		· ——	*****	3	
Injection Well	• • •	•••	•••				1	
Total Nu	MBER OF WE	als D	RILLED	•••	***		295	.

A monthly analysis of drilling wells will be found in Table II while the annual footage drilled by years is given in Appendix "C".

10. There was considerable activity in marine drilling during the year. The Offshore Drilling Company were operating a drilling ship for Dominion Oil Limited, using the method developed by the C.U.S.S. group of Companies in which drilling operations were conducted through a 10-foot diameter well in the centre of the ship, blowout preventers and completion fittings being located on the sea floor. Trinidad Northern Areas were drilling at Soldado from fixed steel platforms which were erected by driving piles through the hollow legs of a prefabricated steel jacket. In August, 1958 this company started drilling from a mobile Delong barge fitted with four retractable 220-foot long 10-foot diameter steel spud legs up which the entire barge can be jacked to a sufficient height above the water to be clear of waves and swells. Towards the end of the year Texaco started to drill from a platform about a mile offshore from Brighton. This was constructed from pre-stressed concrete piles and was designed to accommodate 36 wells.

MOVEMENT OF CRUDE OIL AND PRODUCTS

11. Details of Crude Oil movement and product disposed are given in detail in Table V. These can be summarised as follows:—

can be summa	TIBOU AS	TOHOWS .							
				Crude	Oil Balance		•		
A vailab	ility			$Million \ Barrels$	Disposa	l			Million Barrels
Stock on 31st	Decemb	er, 1957		1.62	Exports	•••	***		2.10
Production		37.59			Local Consum	ption		• • •	0.05
Less loss	•••	0.17		37.42	Delivered to R	efinery	•••	• • •	60.26
Imports	•••	***	•••	25.53	Stock on 31st	December,	1958	***	2.16
				64.57					64.57
				Refined Pr	roducts Balance			-	
Availab	ility			$egin{aligned} Million \ Barrels \end{aligned}$	Disposa	l			Million Barrels
Stock on 31st	Decemb	er, 1957	•••	3.86	Shipments		•••	•••	53.02
Imports		•••	•••	1.90	Bunkers	•••	•••	•••	5.57
Crude delivere	\mathbf{d}	60.26			Local Consum	otion	•••		2.00
Less loss on R	efining	1.22			Stocks on 31st	December	, 1958		4.21
Products obtain	ined	***	***	59.04					
				64.80					64.80
								-	

- 12. The import of Crude from South American countries, 19.68 million barrels, was practically unchanged from the figure for 1957. But 5.85 million barrels of Crude were imported from Saudi Arabia bringing the total import figure to 25.53 million barrels.
- 13. Refinery input at 60 million barrels was 20 per cent. higher than in 1957. This increase was achieved by re-organisation of existing refinery facilities without the help of any new additional plant. Substantial additions to the Pointe-a-Pierre Refinery were however being planned by Texaco.

CONTRIBUTION TO REVENUE AND LOCAL DISBURSEMENTS

- 14. Details of the disbursements of the local Oil Industry are given in Tables VI and VII. It will be noted that the total outgoings of the Industry increased by nearly 10 per cent. as compared to 1957. Taxes paid to Government increased by 26 per cent. to a total of \$57.7 million, representing 44 per cent. of the total revenue for 1958.
- 15. Income Tax accounted for \$36.8 million representing a tax rate of 40 per cent. on a chargeable income of \$92.0 million. Adding to this last figure the amount of \$20.9 million being the sum of taxes paid before arriving at the chargeable income, gives a sum of \$112.9 million for the gross profit shared between Government and the Industry. The approximate division of profit is shown below:—

	Million	Million
	\$	\$
Chargeable Income	-	92.0
Tax deducted before arriving at Chargeable Income	-	*******
Royalty on Oil and Gas 16.2		
Customs Dues 2.3		
Other Taxes, Charges, Fees, &c. 2.4	20.9	20.9
Income Tax at 40 per cent. of Chargeable Income	36.8	
Government takes 51 per cent	57.7	-
Industry takes 49 per cent	55.2	
tu out out of the second	112.9	112.9

- 16. In comparing the level of taxation of the local Oil Industry with that in other oil producing countries it must be borne in mind that the figures given in Tables VI and VII and above, cover the entire local industry including the refining of both indigenous and imported crude. In all countries where a 50:50 split of gross profits between Government and the Oil Industry is in effect refining is not included in the 50:50 formula. If refining is excluded from the Trinidad figures the profit split is more in Government's favour than the 51:49 division indicated above. The sum paid annually in private royalties, about \$2.3 million must also be brought into account when comparing the local taxation of oil with that of countries where all the production bears Government Royalty.
- 17. 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. Revenues of these two services were included in the territory's total revenue in past years and for ease in comparison with past years are included in Table VI which is set up to show pure taxation as distinct from payments to Government Departments in return for various services.

Contribution by the Oil Industry to the Revenue of Trinidad in 1958

Revenue Head in the Territory's Estimates		Revenue Received	Contribution by Oil Industry	Percentage contributed by Oil Industry
Ordinary Revenue		\$	\$	%
1. Customs and Excise		36,257,485	2,538,305	7.00
2. Licences and Internal Revenue not otherwise classified	,	7,255,090	170,721	2.35
3. Taxes on Income		57.433.301	36,818,288	64.11
4. Fees and Payments for Specific Services		1,342,074	38,631	2.88
5. County Council		1,105,455	250,815	22.68
6 Painshumannants		2,646,298	82,042	3.10
7. Earnings of Government Departments		590,828	21,077	3.57
9 Doot Office		2,167,531	53,011	2.45
O Pont of Community Property	ł	402,055	11,141	2.77
10 Interest		1,732,266	11,111	
11 Misselloweers	••••	1,124,184	79,365	7.06
12. Forests, Lands and Petroleum	• • • • • • • • • • • • • • • • • • • •	16,471,817	16,351,466	99.27
Total Ordinary Revenue		128,528,364	56,414,862	43.89
Extra Ordinary Revenue				
13. Premia on Leases (formerly Land Sales)		38,760		<u> </u>
14. Loans to Public Bodies		1,266,134	_	-
15. Grants under Colonial Development and Welfare Organia	zation	188,704		
16. Extraordinary		10,000		
Total as per Territory's Financial Statement, 1958	•	130,031.962	56,414,862	43.38
A. Port Services		8,826,030 1,076,084	1,588,350 129,403	18.00 12.02
		\$139,934,076	58,132,615	41.54

EXPORTS OF PETROLEUM AND ITS PRODUCTS

- 18. The value of Petroleum exports in 1958 was almost unchanged from that of the previous year, the increased volume exported being just offset by a drop in prices.
- 19. Table I (items 10-12), gives figures for the exports of Petroleum including the re-export of products obtained from imported crude, while Table V gives a detailed breakdown of refined products exported.
- 20. The following tabulation shows the contribution to the total value of the island's exports made by Petroleum and various agricultural products. The percentage value of these contributions have been graphed for a number of years in Appendix E.

Exports			,,,	or or crease	1958		1957	
			com	as pared 1957	\$	%	\$	%
Petroleum (including produc	ets from						222 275 725	^^ =
imported Crude)	***		 	0.27	305,783,235	80.3	306,617,525	80.7
Petroleum Bitumen				53.4	2,366,121	0.6	5,079,173	0.4
Asphalt and its Products			+	5.2	2,838,345	0.7	2,698,492	0.7
Cocoa	***		1+	50.4	12,745,489	3.4	8,474,522	2.2
Sugar, Molasses and Rum		,,,	+	2.8	32,082,148	8.4	31,216,938	8.2
Coconuts, Coconut Oil, &c.				48.1	567,868	0.2	1,181,134	0.3
Coffee			1.	16.1	2,497,691	0.7	2,151,036	0.6
Bitters			l i	4.5	932,802	0.2	892,651	0.2
Fresh Fruit and Juices			1:	77.9	6,542,805	1.7	3,677,415	1.0
All others	•••	•••	1	19.2	14,576,573	3.8	18,033,631	4.3
TOTALS		•••		0.24	380,933,077	100.0	380,022,517	100.0

ROYALTY ASSESSMENT

21. The Royalty assessed on the crude oil, natural gasoline and natural gas produced in Crown Oil Mining leases for each half-yearly royalty period during 1956, 1957, and 1958 is shown on the following table:—

		Assessmen	T FOR HALF-	YEARLY PERIO	D ENDING	
Source of Revenue	31.12.58	30.6.58	31.12.57	30.6.57	31.12.56	30.6.56
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Royalty on Natural Gas	69,828 42	61,967 51	60,383 21	59,029 14	71,129 55	49,160 07
Royalty on Natural Gasolene	48,745 47	53,075 55	64,694 90	71,433 53	60,336 99	58,548 06
Minimum Rents not offset by Royalty on Crude Oil	004050 15	696,627 49	586,919 89	582,229 63	302,298 09	528,502 94
Royalty on Crude Oil	7,503,327 20	6,970,439 58	7,479,805 49	7,251,605 19	5,462,344 84	4,877,501 51
Half-yearly Totals	8,285,953 26	7,782,110 13	8,191,803 49	7,964,297 49	5,896,095 47	5,513,712 58
Yearly Totals	16,068,	063 39	16,868,	098 98	11,409,	808 05
Assessment Totals		15,973,	913 62	13,860,	392 96	
Drawback claimed			——————————————————————————————————————			

22. The volume upon which the above assessments were made were as follows:—

			Нац	F-YEARLY I	PERIOD ENI	DING	77
Substance Assessed for Royalty	Unit	31.12.58	30.6.58	31.12.57	30.6.57	31.12.56	30.6.56
Natural Gas	M.C. Ft.	4,600,249	4,131,167	4,025,546	3,857,93	3,796,160	2,978,008
Natural Gasoline	Gals.	2,755,939	3,009,391	3,349,343	3,602,604	3,307,596	3,196,860
Crude Oil, Gross	Bbls.	16,812,003	15,440,174	14,919,396	13,591,721	12,142,112	11,129,530
Crude Oil used free of Royalty	Bbls.	52,652	49,866	49,505	51,357	40,652	92,842
Crude Oil, Net	Bbls.	16,759,351	15,390,308	14,869,891	13,540,364	12,101,460	11,036,688
Crude Oil, average Royalty value	\$/Bbls.	4.48	4.53	5.03	5.36	4.51	4.42

Note:—Statistical volumes of gross production, free of royalty, &c., are mainly reported at 34.9726 Imperial Gallons per barrel but include some volumes reported at 35 Imperial Gallons per barrel.

Royalty quantities are all at 34.9726 Imperial Gallons per barrel.

23. The data used to evaluate crude oil for crown royalty assessment for each of the last five half-yearly royalty periods together with the royalty rate on casing head petroleum spirit for each of these periods are shown in the following table:—

					PER BARREL O	
Раодист		31.12.58	30.6.58	31.12.57	30.6.57	31.12.56
Bunker "C" Grade Fuel		\$ 3.609,697	\$ 3.914,554	\$ 4.406,645	\$ 4,693,006	\$ 3.746,951
No. 2 Fuel	•••	6.218,034	5.965,277	6.532,492	7.243,772	6.367,476
43-47 D.I. Gas Oil		6.307,526	6.058,299	6.622,717	7.325,556	6.400,921
48–52 D.I. Gas Oil	•••	6.397,397	6.147,857	6.712,942	7.414,320	6.489,946
53–57 D.I. Gas Oil	•••	6.485,802	6.237,415	6.80 3 ,167	7.503,084	6.579,953
70-72 Oct. M. Leaded Motor Gas		6.628,911	6.431,376	7.086,592	7.284,664	6.751,608
Average Middle Rate for sight draft New York. Premiums in B.W.I. per \$1.00 U.S			70.587,293	71.857,337	71.924,585	72.381,250
Value of Tetra-Ethyl Lead in B.W.I. cer per Millilitre	nts	.449,219	0.443,456	0.432,255	0.429,451	0.428,892
Royalty in B.W.I. cents per gallon on C Head Petroleum Spirit	asing	1.912,706	1.956,618	2.058,014	2.087,597	1.915,212
		<u> </u>				

The half-yearly volumes of products to which the above average prices for 1958 were applied respectively in calculating royalty on crude oil will be found in Table X.

LOCAL SALES OF PETROLEUM PRODUCTS

24. Excisable sales of gasoline during 1958 amounted to 27,413,622 gallons an increase of 5 per cent. compared to 1957. Sales of bottled propane increased by 20 per cent. over the 1957 figure to a total of 3,135,403 lb. on which excise duty at $\frac{3}{4}$ cent per lb. yielded \$23,515.

25.

ACCIDENT STATISTICS, 1958

			DRILLIN	G AND PROI	DUCTION	Отне	OTHER DEPARTMENTS*				
	COMPAI	NY	Non- Serious			Non- Serious	Serious	Fatal	No. of Accidents		
Antillés		***	 9		1	6		2	18		
Apex	***	•••	 41	6		35	7		89		
P.C.O.L.	•••	•••	 AMERICA			2		_	2		
Texaco	***	•••	 54	13		35	4		106		
K.T.O.	***	•••	 14	1		5	1		21		
S.T.L.	•••	•••	 34	7		66	8	1	111		
T.P.D.	***	•••	 62	9		96	3	1	171		
T.N.A.		•••	 2	1		1	1	2	7		
	TOTAL		 216	37	1	246	19	6	525		

- *Excluding Refineries, Electrical, Machine and General Field Workshops and Power Stations.
- 26. The total number of accidents reported to this Department in 1958 was 525 which compares with 408 in 1957. This is a reversal of the trend over the past four years in which the yearly rate showed a tendency to diminish rather than increase.
- 27. There were six fatalities during the year four of which were associated with Marine Operations. Of these two were due to equipment failure and the other two to accidental drownings. Two fatalities occurred on land. One resulted from premature discharge of a perforating gun which was being run into a well, the other arose from a gas fire in Boodoosingh Village following the blowout of a nearby drilling well. A boy was burnt to death.
- 28. All fatal accidents were thoroughly investigated by the Department and certain recommendations made.

LEGISLATION

- 29. The Land (Oil Mining) (Amendment) Regulations, 1958 came into operation on 20th February, see Government Notice No. 33, published in the Supplement of the Royal Gazette, Vol. 127, No. 20, dated 20th February, 1958. These Regulations amended the standard forms of crown oil mining lease by deleting the provision for a reduced rate of royalty on gas sold for re-pressuring oil sands.
- 30. The Land (Oil Mining) (Amendment No. 2) Regulations, 1958 came into operation on 27th March, see Government Notice No. 58, published in the Supplement to the Royal Gazette, Vol. 127, No. 34 dated 27th March, 1958. These Regulations amended regulation 28 of the Land (Oil Mining) Regulations by providing that the Governor, acting in his discretion, might waive the requirement that an oil mining lease or part of an oil mining lease to be surrendered must first be surveyed.
- 31. The Oil Impost Rating Order, 1958 made by the Governor in Council under sections 7 and 9 of the Petroleum Department and Conservation Board Ordinance was published as Government Notice No. 127 see Supplement to the Royal Gazette, Vol. 127, No. 89, dated 28th August, 1958. The order provided for an oil impost payable in respect of oil won and footage drilled for oil during the twelve months ended on the 31st December, 1957, at the rate of .12400 of a cent for each barrel of oil won and at the rate of one-half of a cent for each foot drilled for oil.

CROWN OIL MINING LEASES AND LICENCES

- 32. There was little leasing activity during the year, only two new leases being issued. The total acreage of crown oilrights under lease decreased from 1,559,758 acres at the 31st December, 1957 to 1,364,585 acres at the 31st December, 1958. This drop was almost wholly accounted for by area surrendered by Dominion Oil Limited in the Northern half of the island.
- 33. The Antilles Petroleum Company (Trinidad) Limited assigned all its crown oil mining leases to Texaco Trinidad Inc. by Deed No. 12638/58 effective 26th June, 1958. Antilles also surrendered its marine licence the area covered by the licence being re-leased to Texaco Trinidad Inc.
- 34. 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.

SUMMARY OF LEASING ACTIVITY DURING 1958

		No. of	Crown Oil Rights—Acreage							
		Lease or Licence	Privat	e Surfa	сe	Crown	Surfac	36		
Principal Leases at 31st December, 1957 Principal Leases issued in 1958 Supplemental Leases issued in 1958		122 *2	A. 116,913 1,655 125	R. 1 0 3	P. 10½ 36 23	421,601 — 44	R. 2 3 1	P. 31½ 36 38		
Area surrendered in 1958		124 6	118,694 15,396	1 0	29½ 02	421,647 85,928	0 2	$25\frac{1}{2}$		
Leases at 1st January, 1959		118	103,298	1	271	335,718	2	211		
Submarine Licences at 31st December, 1957 Submarine Licences issued during 1958	-::	7 1				1,021,243 15,344	0	00 00		
Submarine Licences surrendered in 1958		8 2				1,036,587 111,014	0	00		
Submarine Licences at 1st January, 1959]	6		18.44		925,573	0	00		
Exploration Licences at 31st December, 1957 Exploration Licences issued in 1958 Exploration Licences at 1st January, 1959					The second second second					
TOTAL ACREAGE LEASED			103,298	1	271	1,261,286	1	39 1		

^{*}Includes I lease with commencing date 1st July 1958, but not registered in 1958.

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

Crown Oil Mining Leases registered during 1958

				Cr	ROWN (On Ric	onts-Acre	AGE	
Mining Leases		No.	Locality	Private	e Surfa	се	Crown	Surfac	е
A) PRINCIPAL LEASES: D.O.L. Reg. No. 856 (not yet registered)	80/58	2		A. 32 1,622	R. 2 2	P. 24 12	A. 0	R. 3	P. 36
A CONTRACT OF THE PROPERTY OF	*	2		1,655	0	36		3	36
D.O.L. 8581/58 67/ T.P.D. 5288/58 34	pl. to 65/56 50/35 94/55	1 2		52 73	2	33 30	 37 6		14 24
TOTAL	.,,	3		125	3	23	44	1	38
<u> </u>				·····					٠,
	7/5 3 8/55 (S) 1/5 4	_	Cocal and Turure do Tacarigua, Cunupia and	— 745	<u>_</u>	-	357 7 —	0	0 25 —
8301 10638 5104 10696	3/54 1/57 (S)		Arima San Raphael do Manzanilla and	316	<u>-</u>	39	63 1,363 22 —	3 0 2	34 00 03
10725	5/54		Tamana Cunupia and San	1,102	0	15	23	2	05
1698 2627			Raphael St. Ann's Turure, Man- zanilla,	6 12,658	0 0	33 03			
8358 15224 8357			Pointe a Pierre, &c. do do Chaguans and Cunupía, &c.	24 101 39	2 3 1	08 15 12	64	<u>-</u> 0	09
12008 300 1760 6768	3/56 3/56		Cunupia Waller Field, &c. Arima Chaguanas and Montserrat	168 40		 29 36	104 13,500 54 10	3 1 2 0	31 08 01 00
968	3/57	_	Turure and Manzanilla	190	2	05	88	0	10
6959	9/57		St. Ann's and Tacarigua				158	0	24
9018	5/57		St. Ann's, Cunupia, &c.	-		annel Sille	54,511	0	14
1273	7/57		Turure				10,600	0	00
TOTAL				15,396	0	02	85,928	2	0

	Submarine Licences iss	sued duri	ng 1958 :						n Oilrig m Surfe	
	Submarine Licences iss	ued duri	ng 1958 :					Α.	R.	P.
	Texaco $13160/58$	***	***	***	•••	•••	•••	15,344	0	90
	Submarine Licences su	rrendere	during	1958:						
	D.O.L.— 4056/52	(part)	•••	•••	•••	***	•••	44,700	0	00
	D.O.L.— 500/53	(part)	•••	•••	•••	•••	• • •	27,640	0	00
	D.O.L.—15221/56	***						23,330	0	00
	Antilles 2701/55	***	•••	•••	•••	***		15,344	0	00
	Тота	AL			•••			111,014	0	00
	Exploration Licences is	ssued du	ring 1958			•••	•••			
	Exploration Licences s	urrender	ed during	1958	•••	•••				
		Su	MMARY O	F LEASED	OTL AR	EAS				ē
Crc	own Oil Rights:							A.	R.	P.
	1. Principal Leases issu	ued as at	1st Janu	iary, 1959	(Private	Surface)		103,298	1	$27\frac{1}{2}$
	2. Principal Leases issu	ued as at	1st Janu	ıary, 1959	(Crown	Surface)	•••	335,713	1	$39\frac{1}{2}$
	3. Exploration Licence	es issued	as at 1st	January,	1959	•••	• • •	and the state of t		
	4. Marine Licences issu	ied as at	January	, 1959	•••	•••	•••	925,573	0	00
	5. Acreage under Leas	e and Lie	cence	•••	•••	•••	•••	1,364,584	3	27
Pri	ivate Oilrights :									
	6. Private Oil Rights 1	ınder Le	ase as at	1st Janua	ry, 1959	•••	•••	160,777	2	09
	7. Total acreage of Oil	Lands	•••	•••	•••	•••	•••	1,525,362	1	36

Staff

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

W. N. FOSTER

Petroleum Technologist

Petroleum Department, Trinidad.

A SUMMARY OF SECONDARY RECOVERY OPERATIONS IN TRINIDAD DURING 1958 By O. O. Fernandes

- 36. There were twenty-five Secondary Recovery Projects in operation at the year end. Of these, twenty were of the Gas-injection type, and the remaining five water-flood. The total area known to be under active Secondary Recovery influence was estimated at approximately sixteen hundred acres.
- 37. During the year a total of 10,652,505 M.S.C.F. of natural gas was re-injected into the gas injection units for a crude oil yield of 2,764,484 barrels. Corresponding figures for the previous year amounted to 9,529,414 M.S.C.F. of gas for 2,168,851 barrels of crude oil.
- 38. In the water-flooding operations, 2,325,402 barrels of water were pumped into the reservoirs and 336,626 barrels of crude oil recovered. In 1957, a total injection of 1,758,461 barrels of water yielded 155,546 barrels of oil.
- 39. The total crude oil recovered from all Secondary Recovery projects was 3,101,110 barrels or 8.3 per cent. of the Island's total production. Secondary Recovery Operations accounted for 6.8 per cent. of the Islands' production in the previous year. A detailed tabulation of the individual projects with their pertinent injection and production characteristics is appended.

DATA ON SECONDARY RECOVERY OPERATIONS IN TRINIDAD, 1958

Type of Injection Fluid	Operator	Field	Tertiary Epoch	Formation	Average depth to top of pay (feet)	Type and Pattern of Project	Area under Project influence (acres)	Date injection began	Average injection pressure (P.S.I.G.)	No. of Input Wells	No. of offtake Wells	Volume injected during 1958. Gas M.S.C.F. Water bbls.	Cumulative Volume of Fluid injected Gas M.S.C.F. Water bbls.	Oil production for 1958 (bbls.)
Do. Do. Do.	Texaco do. do. do. do.	Forest Reserve do do do do do do do	do do do	.U. Cruse M. Cruse L. Forest U. Cruse	5,000 2,500 2,300	Repressuring do do Press. Maint do	. 194 . 148 . 192	1945 1948 1955 1956 1956	2,000 2,000 1,000 2,000 2,000	6 4 1 2 2	28 18 5 7 15	4,223,054 2,339,227 445,760 586,298 1,424,720	27,994,366 10,404,586 2,148,028 1,363,628 3,998,914	989,416 294,692 91,338 363,221 406,004
Natural Gas	T.C.O.	Wilson	. Miocene	.U. Forest	2,000	Gas Sweep	. 7	1957	500	2	1	169,898	348,017	7,206
Do. Do.	Apex do. do. do. do. do.	Fyzabad do do do do do do	do	U. Forest do U. Cruse U. Forest L. Cruse U. Cruse	2,800 1,000 2,680 2,550	Repressuring do do do do do	63 58 25	1957 1952 1951 1958 1958 1958	300 420 400 100 425 390	2 1 2 1 1	11 3 2 5	158,520 49,840 91,550 10,090 1,910 6,110	183,410 501,450 779,880 10,090 1,910 6,110	69,098 37,489 7,785 5,845 —
Do. Do. Do. Do.	T.P.D. do do.	do do do do	. do	. U. Cruse	3,800 2,450 3,500 2,350 3,550	Press. Maint. Repressuring do. do. L. Pr. Sweep Repressuring do.	50 60 	1953 1954 1956 1958 1957 1957	850 1,200 1,100 320 675 2,400	2 2 2 1 1 1	3 6 4 5 	195,515 241,845 83,185 92,570 306,160 179,649 25,420	1,500,138 980,870 412,752 92,570 492,745 187,049 78,485	189,036 166,333 100,670 — 36,351 —
Natural Gas	s.T.L.	Penal	. Miocene	U. Moruga	1,300	L. Pr. Sweep	. –	1958	100	1		21,184	21,184	
		Guayaguayare		Gros Morne		Edgewater Line drive	. —	1953		5	14	751,450	2,885,879	74,399
Do.	do.	do		do	1	Edgewater Line drive Edgewater		1957 — 1958		- 3 2	$-\frac{18}{5}$	379,658 — 111,539	411,728 — 111,539	93,604 17,424
Field Connate Water	do.	Forest Reserve	. do	L. Forest		Line drive 5—Spot	10	1956	_	- 11	9	 643,134	1,065,548	70,349
Field Connate Water	T.P.D.	Palo Seco	Miocene	U. Cruse	3,200	End-to-End Sweep	131	1956	900/1,200	4	11	439,621	1,148,889	80,850

ABBREVIATIONS : P.S.I.G.

...Pounds per square inch gauge;

M.S.C.F.

...1,000 standard cubic feet;

U,

...Upper;

M. L.

...Middle;

Bbls.

...Lower;

...Barrels

TABLE I

ANNUAL STATISTICS OF PRODUCTION, DRILLING, EXPORTS AND IMPORTS

ITEM	1958	Unit	1957	% Difference 1958/1957	1956	1955	1954	1958	1952	1951	1950	1949	1946	1940
PRODUCTION 1. Crude Oil 2. Natural Gasoline 3. TOTAL CRUDE OIL AND NATURAL GASOLINE 4. From Crown Oil Rights 5. From Private Oil Rights	37,355 231 87,586 32,252 5,103	1,000's bbls. do do do do	84,064 265 34,329 28,509 5,555	+ 9.7 - 12.8 + 9.5 + 13.1 - 8.1	28,929 258 29,187 23,462 5,725	24,896 274 25,170 20,119 5,051	28,629 290 23,919 18,902 5,017	22,346 264 22,610 17,899 4,711	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	20,142 187 20,329 15,541 4,788	22,128 208 22,336 16,717 5,619
6. TOTAL IMPORTS 7. Imports of Refined Products (Total of Lub. Oil) 8. Imports of Crude Oil for Refining 9. Imports of other Oils for Refining and Blending	27,294 34 25,529 1,781	1,000's bbls. do do do	20,155 29 19,509 617	+ 35.4 + 17.2 + 30.9 + 180.6	21,041 32* 20,251 758*	18,754 35 17,780 939	17,071 36 16,670 365	16,860 21 16,696 143	17,028 32 16,722 274	16,347 36 15,855 456	11,258 23 11,214 21	11,678 25 11,333 320	2,983 40 2,893	830 399 431
10. TOTAL EXPORTS	49,490 2,100 47,890	1,000.s bbls. do do	50,254 3,273 46,981	- 1.5 - 35.8 + .9	47,697 4,002 43,695*	39,824 2,866 36,958	36,954 3,398 33,556	36,220 1,999 34,221	84,778 1,844 32,934	34,359 1,918 32,441	29,150 2,194 26,956	29,745 2,037 27,708	20,432 263 20,169	20,173 228 19,945
13. Runs to Stills	60,256	1,000's bbls.	50,467	+ 19.4	44,825	40,147	36,918	37,446	36,041	35,160	29,813	29,617	22,713	22,060
14. Number of Wells started	298	As stated	321	7.2	263	225	202	223	187	144	149	146	124	283
15. TOTAL NUMBER OF DRILLING WELLS COMPLETED 16. Number of Drilling Wells completed as Oil Wells 17. Number of Drilling Wells abandoned while Drilling, &c 18. TOTAL FOOTAGE DRILLED (ALL WELLS) 19. Footage drilled on Crown Oil Rights 20. Footage drilled on Private Oil Rights	295 256 35 1,365,129 1,233,834 131,295	As stated do feet do do	314 †282 22 1,322,483 1,071,207 251,276	- 6.0 - 9.2 + 59.1 + 3.2 + 15.2 - 47.7	262 224 38 1,110,745 801,716 309,029	215 191 24 987,567 783,788 203,779	202 189 13 911,242 684,128 227,114	224 211 13 917,894 733,401 164,493	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	108 104 4 533,209 406,017 127,192	276 264 12 1,021,287 824,222 197,065
21. Average depth of Completed Drilling Wells (Item 15)	4,604	Feet	4,151	+ 10.9	4,287	4,372	4,544	4,026	4,286	4,480	4,436	4,065	4,772	8,684
22. Total No. of Wells Producing (Average during year) 23. No. of Wells producing by flowing (Average during year) 24. No. of Wells producing by Artificial Lift (Average during year)	3,141 922 2, 219	As stated do	8,048 882 2,166	+ 3.1 + 4.5 + 2.4	2,858 797 2,061	2,745 718 2,027	2,674 692 1,982	2,836 639 1,897	2,407 594 1,813	2,280 584 1,696	2,197 594 1,608	2,089 616 1,478	1,820 615 1,205	1,48 3 530 953
25. Average Daily Production during Year per Producing Well	32.6	Barrels	30.6	+ 6.5	27.7	24. 8	24.2	24.1	24.1	25.1	25.7	27.0	30.4	41.0
26. Average daily production during year per Flowing Well 27. Average daily production during year per Artificial Lift Well	78.6 15.5	Barrels	69.0 15.0	+ 6.7 + 3.3	60.7 14.9	55.2 14.1	51.0 14.8	49.8 15.5	47.3 16.6	48.5 17.0	50.2 16.6	51.9 16.6	55.0 17.9	79.6 19.7
28. TOTAL VALUE OF DOMESTIC EXPORTS 29. TOTAL VALUE OF PETROLEUM AND ITS PRODUCTS (In Item 28) 30. TOTAL VALUE OF LAKE ASPHALT AND ITS PRODUCTS (In Item 28)	380,983 304,930 2,838	000\$ do	380,022 311,741 2,698	+ .2 2.2 + 5.2	322,049 261,792 2,504	278,985 212,584 3,044	257,178 193,240 3,769	251,258 194,359 4,103	223,331 175,490 5,981	207,584 161,859 3,989	167,562 129,183 2,669	131,790 99,166 3,011	57,572 41,521 3,264	48,574 39,650 618
31. TOTAL NATURAL GAS PRODUCED	79,191 23,403 11,187 44,801	Millions of Cubic Feet do do	65,418 21,211 9,490 34,717	+ 21.1 + 10.3 + 17.9 + 28.5	51,742 21,586 7,408 22,750	40,860 17,590 5,442 17,828	38,494 18,179 3,227 17,088	84,597 17,677 2,532 14,388	31,503 16,870 2,786 11,847	81,725 16,616 2,690 12,519	32,312 16,771 2,674 12,867	32,287 17,270 2,387 12,630	27,170 14,192 827 12,151	30,173 13,801 500 15,872

[†]Includes 4 Injection Wells.

^{*}Amended figures.

TABLE II

MONTHLY ANALYSIS OF DRILLING WELLS FOR YEAR 1958

		en.	•:			1 (4 (2.1)) 1 (1 (2.1)) 2 (1 (2.1))		DRILI	ING W	ELLS COMPL	ETED DU	RING 1958		# f -	ī *	MONTHL	Y FOOTAGE	DRILLED	15 july 1	
Wayner	Average No. of		No. of Oil Wells	No. of Oil Wells		pleted as	Com	pleted as		Abandoned	while dri	lling		closed in					Average Footage	Average Footage drilled
Monte	Rigs Running	new Wells Started	Aban- doned	Recom- pleted	Oil	Producers	Injec	tion Wells	D	y Holes	Techni	cal Causes	after	r Drilling	Total No. of com-	Crown Oilrights	Private Oilrights	Total	drilled per day	per Rig per day
					No.	Aggregate Depth : Feet	No.	Aggregate Depth : Feet	No.	Aggregate Depth : Feet	No.	Aggregate Depth : Feet	No.	Aggregate Depth : Feet	pletions	Omignes	Ourigites		·	
January	31	18	7	20	14	62,792				_	1	7,739	_		15	108 ,096	10,925	119,021	3,839	124
FEBRUARY	32	22	_	18	18	87,144			3	27,072	1	7,718			22	80,231	8,816	89,047	3,180	99
March	31	27	13	25	23	118,001		_	4	23,928		_	1	4,982	28	117,493	16,705	134,198	4,329	140
APRIL	32	25		13	19	87,784			2	13,121				_	21	110,863	11,322	122,185	4,073	127
May	33	23	7	26	20	99,346	_		4	21,595			1	3,443	25	103,436	13,659	117,095	3,777	114
JUNE	33	25	2	23	21	95,535		*****	2	12,700		_	1	10,019	24	114,022	14,028	128,050	4,268	129
JULY	34	31	1	22	23	90,748		******	4	20,972			-		27	99,848	17,988	117,836	3,801	112
August	33	20	10	22	15	68,838			3	11,511					18	93,403	10,070	103,473	3,338	101
September	30	26	3	32	24	92,801		Pauline	1	10,814	1	7,922	_	_	26	101,993	8,533	110,526	3,684	123
OCTOBER	30	25	12	11	33	137,335	1	1,950	1	10,929	-	-	_		35	102,001	4,958	106,959	3,450	115
November	31	32	3	25	25	97,318		_	4	17,060				-	29	106,006	7,577	113,583	3,786	122
DECEMBER	30	24	4	7	21	90,992		_	4	16,103				_	25	96,442	6,714	103,156	3,328	111
Totals and Averages 1958	32	298	62	244	256	1,128,634	1	1,950	32	185,805	3	23,379	3	18,444	295	1,233,834	131,295	1,365,129	3,740	117
Totals and Averages 1957	29	321	18	304	278	1,128,863	4	6,738	21	102,523	1	1,089	10	64,202	314	1,071,207	251,276	1,322,483	3,559	123
% DIFFER- ENCE 1958/ 1957	+10.3	7.2	+244.4	-19.7	7.9		—75.0		+ 52.4		+200.0		70. 0		6.1	+15.2	47.7	+3.2	+5.1	-4.9

Average depth of Wells completed in 1958 = 4,604 feet Average depth of Wells completed in 1957 = 4,151 feet.

3 March Chall Burnels

STOREST RESPONDED AND

.

TABLE III

Analysis of Monthly Production for the Year ended 31st December, 1958

All Crude Oil sigures are for dry Oil—1 Barrel (bbl.)=34.9726 Imperizl Gallons

	ļ	FLOV	VING			Gas/An	R LIFT			PUMPI	ΝG			PLUNGER	Lift		_	OTHER MI	THODS			SALT WAT	rer										Bre	AKDOWN OF	TOTAL PR	ODUCTION	ı
Монтн	No.		%	Daily Average	No.		0/	Daily Average	No.			Daily				Daily							%	Daily	No. of	No. of	No. of Wells	No. of Wells Drilling	Total No. of	Daily Average per	Total		Crown			Priva	te
	of Wells	Quantity Bbls.	Total Oil	per Well Bbls.	of Wells	Quantity Bbls.	Total Oil		of Wells	Quantity Bbls.	Total Oil	Average per Well Bbls.	No. of Wells	Quantity Bbls.	Total Oil	Average per Well Bbls.	No. of Wells	Quantity Bbls.	% Total Oil	Daily Average per Well		Quantity Bbls.	Total Fluid Pro- duced	Average per Wet Well	Wells Pro- duced	No. of Idle Wells	Aban- doned (Total)	at end of month	Wells Started	Pro- ducing Well	Oil Produced	Daily Average per Prod. Well	No. of Wells	Quantity Produced Bbls.	Daily Average per Prod. Well	No. of Wells	Quantity Produced Bbls.
nuary oruary ch ril y ne	902 888 900 903 930 925	1,953,21 1,792,51 1,963,456 1,964,099 2,081,186 2,037,466	64.5 65.2 66.0 66.5	69.9 71.3 70.4 72.5 72.2 73.4	254 239 255 254 255 265	236,98 223,31 246,37 245,22 249,06 250,26	0 8.0 9 8.2 8 8.2 7 8.0	33.3 31.2 32.2 31.5	1,703 1,708 1,705 1,649 1,667 1,653	718,755 654,536 688,128 661,603 690,989 664,401	23.6 22.9 22.2 22.1	13.6 13.7 13.0 13.4 13.4 13.4	262 275 279 272 263 271	110,875 106,734 109,960 104,282 108,571 105,346	3.7 3.8 3.7 3.5 3.4 3.4	13.7 13.9 12.7 12.8 13.3 13.0	22 24 24 11 23 14	687 961 970 550 500 582	0.1	1.4 1.3 1.7 0.7	1,356 1,331 1,396 1,349 1,335 1,327	622,965 557,983 628,200 584,350 597,777 580,903	16.7 17.3 16.4 16.0	14.8 13.5 14.5 14.4 14.4 14.6	3,143 3,134 3,163 3,089 3,138 3,128	1,891 1,918 1,901 1,994 1,960 1,989	1,492 1,496 1,512 1,514 1,525 1,529	29 29 28 32 29	6,555 6,577 6,604 6,629 6,652 6,677	31.0 31.7 30.7 32.1 32.2 32.6	3,020,514 2,778,055 3,008,887 2,975,762 3,130,307 3,058,055	36.9 37.8 36.6 38.2	2,260 2,242 2,273 2,245 2,265 2,275	2,583,507 2,370,643 2,578,000 2,575,889 2,696,578 2,635,557	16.0 16.3 15.6 15.8 16.0 16.0	883 892 890 844 873 853	437,00 407,4 430,80 399,80 433,70 422,40
luction t Jan., 1958 30th June, 1958 Totals		11,791,92	Ŀ	_		1,451,22	8	_		4,078,412				645,768	_	_	_	4,250		1.4		3,572,198				1,989	1,529	31	0,077	32.0	17,971,580	37.4		15,440,174			2,531,
ember ber mber	930 925 948 937 941 934	2,134,42 2,129,02 2,076,08 2,159,07 2,150,40 2,329,35	66.2 66.4 66.6 67.1	74.0 74.2 73.0 74.3 76.2 80.5	260 271 279 290 279 285	259,82 285,09 275,93 295,29 285,29 297,63	5 8.9 9 8.8 8 9.1 6 8.9	33.9 33.0 32.8 34.1	1,644 1,640 1,647 1,640 1,661 1,654	678,233 697,111 669,477 677,426 652,880 671,529	12.6 21.4 20.9 20.4	13.3 13.7 13.5 13.3 13.1 13.1	269 268 273 271 279 281	104,443 105,173 105,734 110,854 113,740	3.3 3.3 3.4 3.4 3.6	12.5 12.7 12.9 13.2 13.6	12 26 10 18	567 681 651 815 597	0.0 0.0 0.0 0.0 0.0	1.5 0.8 2.2 1.4 1.8	1,330 1,316 1,310 1,317 1,329	597,831 608,383 575,735 588,963 595,635	15.8 18.5 15.5 15.4 15.7	14.5 14.9 14.6 14.4 14.9	3,115 3,130 3,157 3,156 3,171	2,028 2,019 2,014 2,034 2,041	1,533 1,546 1,551 1,564 1,571	32 33 32 25 28	6,708 6,728 6,754 6,779 6,811	32.9 33.2 33.0 33.2 33.7	3,177,487 3,217,085 3,127,889 3,243,465 3,202,921 3,414,632	38.9 39.3 39.1 39.3 40.0	2,272 2,273 2,300 2,309 2,328	2,743,088 2,772,441 2,700,463 2,812,427 2,795,302	16.6 16.7 16.6 16.4 16.1	843 857 857 847 843	434 444 427 431 407
uction July, 1958 31st Dec., 1958 Totals		12,978,366	· _			1,699,08	-			4,046,656			201	655,174	3.4	13.2	17	891	0.0	1.7	1,349	649,843	16.0	15.5	3,171	2,057	1,578	29	6,835	34.7		41.4	2,328	2,988,282	16.3	843	
's Production Totals		24,770,290) _	_		3,150,30	7 -	_		8,125,068				1,300,942				4,202 8,452				3,616,390 7,188,588	_								19,383,479			16,812,003 32,252,177			5,102
Averages		67,864		73.6		8,63	1 —	32.4	_	22,261	_	13.4	_	3,564		13.1		23		1.4	 	19,695	1	14.7						32.6	37,355,059 102,343	38.7		88,362	16.3		1:
age during year	. 922	_	66.3	_	266	_	8.4	_	1,664	_	21.8	_	272		3,5		17		0.0		1,337		16.1		3,141								2,281			860	

Ħ

TABLE IIIA

Analysis of Production for 1958 by Operating Companies

(All Crude Oil quantity figures are for Dry Oil)

			1		<u> </u>				1				1	1			[Production	Cna	Orr Browns	PRODUCTION	FROM PRIVAT	E OIL RIGHTS
	FLO	WING	GAS/A	R LIFT	Рим	PING	PLUNGE	ER LIFT	OTHER 1	METHODS	SALT '	WATER				Daily		PRODUCTION	FROM CROWN	OIL MIGHIS	7		T
COMPANY	Average No. of Wells	(Barrels)	Average No. of Wells	Quantity (Barrels)	Average No. of Wet Wells	Quantity (Barrels)	% of Total Fluid Production Well	Daily Average per Wet Well	Average No . of Wells Produced	Average per Producing Well	Total Oil Produced (Barrels)	Daily Average per Prod. Well	No. of Wells	Production Barrals	Daily Average per Prod. Well	No. of Wells	Production Barrels						
Antilles Petroleum Company (Trinidad) Limited (1)	91	1,510,463	24	38,733	66	78,419	_	_	2	404	95	171,690	9.5	5.0	183	24.4	1,628,019	50.5	75	1,382,190	6.2	108	245,829
Apex (Trinidad) Oilfields Limited	71	1,313,632	52	260,463	266	1,319,056	29	249,350			154	709,483	18.4	12.6	418	20.6	3,142,501	28.8	161	1,691,627	15.4	257	1,450,874
Dominion Oil Limited	1	1.852					<u> </u>				1	27	1.4	0.2	1	15.2	1,852*	15.2	1	1,852			
Kern Trinidad Oilfields Limited	96	869,906	 	<u> </u>	103	273,356		 			29	162,017	12.4	15.3	199	15.7	1,143,262	20.3	59	437,386	13.7	141	705,876
Premier Consolidated Oilfields Limited	7	87,439	 		168	329,993			10	1,145	44	233,334	35.8	14.5	185	6.2	418,577	5.8	65	137,358	6.4	120	281,219
CL II M	193	5,285,972	49	616,344	297	2,087,035		1,321	10	6,058	220	1,751,064	20.0	21.8	547	40.1	7,996,730	45.6	415	6,900,958	22.7	132	1,095,772
Trinidad Central Oilfields Limited	29	1.074.896	1	010,344	121	553,189		1,021		22	80	319,553	16.4	10.9	151	29.5	1,628,107	<u> </u>	151	1,628,107			
Trinidad Northern Areas Limited	20	1,981,074		2					<u> </u>		4	68,884	3.4	47.2	20	271.4	1,981,076		20	1,981,076			
Trinidad Petroleum Development Company Limited	160	2,662,098	90	1,203,064	36	171,425	243	1,050,271			127	1,262,693	19.9	27.2	529	26.3	5,086,858	27.1	500	4,937,966	14.1	29	148,892
Texaco Trinidad Incorporated (2)	299	9,982,958	62	1,031,701	639	3,312,595		1,000,211		823	631	2,509,843	14.9	10.9	1,000	39.3	14,328,077	41.3	872	13,153,657	25.1	128	1,174,420
TOTAL	200	24,770,290		3,150,307	008	8,125,068		1,300,942		8,452	031	7,188,588	16.1	10.0	2,000		37,355,059			32,252,177			5,102,882

Production for first half year only.
 Includes Antilles production for second half year.

Natural Gasoline Production-1958

COMPANY	Crown Oil Rights	PRIVATE OIL RIGHTS	TOTAL
j	Barrels	Barrels	Barrels
Apex (Trinidad) Oilfields Limited	41,128	59,560	100,688
Texaco Trinidad Incorporated	4,975		4,975
Trinidad Petroleum Development Company Limited	122,772	2,955	125,727
TOTAL	168,875	62,515	231,390

*Produced four months only.

.

TABLE IV

PRODUCTION AND DISPOSAL OF NATURAL GAS

(All figures of gas production in thousands of cubic feet)

									NATURA	L GAS DISPOS	AL		•	NATUR	AL GAS RE	COVERY	
	1958		Crude Oil Production (Barrels)	Average G.O.R. (c. ft./bbl.)	Natural Gas Production	Sales to	Replaced	Converted	Used	AS FUEL	Vented as	Pipeline Losses and	Not	Natural	Average Plant	Natural Gasoline	Inter-Oil Company Sales†
			,	(0. 10,700.1)		Other	in Formation	c.H.P.S.	In Fields	At Refineries	Surplus	unaccounted for	Collected	.Gas treated	Recovery I.G./ M.C.F.	Produced (Bbls.)	
January	***		3,020,514	2,052	6,197,663	200,430	932,075	20,543	671,874	944,618	1,950,793	225,013	1,252,317	991,743	0.69	19,565	515,032
February		•••	2,778,055	2,063	5,731,353	173,928	877,532	19,206	650,837	817,659	1,942,571	205,780	1,043,840	1,037,191	0.62	18,291	502,097
March.	•••	•••	3,008,887	2,097	6,308,421	182,039	943,291	21,645	734,326	989,282	1,989,329	249,441	1,199,068	1,172,241	0.61	20,614	531,122
April	•••		2,975,762	2,137	6,360,163	186,901	953,147	21,108	748,439	951,821	2,137,698	275,633	1,085,416	1,069,201	0.66	20,103	522,589
May	***		3,130,307	2,087	6,533,902	182,184	1,047,795	-22,394	761,520	1,041,385	1,813,622	318,240	1,346,762	854,699	0.87	21,328	543,167
J un e	***	•	3,058,055	2,131	6,516,105	204,836	977,110	20,454	700,933	1,069,710	1,952,171	372,658	1,218,233	790,135	0.86	19,480	532,195
lst Half-Y	ear Total	s	17,971,580	2,095	37,647,607	1,130,318	5,730,950	125,350	4,267,929	5,814,475	11,786,184	1,646,765	7,145,636	5,915,210	0.71	119,381	3,146,202
July	•••	••	3,177,487	2,132	6,774,803	232,134	908,514	20,702	679,484	1,136,529	1,921,809	411,582	1,464,049	801,520	0.84	19,176	535,690
August			3,217,085	2,109	6,784,399	236,315	970,654	20,639	612,852	1,131,534	1,907,735	381,001	1,523,669	809,610	0.85	19,656	554,679
September			3,127,889	2,162	6,762,992	231,944	907,859	19,310	602,641	1,103,613	1,934,761	481,122	1,481,742	746,890	0.86	18,390	533,739
October	•••	**	3,243,465	2,196	7,128,128	217,250	961,568	19,202	680,965	1,118,830	1,954,965	503,387	1,671,961	757,945	0.84	18,288	524,083
November	•••	••	3,202,921	2,149	6,883,218	227,632	870,378	18,622	636,803	1,148,315	1,989,382	488,218	1,503,868	746,335	0.83	17,735	596,954
December	•••		3,414,632	2,111	7,209,624	246,387	837,212	19,703	652,748	1,294,036	2,123,490	452,004	1,584,044	791,460	0.83	18,765	669,061
2nd Half-Y	Year Tota	ls	19,383,479	2,143	41,543,164	1,391,662	5,456,185	118,178	3,865,493	6,932,857	11,832,142	2,717,314	9,229,333	4,653,760	0.84	112,010	3,414,208
YEAR	's Total	•••	37,355,059	2,120	79,190,771	2,521,980	11,187,135	243,528	8,133,422	12,747,332	23,618,326	4,364,079	16,374,969	10,568,970	0.77	231,391	6,560,406
PERCENTACE FOR YEAR		SAL		***	100.0%	3.1%	14.1%	0.3%	10.4%	16.1%	29.8%	5.5%	20.7%	· · · · · · · · · · · · · · · · · · ·		- · · · · · · · · · · · · · · · · · · ·	

^{*}Sales to the T.T.E.C., Trinidad Cement Limited and Trinidad Oilfields Service for use 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 1958

(All figures in Barrels)

and the second of the second o							·								
						· · · · · · · · · · · · · · · · · · ·	R	EFINED P	RODUCTS						
	Crude and Process Oil	AVIATIO	N SPIRIT	Motor	White	Burning	Vapour-	Gas and	Fuel Oils	Lub, Oil		Other	Liquified	Feed or Blending	Total
		100 Octane	Other Grade	Spirit	Spirit	Oil	ising Oil	Diesel Oil	(All Grades)		Bitumen	Finished Products	Petro- leum Gas	Stocks for Transfer	(All Products)
1. Opening Stocks 1st January, 1958	1,624,699	22,161	150,703	1,164,113	3,917	51,418	204,789	776,827	967,386	506	33,695	82,613	981	404,315	3,863,42
2. CRUDE OIL PRODUCTION INCLUDING CASING HEAD PETROLEUM SPIRIT	37,586,449	_	_		_						_	_	_		_
3. Imports: Venezuela Colombia Other Countries	. 17,798,347 1,640,911 6,089,656	_ _ _	' '			 2,522		_ 1,697,828	<u>-</u> 30,158	<u>-</u>				— —	 1,904,84{
TOTAL IMPORTS	25,528,914			173,613		2,522		1,697,828	30,158			727	_	-	1,904,848
4. Run to Stills	60,255,937	-	_		_	_					<u> </u>	_	_	-	
5. Production Obtained		481,657	2,894,659	10,500,864	57,439	1,089,341	1,984,944	12,476,661	25,475,602	2,026	246,359	3,736,211	28,456	61,823	59,036,062
6. Consumption: Trinidad and Tobago Bunkers Refinery Fuel	. –	70,823		778,816	848 — —	267,816 — —		298,763 2,964,279 —		<u> </u>	2,371 —	166,297	18,410 —	11,822 —	1,988,178 11,201,218 11,918
TOTAL CONSUMPTION	. 46,392	70,823	109,071	778,816	848	267,816	_	3,263,042	8,509,924	2,058	2,371	166,297	18,410	11,822	13,201,298
7. Shipments: Sterling Area North America Other American Countries	2,100,154	79,767	42 3,39 5	4,439,783	38,895	365,597	1,602,937	1,593,161 —	743,550 —	- -	220,433	175,156	10,741	118,715	9,812,130
Western Hemisphere O.E.E. Countries Rest of the World		296,878 $5,825$ $9,153$	200,636 2,123,808 4,662	857,840	11,150 —	309,152 97,900 7,611	461,327 —	3,237,476 $2,021,022$ $3,701,308$	4,727,819	-	21,614 10,616	2,803,747 526,677 74,872	_ _ _	_ _ _	17,321,336 10,843,984 9,412,636
TOTAL SHIPMENTS	. 2,100,154	391,623	2,752,501	10,049,919	50,045	780,260	2,064,264	10,552,967	16,785,930		252,663	3,580,452	10,741	118,715	47,390,080
8. Closing Stocks 31st December, 1958	. 2,164,545	41,372	183,790	1,009,875	10,463	95,205	125,469	1,135,307	1,177,292	474	25,020	72,802	286	335,601	4,212,950
9. BALANCE NOT SPECIFICALLY ACCOUNTED FOR	. 173,034	_	_	_	-	_	_		_	.—		_	_		_

Imports of Tucupita Fuel Oil for Transhipment amount to 1,896,083 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 THE REVENUE OF TRINIDAD AND GOVERNMENT OPERATED SERVICES (Marketing Companies not included)

Item	Head or Sub-Head	1958	% difference 1958/57	1957	1956	1955	1954	1953	1952	1951	1950	1949	
	Crown Royalties, Taxation, Etc.	\$	\$	\$	\$. \$	8	* \$	\$	\$	\$	\$	
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Customs Excise Duty on Petroleum Spirit	183,331 250,815 170,721 36,818,288 82,042 21,077 79,365 16,101,883 111,748 137,835	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,267,204 129,093 209,973 130,267 27,666,940 11,525 50,726 61,214 13,945,903 111,394 157,505 1,273 1,016,102 45,759,146	1,371,241 122,243 203,086 134,227 19,630,291 50,025 61,466 38,857 10,227,905 94,016 156,295 5,549 1,136,310 33, 231,511	1,097,527 124,304 200,413 137,441 18,827,104 50,546 33,013 32,456 8,706,169 91,096 140,206 3,437 953,586 30,397,298	$\substack{1,270,440\\136,257\\199,263\\85,439\\14,692,510\\40,613\\11,470\\30,797\\8,231,840\\72,417\\138,594\\5,687\\872,334\\25,787,661}$	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	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	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	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	$1,238,426\\36,910\\84,754\\69,371\\13,292,777\\24,611\\5,045\\64,386\\3,596,251\\74,217\\38,715\\3,864\\585,901\\19,115,228$	19
	VARIOUS SERVICES	•				·							
15 16 17 18 19 20 21	Wharves and Harbours (Rentals, &c.) Post Office Rent of Government Property Government Railway and Telegraph Fees and Payments for Specific Services Sub-Totals Items 15–19 GENERAL TOTAL	38,631	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	93,102 58,509 17,774 140,469 44,988 354,842 46,113,988	74,846 48,496 15,287 112,900 47,215 298,744 33,530,255	58,347 52,490 16,811 104,698 23,742 256,088 30,653,386	92,493 47,559 12,175 125,726 29,578 305,531 26,093,192	82,279 45,613 10,320 119,097 35,258 292,567 25,590,715	74,499 50,154 10,732 165,312 29,609 330,306 26,574,942	37,029 43,140 9,523 151,930 22,600 264,222 22,414,050	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	
A.	Total Revenue of Territory and Government Operated Services	130,031,962	+ 17.2	110,954,729	96,951,614	89,991,040	80,154,136	74,535,864	73,013,672	65,215,814	56,038,019	58,391,567	
в.	Percentage of "A" contributed by the Oil Industry	44.7	+ 7.7	41.5	34.6	34.1	32.6	34.3	36.4	34.4	30.1	33.1	
c.	Percentage of "A" less Items 13, 15 and 18 contributed by the Oil Industry	47.0	+ 11.9	42.0	36.1	36.0	34.0	36.1	38.3	36.3	31.9	36.5	
D.	Excise collected on Gasoline and Propane (including duty shown under Item 2 above	4,959,941	+ 108.3	2,381,018	2,186,203	1,985,082	1,891,322	1,714,221	1,560,225	1,454,567	1,367,860	2,394,109	

^{*} This is a fictitious increase arising out of the fact that most of the 1957 Contributions was paid into the Treasury a year late.

TABLE VII

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

									* * *, .		
HEAD AND SUB-HEAD	1958	% difference 1957/58	1957	1956	1955	1954	1953	1952	1951	1950	1949
	8	s	\$	8	\$	\$. 8	\$	\$	\$	\$
Moneys Earned and Payable in the Territory											
I. Total Contribution to Government Revenues (Item 21, Table VI)	58,132,615	+ 26.1	46,113,988	33,530,255	30,653,386	26,093,192	25,590,715	26,574,942	22,414,050	16,875,640	19,315,232
2. Payments to Employees*	41,450,305	+ 10.4	37,552,026	35,700,911	34,557,926	31,040,008	29,164,141	24,743,598	20,918,670	18,839,945	17,081,804
3. Payments to Contractors*	23,898,821	+ 40.0	17,069,310	13,042,638	10,643,977	9,465,908	7,439,632	7,604,548	7,527,758	6,125,164	4,488,089
4. Local Purchases of Materials	9,040,923	1.8	9,210,891	8,116,298	7,217,873	7,026,657	5,862,292	5,662,114	4,837,764	3,946,065	4,336,776
5. All other Local Expenditure (Rents, Private Royalties, &c.)	13,049,813	- 36.8	20,655,539	15,470,566	13,819,910	13,220,262	11,527,727	13,095,125	10,361,590	8,456,079	7,080,430
6. Sub-Total	145,572,477	+ 11.5	130,601,755	105,860,668	96,893,072	86,846,027	79,584,507	77,680,327	66,059,832	54,242,893	52,302,331
Overseas Purchases of Materials (C.I.F. Valuation)			,								
7. Importations from the United Kingdom	36,231,825	2.6	37,197,160	23,994,740	24,760,317	23,833,618	23,439,951	22,888,622	17,208,825	14,690,802	14,161,158
Canada	861,020	- 19.2	1,065,175	1,275,812	930,113	1,143,337	1,065,818	927,095	944,464	724,216	516,130
United States of America	6,201,404	+ 5.8	5,859,427	5,394,161	5,184,603	3,651,034	4,329,858	6,217,177	3,401,644	5,469,200	7,766,696
Other Sources	6,383,844	+ 106.6	3,090,064	2,008,580	425,181	1,594,177	2,032,287	1,432,977	773,214	947,512	1,012,427
8. Sub-Total	49,678,093	+ 5.2	47,211,826	32,673,293	31,300,214	30,222,166	30,867,914	31,465,871	22,327,947	21,831,730	23,456,411
9. General Total	195,250,570	+ 9.8	177,813,581	138,533,961	128,193,286	117,068,193	110,452,421	109,146,198	88,387,779	76,074,623	75,758,742

^{*}These amounts include hidden contribution to the direct revenue of the territory in the form of Customs Duties, Income Tax, Licences, &c.

TABLE VIII

LIST OF OIL OPERATIONS IN TRINIDAD SHOWING THE AREA HELD UNDER MINING LEASE AND EXPLORATION LICENCES

		Lands held under Exploration Licence		Ollrights he	LD UNDER REGISTERE	D MINING LEASE OR M	IARINE LICENCE	
Item	Companies	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	Antilles Petroleum Company (Trinidad) Ltd. Holdings as 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings sat 31.12.58		18,855 2 10 18,855 2 10	5,968 0 35 5,968 0 35	22,713 3 39 22,713 3 39	15,344 0 00 15,344 0 00		62,881 3 04 62,881 3 04
2	AFEX TRINIDAD OILFIELDS LIMITED Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58		31,324 2 10 31,324 2 10	22,313 2 00 22,313 2 00	9,591 0 35 915 3 04 11 3 14 10,495 0 25			63,229 1 05 915 3 04 11 3 14 64,133 0 35
3	Dominion Oil Limited Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58		143,963 1 11 0 3 36 85,933 2 26 50,030 2 21	29,804 1 16 1,707 3 29 15,396 0 02 16,116 1 03	119,788 0 00 64,156 0 00 55,632 0 00	191,330 0 00 	352,652 0 00 	837,537 2 27 1,708 3 25 261,155 2 28 578,090 3 24
4	JONES PETROLEUM COMPANY Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58			18 0 12 18 0 12				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
5	KERN TRINIDAD OILFIELDS LIMITED Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58		$egin{array}{cccccccccccccccccccccccccccccccccccc$	619 1 06 	8,748 2 00 8,748 2 00	5,760 0 00 5,760 0 00		15,475 1 29 15,475 1 29
. 6	PREMIER CONSOLIDATED OILFIELDS LIMITED Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58	i	10,718 2 09 — — — — 10,718 2 09	2,640 1 13 — — — 2,640 1 13	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

TABLE VIII—CONTINUED

LIST OF OIL OPERATIONS IN TRINIDAD SHOWING THE AREA HELD UNDER MINING LEASE AND EXPLORATION LICENCES—Continued

Item		LAND HELD UNDER EXPLORATION LICENCE		Oilrights held under Registered Mining Lease or Marine Licence					
	COMPANIES	Crown Surface Crown Oilrights	Crown Surface Crown Oilrights	Crown Surface Crown Oilrights	Private Surface Private Oilrights	Territorial Waters	High Seas Areas	TOTAL	
		A. R. P.	A. B. F.	A. R. P.	A. R. P.	A. R. P.	A. R. P.	A. B. P.	
7	TIMOTHY ROODAL Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58			$\begin{array}{cccccccccccccccccccccccccccccccccccc$				$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
8	TRINIDAD CENTRAL OILFIELDS Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58		6,996 2 31 6,996 2 31		35 2 00 35 2 00			7,032 0 31 7,032 0 31	
9	TRINIDAD NORTHERN AREAS LIMITED Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58		$\begin{array}{cccccccccccccccccccccccccccccccccccc$		85 0 35 85 0 35	147,723 0 00 	83,434 0 00 83,434 0 00	231,275 0 28 	
10	TEXACO TRINIDAD INCORPORATED Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58		106,093 1 33 18,855 2 10 124,949 0 05	*27,463 0 19 5,968 0 35 33,431 1 14	*9,126 9 32 24,835 0 05 23,296 3 31 351 2 18 *9,126 0 32 47,780 1 18	15,344 0 00 15,344 0 00		"9,126 0 32 158,391 2 17 63,464 2 36 351 2 18 *9,126 0 32 221,504 2 35	
11	TRINIDAD PETBOLEUM DEVELOPMENT COMPANY LIMITED Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58	ł .	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20,955 3 01 130 3 33 21,086 2 34	134,000 0 00 134,000 0 00	91,000 0 00 91,000 0 00	283,363 1 16½ 248 2 21 283,611 3 37½	
12	SHELL TRINIDAD LIMITED Holdings as at 1.1.58 Holdings acquired during 1958 Holdings surrendered during 1958 Holdings as at 31.12.58		76,569 3 11 	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	*549 3 18 10,441 3 04 71 1 36 9 2 11 10,503 2 29 (1) 549 3 18				

⁽¹⁾ Acreages held jointly by T.T.I. and S.T.L.

^{*}This includes 57 acres, 2 roods, 06 perches in name of T.T.I. but held jointly by S.T.L. and T.T.I.

TABLE IX

IMPORTANT EXPLORATION AND OUTSTEP WELLS DRILLED DURING 1958

Company	Field and Well No.	Total Depth (Feet)	Remarks				
Apex (Trinidad) Oilfields Limited	Hyzabad 642 do 647 do 652 do 658 do 659	8,212 8,305 8,155	L. Cruse. Southern extension of Synclinical field L. Cruse. Northern exploitation of Synclinical field L. Cruse. Outstep along strike east of W. 642 L. Cruse. Southern outstep from W. 652 Extension of Synclinical field to the South L. Cruse. Northern outstep on North flank Anticline	G—2 G—2			
	do 661 do 662 do 663	3,732	L. Cruse. Northern outstep of North flank Anticline	1 0 0			
Dominion Oil Limited	Colenso 3B do, 3A do 4 Couva Marine 1A Domoil High 1	7,091	Nariva test—abandoned	L5 L5 G6 C6			
	South Saza 1 North Brighton 1 Freeport Brickfield	10,929	Nariva test abandoned	F-4			
Kern Trinidad Oilfields Limited	. Guapo C.F. 636	4,622	Nariva Sds. Successful coastal outstep North of the Guapo field	E3			
Premier Consolidated Oilfields Limited	. Rock Dome 2 X	8,135	Exploration of North flank of Southern Range in Karamat and Herrera-abandoned	J2			
Shell Trinidad Limited	Penal 238 do 239 do 240 do 241	10,586	Herrera test; Sands wet—abandoned	G—2 H—2 H—2 H—2			
	Catshill 82 do. 83 do. 84 do. 85	10,019	Karamat test—suspended	K—3 L—3 L—3 K—3			
g adversion of the second of t	Inniss	4,982	Eastern outstep—producer	L-4 L-4			

TABLE IX—CONTINUED

IMPORTANT EXPLORATION AND OUSTED WELLS DRILLED DURING 1958—Continued

Company	Field	and Well No.	Total Depth (Feet)	Remarks	Map Reference Appendix I
Texaco Trinidad Inc	Guayaguayare do. do. do.	249 249 X 263 265	6,235	Exploration of Lizard Springs anticline; Sands wet—abandoned Up dip deviation from W. 249; Sands wet—abandoned Cretacious exploration midway between Beach and Goudron fields Exploration of South flank of Galeota anticline	M—2 M—2
	Barrackpore	372	10,263	Eastward extension of Barrackpore field in Herrera	J3
· Market Sec. · And the second of the second	Quinam	28	4,998	Exploration of South flank of Southern range anticline. Sands wet abandoned	H—I
	Palo Seco	112	7,940	Southerly Cruse outstep of Grande Ravine field	F1
	do.	113	8,000	Westerly Cruse outstep of Grande Ravine field	F2
Trinidad Petroleum Development Company Limited	Palo Seco	418	11,788	Herrera test South of Los Bajos fault; abandoned—caving shales. Completed as outstep in Cruse	M2
	do.	441	6,150	L. Cruse outstep Producer	F1
	Los Bajos do. do.	59 60 61	11,147	Cruse test—wet; completed in Forest Sands Unable to test in Herrera for mechanical reasons—now testing in Miocene L. Cruse outstep in East Los Bajos	F—2 G—2 G—2
	Quarry	204	7,600	Tested poorly developed Cruse Sds. in North Quarry. Testing forest sands	G—2
The state of the s	Coora do.	251 253		Successful West Penal deep Herrera outstep in N.E. Coora Field L. Cruse outstep in the Central Coora Field	H2 G2
	Moruga North	56	3,900	Tested unproductive Herrera Sds. in West end of Moruga North Field. Abandoned	J2
	do. West do. West do. East do. East	64 68 61 65	3,780	S.W. outstep of Moruga West Field—productive in Herrera N.E. outstep of Moruga West Field—Herrera wet, Abandoned L. Cruse outstep in Moruga East Field L. Cruse S.E. outstep in Moruga East Field. Shallow prospects	I2
Trinidad Northern Areas Limited	Soldado	14	7,500	Northern outstep of Soldado field	В3
	do.	15	6,800	Eastern outstep of Soldado field	B2

1/2

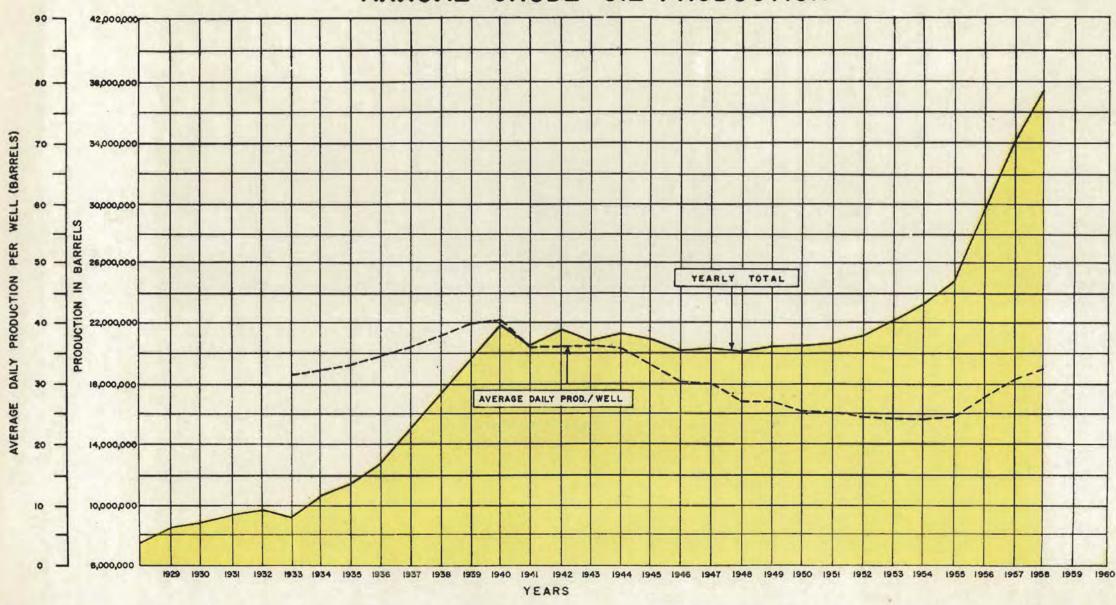
TABLE X

SUMMARY OF CROWN (ROYALTY) CRUDE OIL ASSESSED OR SOLD WITH PRICES AND ANALYSES

(For Hall-Yearly Assessment Periods ended 30th June and 31st December, 1958)—1 Barrel=34,9726 I.G.

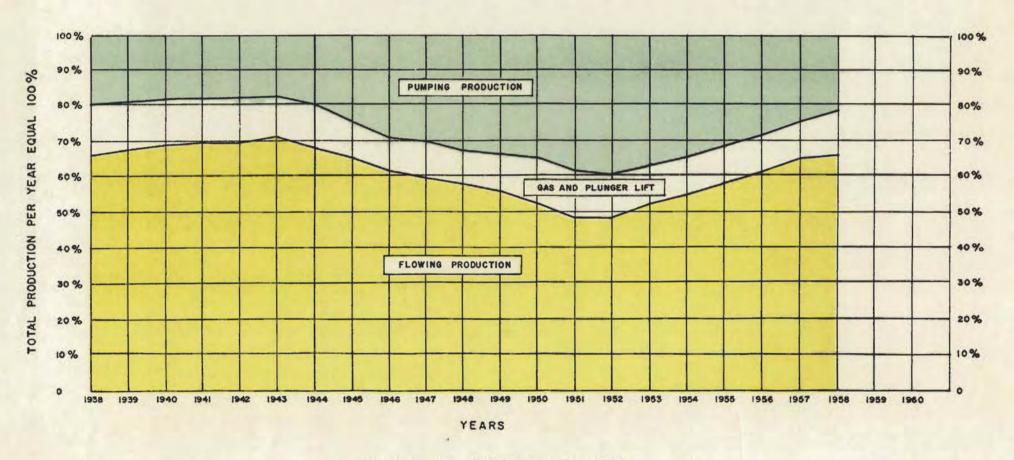
		· · · · · · · · · · · · · · · · · · ·	(For Half-Yearl	y Assessment l	Periods ended	30th June and	31st December,	1958)—1 Barr	$el = 34.9726 \ I.6$	9.					
	į	ROYALTY SUB-DIVISION OF (ROYALTY) CRUDE INTO PRODUCTS AS PER R.I.E.I. ANALYSES													
					LIGHT FRACTIONS		GAS OILS			TOTAL GAS OILS			FUEL OIL		
COMPANY	Net Royalty on Production	10% Assessed or taken in kind and sold to Producer	Value	Average Price per Barrel	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	Quantity	Percentage	Quantity	Percentage
	Bbls.	Bbls.	\$ c.	\$ c	Bbls.	1	Millilitres	Bbls.	Bbls.	Bbls.	Bbls.	Bbls.	1	Bbls.	<u> </u>
HALF-YEARLY ASSESSMENT PERIOD ENDED 30TH JUNE															
Antilles Petroleum Company (Trinidad) Ltd	1,382,190	138,219	640,082 42	4 63	35,281	25.5	1,394,153	-	19,607	_	17,516	37,123	26.9	65,815	47.6
Apex (Trinidad) Oilfields Limited	871,943	87,194	387,925 05	4 45	11,645	13,3	55,915	-	_	_	27,250	27,260	31.3	48,289	55.4
Dominion Oil Limited	1,852	185	. 899 55	4 86	26	14.1	511	_	90	_		90	48.6	69	37.3
Kern Trinidad Oilfields Limited	213,432	21,344	80,554 74	3 77	1,733	8.1	35,090	331	_	_	-	331	1.6	19,280	90.3
Premier Consolidated Oilfields Limited	66,303	6,630	30,707 98	4 63	1,533	23.1	22,246		-	_	1,964	1,964	29.6	3,133	47,3
Estate of Timothy Rondal	2,098	209	877 87	4 20	5	2.4	_	_		_	65	65	31.1	139	66.5
Shell Trinidad Limited	3,524,962	352,496	1,645,164 30	4 67	75,950	21.5	2,475,024	68,036	29	37,122	4,742	109,935	31.2	166,611	47.3
Trinidad Central Oilfields Limited	814,306	81,431	373,123 29	4 58	21,605	26.5	505,891	_	3,473	_	15,298	18,771	23.1	41,053	50,4
Trinidad Northern Areas Limited	754,649	75,465	355,271 84	4 71	17,996	23.8	689,298	_	23,625	_	_	23,685	31.3	33,844	44.9
Trinidad Petroleum Development Company Limited	2,281,785	228,179	1,018,921 90	4 47	18,137	16.7	675,260		8,211	6,006	49,874	64,091	28.1	123,951	55.2
Texaco Trinidad Inc	5,476,643	547,644	2,436,919 64	4 45	87,477	16.0	951,930	_	428	21,931	131,733	154,092	28.1	308,095	55.2
TOTALS AND AVERAGES FOR FIRST HALF YEAR	15,390,138	1,539,016	6,970,439 58	4 53	291,388	18.9	6,805,316	68,367	55,463	65,083	248,432	437,347	28.4	210,281	58.7
Half-yearly Assessment Period Ended 31st December				,											
Antilles Petroleum Company (Trinidad) Ltd.				In Vol	, untary Liquid	ation as from	27th June, 195	8. Now	included unde	r Texaco Trin	idad Inc.				
Apex (Trinidad) Oilfields Limited	817,987	81,799	357,414 29	4 37	10,099	12.3	80,493	_	_	_	25,821	25,821	31.6	45,879	56.1
Dominion Oil Limited						No pr	 	 ned during the	period.						
Kern Trinidad Oilfields Limited	223,954	22,395	78,909 31	3 52	1,715	7.7	33,753	290		-	_	290	1.3	20,390	91.0
Premier Consolidated Oilfields Limited	67,476	6,748	29,120 34	4 32	1,045	15.5	14,621	_	_	578	1,148	1,726	25.6	3,977	58.9
Estate of Timothy Roodal	1,486	149	607 39	4 08	4	2.7		_		_	46	46	30.9	99	66.4
Shell Trinidad Limited	3,338,455	333,845	1,537,320 59	4 60	60,463	20.5	2,046,804	60,187	9,076	32,547	216	103,026	30.6	163,356	48.9
Trinidad General Oilfields Limited	813,801	81,380	371,447 37	4 56	82,724	27.9	533,285	_	4,246	_	13,944	18,190	22.4	40,466	49.7
Trinidad Northern Areas Limited	1,226,427	122,643	572,874 09	4 67	31,434	25.6	1,377,437	_	_	35,173	_	35,173	28.7	56,016	45.7
Trinidad Petroleum Development Company Limited	2,636,163	263,616	1,172,032 01	4 45	48,801	18.5	955,020			20,209	53,201	73,410	27.9	141,405	53.6
Texaco Trinidad Inc	7,633,602	763,360	3,383,610 61	4 43	142,080	18.6	2,425,745	_	22,656	19,826	164,067	206,549	27.1	414,731	54.3
TOTALS AND AVERAGES FOR SECOND HALF YEAR	16,759,351	1,675,935	7,503,327 20	4 43	326,385	19,5	7,467,178	60,477	35,978	108,333	258,443	463,231	27.6	886,319	52.9
YEAR'S TOTALS AND AVERAGES	32,149,509	3,214,951	14,473,766 78	4 50	617,773	19.2	14,272,496	128,844	91,441	173,398	506,895	900,578	28.0	1,696,600	52.8

ANNUAL CRUDE OIL PRODUCTION

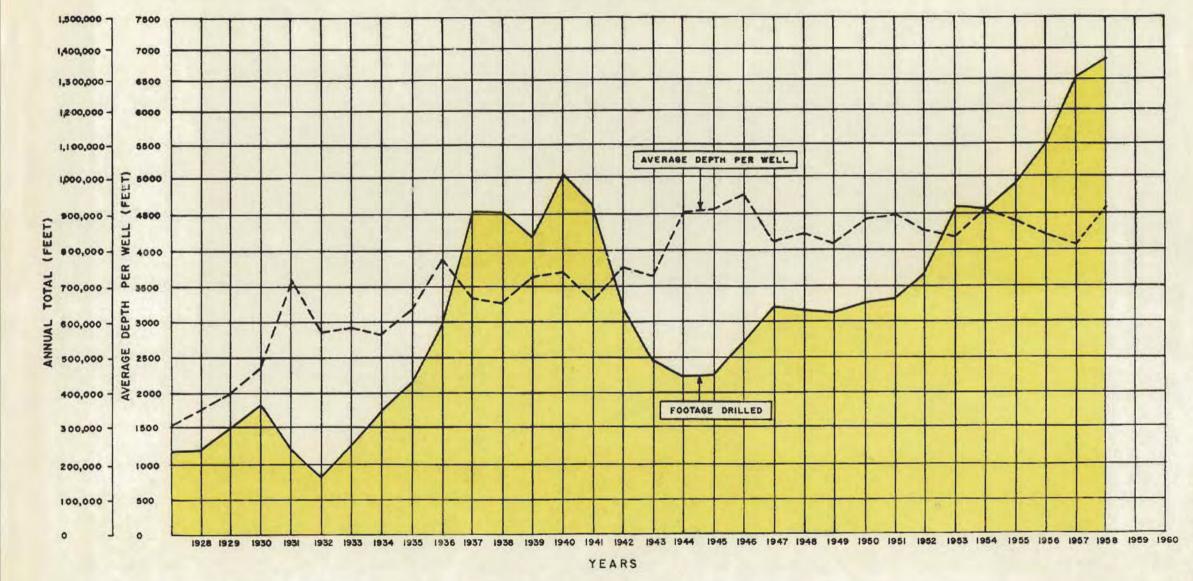


CRUDE OIL PRODUCTION METHODS

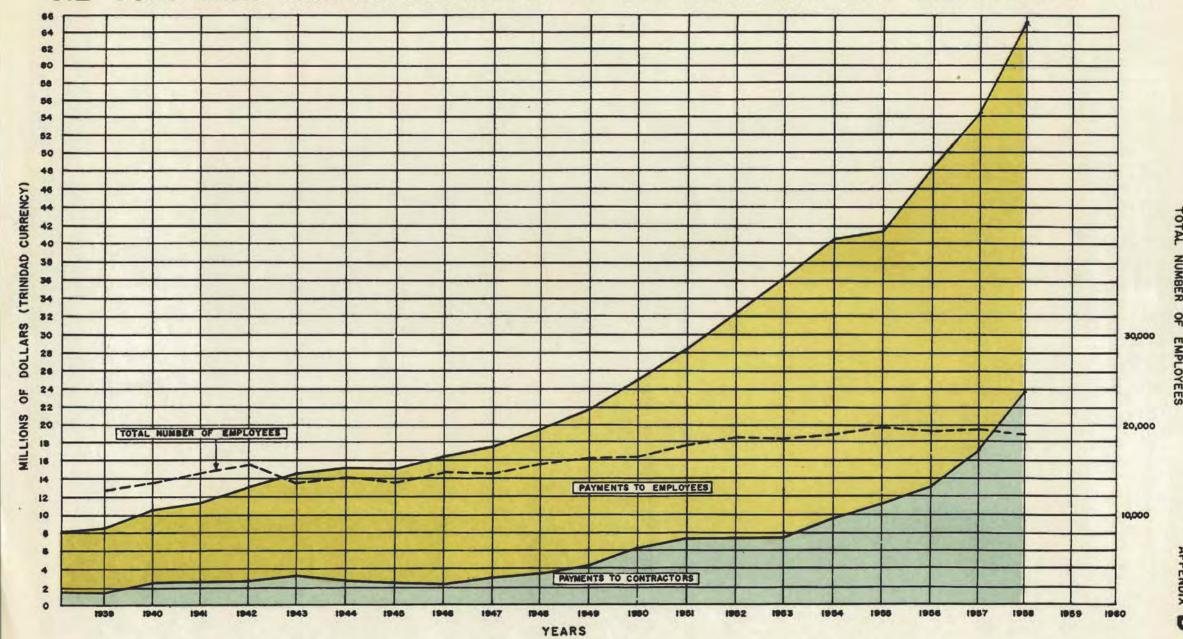
RELATIVE PROPORTIONS OF ANNUAL PRODUCTION (100%) OBTAINED BY THE THREE PRINCIPAL PRODUCING METHODS



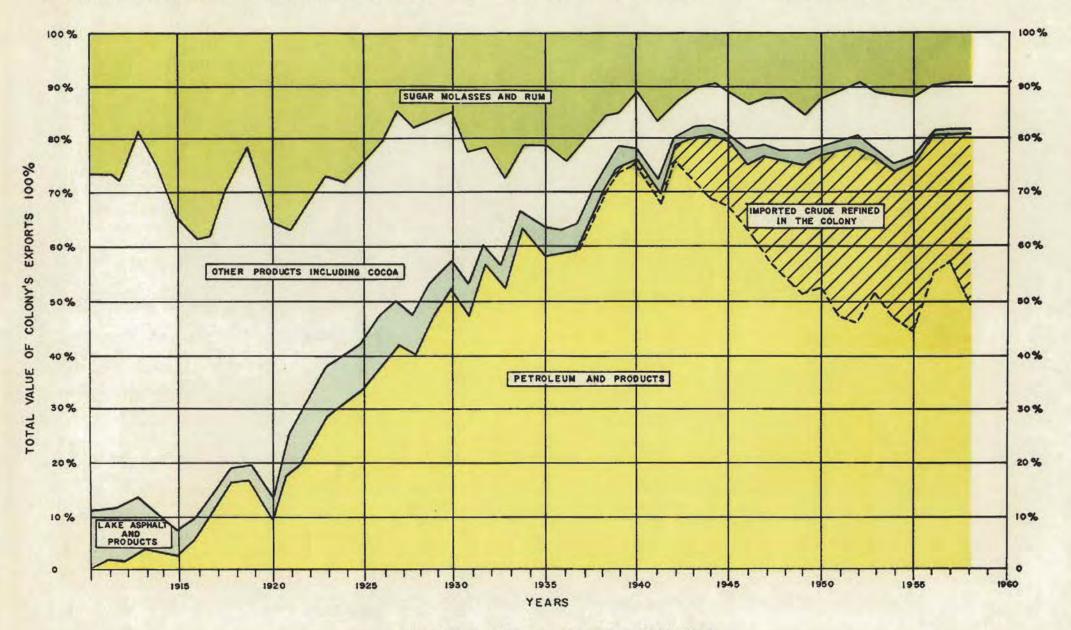
ANNUAL DRILLING FOOTAGE



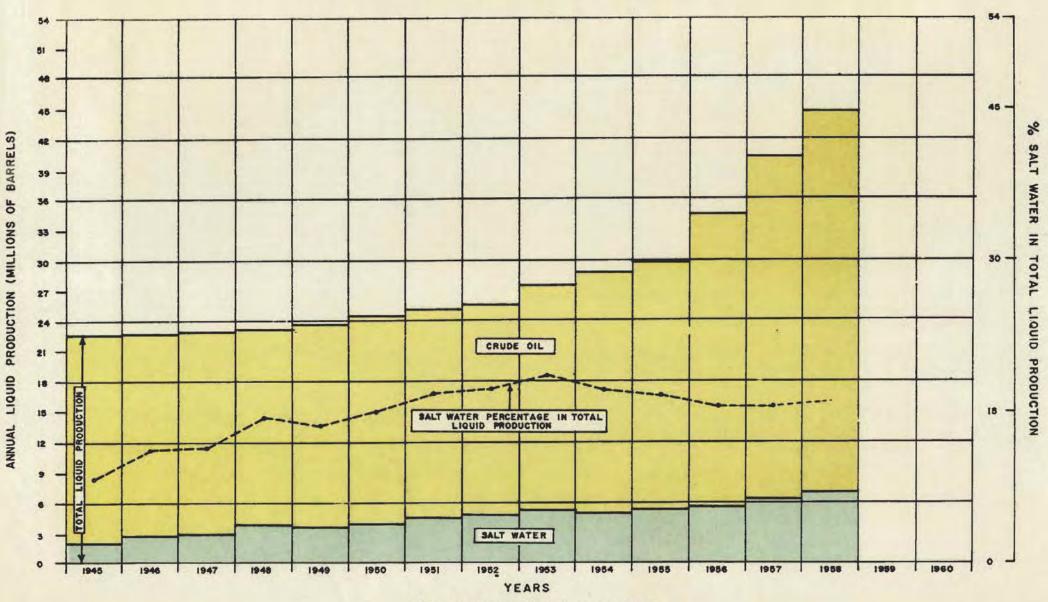
OIL COMPANIES ANNUAL PAYMENTS TO CONTRACTORS AND EMPLOYEES



PERCENTAGE DISTRIBUTION OF TOTAL VALUES OF COLONY'S EXPORTS



PRODUCTION OF SALT WATER



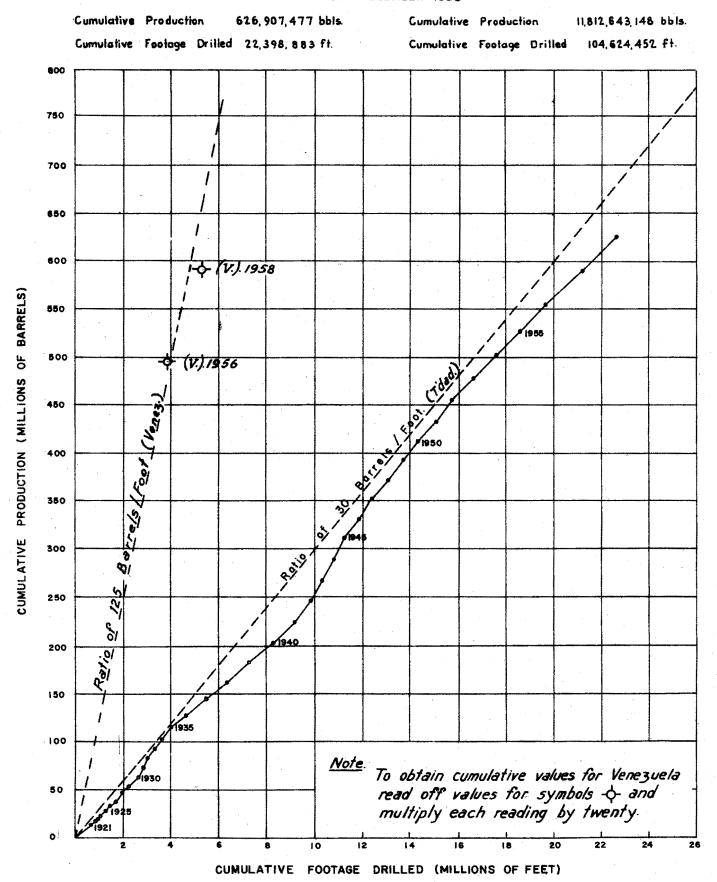
See table III for 1958 figures in detail

CUMULATIVE PRODUCTION & FOOTAGE FOR TRINIDAD

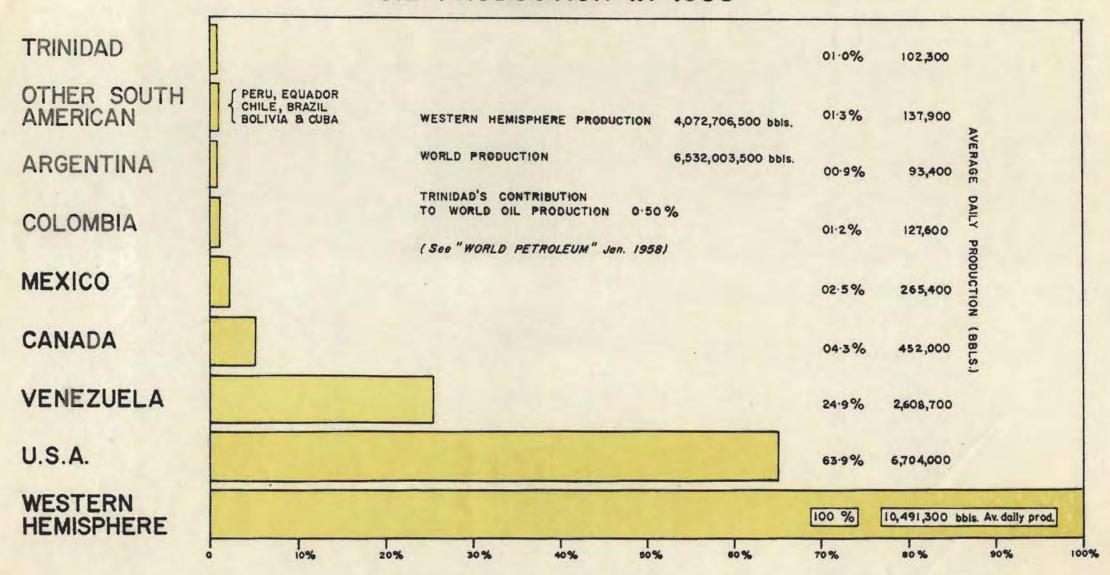
& Comparable data for Venezuela for period 1956-1958.

FOR TRINIDAD FOR VENEZUELA

TO 31st DECEMBER 1958



TRINIDAD'S CONTRIBUTION TO WESTERN HEMISPHERE OIL PRODUCTION IN 1958



ARPENDIX

GOVERNMENT PRINTING OFFICE, TRINIDAD, W.I.—1960

[Price 50c.]

Trinidad-A. 20/60

~