Council Paper No. 30 of 1933.

MINES DEPARTMENT.

Administration Report of the Inspector of Mines for the year 1932.

Laid before the Legislative Council on the 7th of April, 1933.

Previous Council Paper No. 50 of 1932.

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MINES DEPARTMENT.

Administration Report of the Inspector of Mines for the year 1932.

Council Paper No. 30 of 1933.

M.P. No. 15476.

HONOURABLE COLONIAL SECRETARY,

I have the honour to submit, for the information of His Excellency the Governor, the following report on the work of the Mines Department for the year 1932.

2. Since the year 1920 there has been a steady increase in the Colony's production of crude oil and I am pleased to be able to record that this increase has continued during the period under review, the production during 1932 being the highest yet recorded, viz.: 10,126,065 barrels compared with 9,743,502 for the previous year. It is not generally realised to what proportions the mineral industry of the Colony has grown during recent years, but the fact that petroleum products and asphalt formed 56.80 per cent. and 3.14 per cent. respectively, or a total of practically 60 per cent., of the total exports shows the importance of these industries to the Colony.

In common with other industries the oil industry of the Colony during the past year has suffered from the financial conditions which are prevailing throughout the world, and prices obtainable for petroleum products in the world's markets have continued to be low though in certain cases companies which have entered into sales contracts for their products based on prices ruling in the United States of America have benefited from the rate of exchange since the departure

of Great Britain from the gold standard.

In my last report I mentioned that a number of companies had found it necessary to curtail drastically their operations and that in 1931, 218,642 feet were drilled compared with 372,530 feet in 1930. During the period under review drilling operations have been further curtailed in that only 173,287 feet were drilled.

3. In connection with the growth of the industry it is interesting to note that during the last decade the production has more than quadrupled, the production for the year 1922 being 2,444,751 barrels.

There has been a considerable increase not only in the value but also the volume of petroleum products exported during 1932 as compared with 1931,

the figures being as follows:—

1931—8,964,304 barrels valued at £1,949,455 1932—9,637,474 do. ... £2,382,846

From this it will be seen that the average value per barrel of these products was 4s. 11½d. in 1932 as compared with 4s. 5½d. in 1931; it is, however, regrettable that this value is still much below the figure of 7s. 3¼d. returned to the Customs Department in respect of exports for the year 1930.

The value of the exports of the leading staples of the Colony during 1932

is shewn below:—

						Value €	Percentage of Total.
Petroleum	Products					2,382,846	56.80
Sugar, Mol				•••		888,092	21.17
Cocoa			***	***		579,170	13.80
Asphalt			***	***		131,651	3.14
Coconuts,	Copra and	d Coconu	t Oil			106,786	2.54
Coffee	*		• •	p		20,822	0.50
Bitters			4.4	4**	***	18,962	0.45
Other expe	orts not ei	numerate	ed	₩ '	4	67,103	1.60
					_	4,195,432	100-00
					-		

4. As I mentioned in my last Administration Report the United British Oilfields of Trinidad, Ltd., had made arrangements for the raising of fresh capital for the purpose of the construction of a new refinery and loading facilities at Point Fortin. These works were commenced, and at the time of writing the

refinery, having a capacity of 1,000 tons of crude oil per 24 hours, is nearing completion. The construction of a pier some 8,500 feet long at which vessels drawing 30 feet of water will be able to load is now in progress, and it is expected will be completed during the year.

The Kern Trinidad Oilfields, Ltd., have also commenced the erection of a refinery designed to treat 1,000 barrels of oil per 24 hours. Apart from the above there has been little of interest to record regarding the construction of

new works during the period under review.

5. The following table will shew the number of feet drilled and the quantity of oil produced during 1932 as compared with the years 1930 and 1931:—

_			NDED 31ST BER, 1930.		ENDED 31ST EMBER, 1931.	Year ended 31st December, 1932.			
		Feet drilled.	Oil won Brls. of 35 galls.	Feet drilled.	Oil won Brls. of 35 galls.	Feet drilled.	Oil won Brls. of 35 galls.		
Crown Lands Private Lands		254,116 118,414	5,260,366 4,158,541	138,382 80,260	5,325,743 4,417,759	111,730 61,557	5,610,901 4,515,164		
	372,5		9,418,907	218,642	9,743,502	173,287	10,126,065		

- 6. During the year 61 wells were drilled of which 41 were on Crown Lands and 20 on private lands, an increase of one as compared with 1931. In 46 of these wells oil was struck. The total number of wells drilled in the Colony to 31st December, 1932, was 1,902 of which 1,197 were on Crown Lands.
- 7. At the close of the year 16 concerns were actively engaged in the winning of oil as against 14 at the end of 1931.
- 8. ROYALTY.—The royalty collected in respect of oil won from Crown Lands during the period under review shewed a considerable increase over that during 1931, the figures being £90,053 7s. 4½d. compared with £84,546 14s. 10½d. during 1931.
- 9. Wayleaves.—The revenue collected under this head amounted to £2,619 17s. 1½d., of which £184 4s. 7d. was for oil pumped along the Trinidad Government Railway. In 1931 £6,420 13s. 1d. was collected.
- 10. FEES.—Fees charged for crossing the Foreshore, the Trinidad Government Railway and public roads amounted to £414.
- 11. LICENCES.—No new leases or licences were issued during the year but the following extensions were granted:—
 - Prospecting Licence to Apex (Trinidad) Oilfields, Ltd., Registered No. 4159 of 1928 was further extended to 31st December, 1933 by Deed Registered No. 5021 of 1932.
 - Prospecting Licence to the Apex (Trinidad) Oilfields, Ltd., Registered No. 1938 of 1930 was extended for one year from 1st July, 1932 by Deed Registered No. 3004 of 1932.
 - Prospecting Licences to the Trinidad Petroleum Development Company, Ltd., Registered Nos. 2716 of 1928, 1186 of 1929, 3916 of 1929 and 3177 of 1930 were further extended to 31st December, 1933.
 - Prospecting Licence to the Siparia Trinidad Oilfields, Ltd., Registered No. 1742 of 1929 was further extended for one year from 1st May, 1932 by Deed Registered No. 2703 of 1932.
- 12. Returns.—The various oil companies have regularly forwarded to the Department the returns required to be submitted by them in respect of their operations. After being carefully checked, these have been filed with the records of the Department.
- 13. A large number of inspections have been carried out by the officers of the Department in connection with the various operations taking place on the fields, and I have much pleasure in reporting that the Managers readily co-operated with the Department in endeavouring to carry out the provisions of the Ordinances and Regulations.
- 14. No new legislation affecting the petroleum industry was passed during the year.

SAN FERNANDO BRANCH OF THE DEPARTMENT.

15. A report by the Petroleum Technologist on the working of his branch is enclosed at Appendix "B".

PREVENTION OF ACCIDENTS ORDINANCE, CAP. 157.

16. In general the Owners and Managers co-operate satisfactorily with the Department in ensuring safety to the workmen in their employment. During the period under review 172 factories in Trinidad and Tobago were worked. It is interesting in this connection to note that during the last year or two a considerable number of small factories employing less than half a dozen hands have been established.

QUARRIES.

17. From inspections made the various quarries in the Colony have, on the whole, been found to have been worked in a careful manner, the number operated during the period under review being 77 as compared with 79 during 1931.

PETROLEUM ORDINANCE, CAP. 145.

18. Five hundred and forty-nine licences to store and sell petroleum products were issued during the year. It is satisfactory to note that as a rule care is taken in petrol service stations to ensure safety.

APPENDICES.

- 19. Appendix "A" shows the list of oil companies operating in the Colony during the year 1932.
- 20. Appendix "B" is the Report on the working of the Petroleum Office, San Fernando.
- 21. In Appendix "C" will be found the daily average number of persons employed in oilfields and quarries and the quantity and value of minerals obtained during the period under review.
- 22. A comparative statement of the oil produced and exported is shown in Appendix " \bar{D} ".
 - 23. Appendix "E" shows the amount of oil refined year by year.
- 24. Appendix "F" consists of a series of charts depicting in graphical form the progress made in various industries during the past few years.
- 25. Appendix "G" shows the relation of mineral exports to agricultural exports.

STAFF.

26. I have great pleasure in recording the very able and loyal assistance I have received from the members of the staff.

A. P. CATHERALL, Inspector of Mines.

18th March, 1933.

APPENDIX A.

No.	Companies.	Nature of tenure of lands on operations took place.	which Disposal of oil.	Remarks.
1	Trinidad Leaseholds, Ltd	Crown lands under Fyzabad, lease and Guay Private lands Fyzabad a Barrackpo	aguayare at Pointe-a-Pierre, and there and refined. Most of the production	Whilst this Company has the second largest production it continues to be the most important one in the Colony from the point of view of marketing and refining. The major part of the Company's production continues to be obtained from its various holdings in the Fyzabad area; drilling operations in this area have been increased during the year with a resultant increase in production. Some drilling has been done at Barrackpore but the production has slightly declined. Development has continued on the Company's holdings at Guayaguayare and the production has considerably increased.
2	United British Cilfields of Trinidad, Ltd.	Crown lands under Morne L'E lease Reserve	nfer Sold to United Butish Refineries, Ltd.	This Company has confined its operations to the Parry Lands area where the production has fallen slightly. There has been under construction during the year a new refinery and new shipping facilities.
3	Trinidad Centval Oilfields, Ltd	Crown lands under Tabaquite, lease Lizard Sp	Guapo and Production from Tabaquite and rings Lizard Springs refined, sold locally and exported; that from the Cruse field sold to the Trinidad Leaseholds, Ltd. and United British Refineries, Ltd.	been maintained but drilling has been suspended on the Cruse field and the production has greatly
4	Trinidad Lake Petroleum Company, Ltd	Private landsBrighton	The bulk of the production is exported to the United States of America	Producing only.
5	Petroleum Development Company, Ltd.	Crown lands under Morne L'E lease Reserve a	nfer Forest Sold to Trinidad Lake Petroleum and La Brea Company, Ltd.	No drilling has been done, production has decreased.
6	Apex (Trinidad) Oilfields, Ltd.	Crown lands under Fyzabad at lease and prospecting license and private lands	nd SipariaCrude oil sold to Trinidad Lease- holds, Ltd.; Casing Head Petroleum Spirit sold to United British Refineries, Ltd.	
7	Kern Trinidad Oilfields, Ltd.	Crown lands under La Brea lease Private lands Guapo and		There was a considerable curtailment of footage drilled as compared with 1931 with a decrease in production as a result.

-

		* v			
					· · · · · · · · · · · · · · · · · · ·
8	New Oropuche Trinidad Oilfields, Ltd	Private lands	Fyzabad	Sold to Trinidad Leaseholds, Ltd.	No drilling has been done and the production has slightly decreased.
9	Trinidad Petroleum Development Company, Ltd.	Private lands	Palo Seco, Los Bajos and Santa Flora	Sold to United British Refineries, Ltd.	This Company has again carried on a very active drilling programme in the Palo Seco district and although the footage drilled has not been so great as in 1931 the production has increased.
10	Palo Seco Oilfield (C. C. Stollmæyer)	Crown lands under lease	Palo Seco	Sold to Trinidad Leaseholds, Ltd.	Although drilling has been suspended, the production from existing wells has increased.
Į Į	Trinidad Oil Fields Operating Co., Ltd.		Fyzabad, San Francique and Palo Seco Pointe d'Or and San Francique	Sold to West India Oil Company	Some drilling has been done during the year, and the production has increased.
12'	New Dome Oilfields, Ltd	Private lands	Fyzabad	Sold to Trinidad Leaseholds, Ltd.	This Company has considerably increased its footage but the production has slightly decreased.
13	Siparia Trinidad Oilfields, Ltd	Crown lands under Prospecting License	Palo Seco	Sold to Trinidad Leaseholds, Ltd. and Trinidad Petroleum Develop- ment Co., Ltd.	Both drilling and production have considerably decreased.
:14	Trinidad Freeholds, Ltd	Private lands	Fyzabad	Sold to Trinidad Leaseholds, Ltd.	No drilling. Small production.
15	H. S. Tucker	Private lands	Pointe Ligoure and Fyzabad	Refined and products sold locally	Small production obtained from existing wells in the Fyzabad and Pointe Ligoure districts.
16	Coldan, Ltd	Private lands	Williamsville	The production was consumed by the Company	This concern drilled one well in an abandoned field and then suspended operations; all the production was consumed.
		1	1		

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APPENDIX B.

HONOURABLE INSPECTOR OF MINES.

The year under review shews an increase of about 3.9 per cent, in the production but a decrease in footage drilled of 20.7 per cent, over the 1931 figures. The corresponding figures with regard to 1930 were 7.5 per cent, increase and 53.5 per cent, decrease respectively.

An analysis of the production and feet drilled for 1931 and 1932 shews:-

	1981.			1982.					
: :	Production brls.	Feet drilled	Average Production per Well.	Production brls.	Feet drilled.	Average Production per Well.			
Crown Lands	2,816,924.44	42,960	612	3,340,290.65	44,568	806			
Alienated Lands	2,511,544.57	95,400	1,828	2,270,610.21	67,162	1,775			
Private Lands	4,415,033.58	80,107	1,394	4,512,958-49	61,557	1,856			

Sixty-one new wells were started up during the year making a grand total for the Colony of 1,902.* These new wells were disposed of as follows:—

•				Crown.	Private.
Wells started during 1932	B1	Bes 9		4 1	20
Wells brought forward from 1931	***	***	••	17	12
Total	• •	***	•-•	58	32
Wells completed as producers			•	32	19
Wells completed as a water well		•	***	1	0
Wells completed as dry holes but no	ot abandoned		*-*	1	1
Wells current in 1932 and abandone holes	ed as dry or u	ncomn	ercial	2	1
Wells current in 1932 and abandone	ed as junked o	r wate	red		
holes	*-*	***	#+ ¥	0	1
Wells unfinished at the end of 1932		***	***	2 2	10
Totals	•-•	***	• - •	58	32
Old wells abandoned during 1932	₩ ~ #	•••	•	3	5
Wells re-completed during the year	₽ ≈\$			19	16

The average number of wells producing monthly shewed a slight increase over the 1930 and 1931 figures as follows:—

					1930.	1931.	1982.
Wells flowing	• •	•••	-	5~ a	170	185	215
Wells pumping	-	***		•-•	544	504	469
Wells Swabbing or	Bailing	-	-		38	60	81
Wells on Air or Gas	Lift.	• . •	• •	*. *	19	13	15
Wells on Displacem	ent Pump	ing	***		<u></u>	-	6
					771	762	796
					//1	762	786
					****		-

From the above it will be seen that the number of flowing wells has increased. This is mostly due to the increased use of tubing to bring a new well in which prolongs the flowing life of a well considerably as was indicated in my last year's report. This use of tubing together with more attention paid to the older producing wells has considerably reduced the number of feet required to be drilled to maintain the Colony's production, despite the fact that in some areas drilling has proceeded further down the flanks necessitating deeper wells.

The greatest production again came from the Fyzabad area with 63.8 per cent. of the total for the Colony divided amongst the Companies operating there.

Surface geology is still being carried out to fit in with the geophysical survey of the south-western corner of the island mentioned in my last year's report.

^{*} One pup well was drilled on Crown Lands in 1926 but was not previously reported,

An additional survey with two Eötvos balances was carried through from Cedros peninsula to Moruga and where the results are available they have confirmed previous geological opinion. This survey is continuing and a magnetometer is now being used in places where the torsion balances. were unsuitable.

The most outstanding item of interest of the year was the start in July of checking up strata drilled in a well by an electrical instrument and this apparatus is now run in most of the wells drilled in the Colony. In some areas the instrument is used as a check to mechanical coring and in others it is entirely relied on for placing the perforations in the oilstring.

The acid bottle is generally used to check verticality of a well where such checking is carried out.

During the year four wells were surveyed, the first two by means of a gyroscopically controlled instrument and the other two by an electric teleclinometer. Of these four wells three were found to deviate up dip and the fourth along the strike.

Frequent inspections of drilling and production machinery were carried out in conjunction with the ordinary routine duties. All Companies have continued to shew the greatest willingness to co-operate with this office in all ways.

There was one fatal accident and 22 other accidents reported during the year. An analysis of these accidents shews 48 per cent. were due to carelessness or inattention to what was going on by the man injured, the balance were unavoidable. No well caught fire during the year.

Owing to the small production obtained from the wells and to the sulphur content of the crude it was decided to abandon the Point d'Or Field. This work is now nearing completion.

C. E. CAPITO, Petroleum Technologist.

2nd March, 1933.

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DRILLING AND PRODUCTION RETURN FOR 1932.

		Started.		oleted	ri,	peted		eted	is.		တ ်	rrted *	l onth.						We	lls pr	oduci	ng b	у				 i	ells total	
Month.	The state of the s	New Wells Sta		New Wells completed	as produce	New Wells com	as dry but not abandoned.	Wells re-compl	as producers.	manufacturing management and policy management and and an article management and an article management and an article management and arti	Wells abandoned	Total Wells started to date. *	Footage drilled during month.	Production for month.		Flowing.		Fumping.	Bailing or	Swabbing.	Air or Gas	Ciff.	Displace-	Pump.	Total No. of	Producing.	Grand Total.	Percentage Wells producing to total wells drilled.	REMARKS.
	c	P	(P	С	P	С	P	. C	Ъ	C/f. 18 ₄ 1		Barrels,	c	P	С	Р	c	P	c	Р	С	Р	С	Р			
January	. 2	2		ı	3	1		I	1		ı	1,845	12,271	846,955.72	128	82	305	158	67	8	10	2		2	510	252	762	41.32	
February		3		1	3			ľ	1	ı	2	1,848	10,188	828,859.80	125	82	313	160	68	5	15	3	I	2	522	252	774	41.91	
March	. 3	2		2	1			ı	3			1,853	10,037	874,144.95	128	83	322	161	67	3	10	3	2	3	529	253	782	42.22	
April	. 2	3	4	4	2			3	_	-	I	1,858	14,250	852,080.32	131	83	328	160	74	5	11	4	2	3	546	255	801	43.13	
May	5	-	:	ı			_	2	3	-		1,863	15,404	8 59,609.51	130	73	327	153	75	5	13	4	3	3	548	238	786	42.21	
June	2	ı	1	3	4		_	ı	<u> </u>			1,866	17,394	839,247.51	135	.76	320	150	76	5	16	3	3	4	550	238	788	42.25	
July	. 3	2		3	1			3	τ	1		1,871	17,405	883,101.96	136	75	3 1 7	150	80	4	20	2	2	5	555	236	791	42.30	
August	5	ı		5	2			r	2	r	I	1,877	16,051	854,301.16	141	80	317	152	75	5	14	2	3	6	550	245	795	42.38	
September	6	2	2	2	-			r	2	_	1	1,885	12,534	840,980.51	136	82	3 19	151	81	4	13	I	3	6	552	244	796	42.25	I Water well.
October	3	-	4 2	2	2				2	I	I	1,888	17,727	850,281.23	145	81	313	142	77	10	13	2	3	6	551	241	792	41.97	
November	4	3	3	3	-			3	<u> </u>	I		1,895	12,383	785,155.01	144	75	313	139	76	9	13	1	3	6	549	230	779	41.13	
December	6	. I	5	5	1		1	2	I			1,902	17,643	809,139.67	147	77	308	143	87	9	13	I	I	6	55Ġ	236	792	41.66	
Totals	41	20	32	2	19	1	ı	19	16	5	7			State of the state	Aver	ages		~ = 4		6					542	242			
Grand Totals	_	61		51	-	2)	, 35	1	2	1,902	173,287	10,123,857-35	21	79 5	-	152 .69	-	6	13		2	4	78	243 6	786	42.06	

C. ERIK CAPITO,
Petroleum Technologist.

^{*} One pup well was drilled in 1926 on Crown Lands but not previously reported

APPENDIX C.

Daily average number of persons employed in Oilfields and Quarries and the quantity and value of minerals obtained during the year ended 31st December, 1932.

		ly average nu ersons emplo			Approximate Value. †	
Minerals.	Males.	Females.	Total.	Quantity.		
Oil	4,386	71	4,457	10,126,065 Barrels	£1,378,855	
Asphalt	546	3	549	68,266 Tons *	42,666	
Private Quarries (Limestone, Gravel, &c.)	241	91	332	126,938 Tons	9,417	
Government Quarries (Limestone, &c.)	335	96	431	74,880 Tons	11,318	

^{*} In addition to this amount 39,191 tons were extracted from the Pitch Lake by the Public Works Department for use on the roads of the Colony.

† The values in this column are those returned by owners and managers and represent the value at the place of production.



APPENDIX D.

Comparative Statement of oil produced and exported year by year since the inception of the Petroleum Industry in the Colony.

-		,					Production in barrels.	Quantity of Crud Oil and Refined Oil exported in barrels.
	1905 to 31s	st Marc	ch. 1910				10,541	
	1910-1911		, 1010		4-4		225,112	,
	1911-1912				***		285,307	219,582
	4040 4040	• •	***	•	•••		503,616	122 734
	1913-1914	• •		• **	***		643,516	387,719
	44-0	***		3-6	4/4		1,050,112	348,351
	9 months e	nded l	December		****		671,125	408,188
	1916	*-*	***		*		927,877	975,142
	1917		*	•-•	••		1,602,312	1,079,369
	1918	***	***	#44 P	e-ae	•-•	2,082,068	1,305,407
	1919	•		***	•-•		1,841,047	1,406,264
	1920	-				/	2,083,027	1,034,907
	1921	•	***	***	•-•		2,354,160	1,223,346
	1922	***	****	•	• •••		2,444,752	1,615,740
	1923	***		•-•	-	•=•	3,050,872	2,432,470
	1924	» = 4	***	4-4	*		4,056,612	3,224,529
	1925	* **	***	***			4,386,507	3,606,608
	1926	•••	***	1-0		•	4,971,471	3,988,308
	1927	•••	****	***	+		5,380,464	4,456,770
	1928	•~•	***			•~•	7,684,450	6,361,675
	1929	¢-m#	•		4-4		8,715,652	8,243,023
	1930	~~*	***	4- g	• •		9,418,907	7,678,807
	1931	***		• •		•	9,743,502	8,964,303
	1932 ·		•-•	• •	****	•	10,126,065	9,637,474
							84,159,074	68,720,716

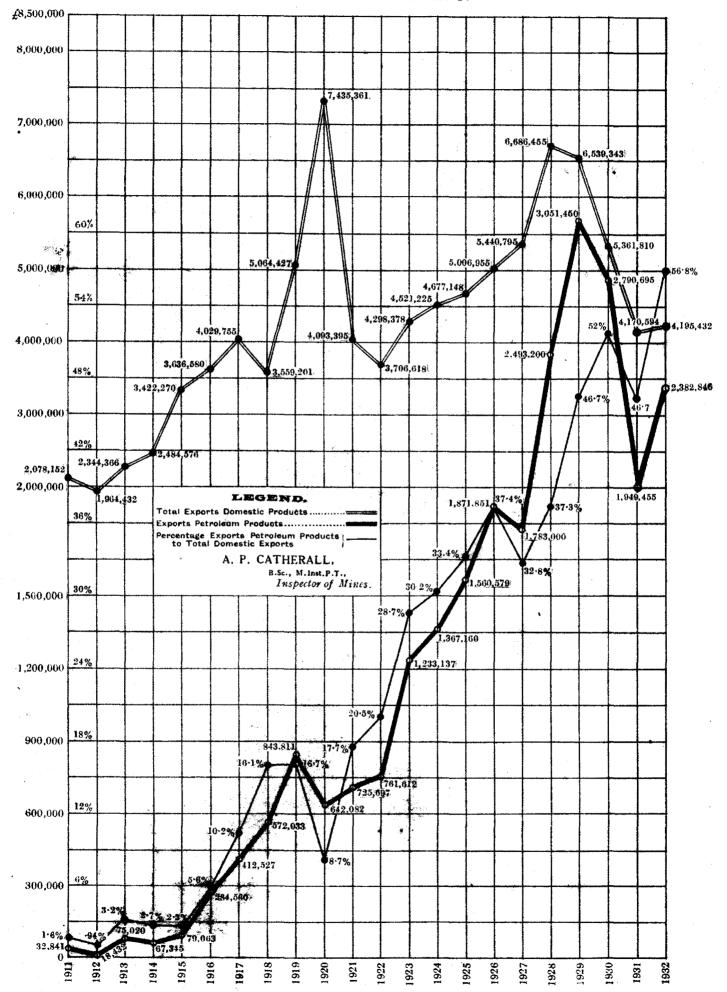
APPENDIX E.

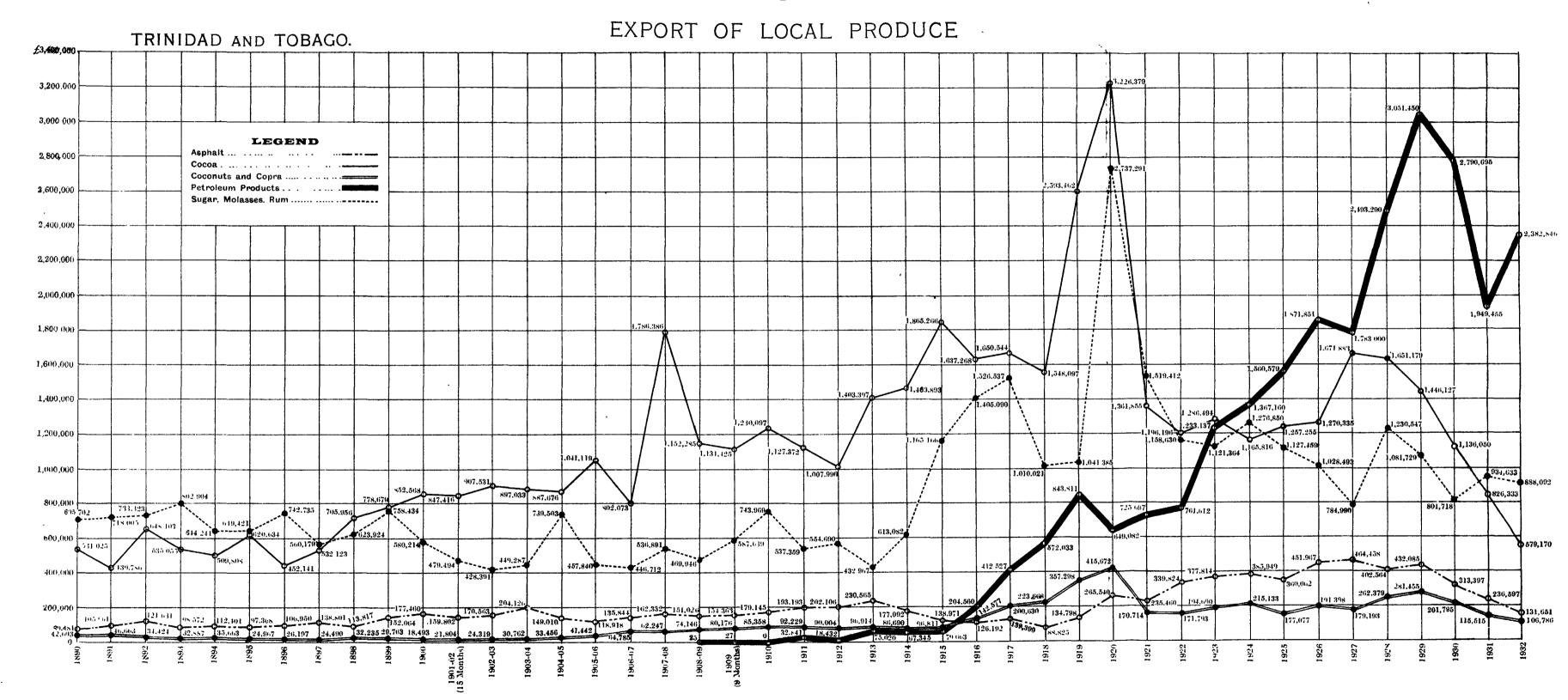
Comparative Statement of Oil refined in the Colony.

Prev	rious to 1	920		• • •		• •	1-1	4,051,373	barrels
1920) : . .	• •		•••		• • • • • • • • • • • • • • • • • • • •		1,395,487	do.
1921	L J 🔐 🐪	• •	• •	• •.	••	• •		1,806,016	do.
1922	2			• •	• •			1,820,018	do.
1923	3	,			• •	• • •	*	2,360,279	do.
1924	٠					• •	•-•	3,433,902	do.
1925	5	• •	• •			•••		3,790,343	do.
1926	·		• •	•••		•••	***	3,786,876	do.
1927			• •	***		••	•••	4,796,223	do.
1928	3	• •	• •	***	• •	• • •		6,725,383	do.
1929	 ,				• •	. • •	•	7,642,726	do.
1930)	• •		4-*	*-*	• • •	•••	7,989,679	do.
1931		• •		•-•	4	*. •	***	6,899,144	do.
1932				•••				7,635,296	do.
				Total	•-•	# +#	• •	64,132,745	do.

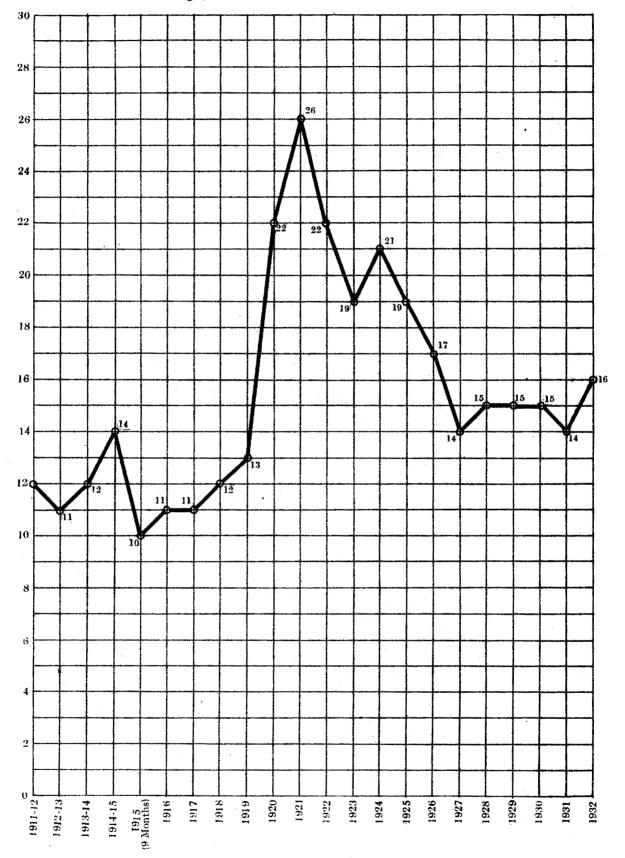
Α

TRINIDAD AND TOBAGO.



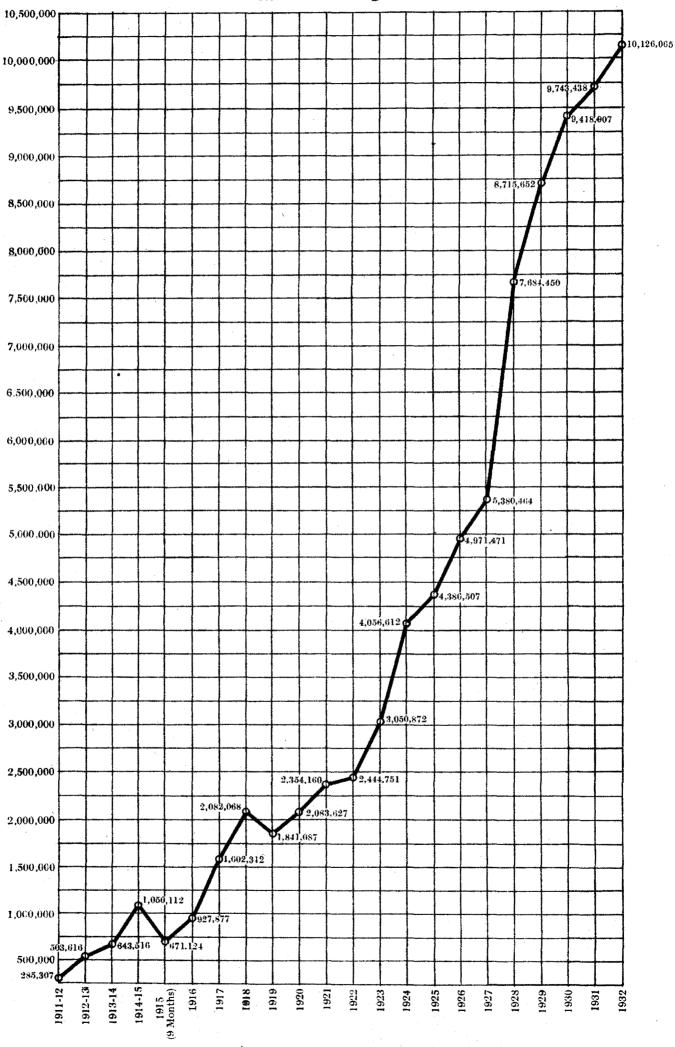


Curve showing the number of Oil Companies that have operated annually in the Colony from 1st April, 1911 to 31st December, 1932.

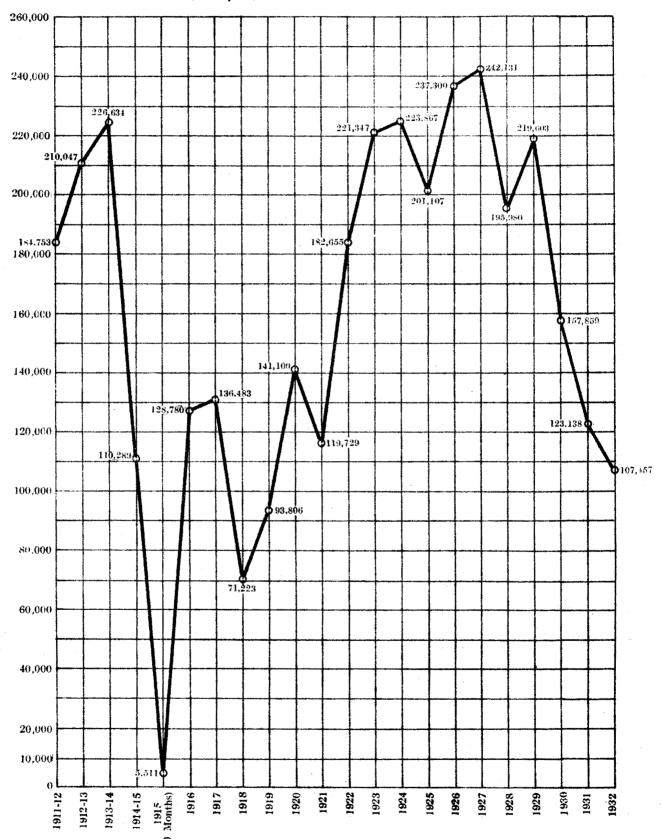


Total Annual Production of Crude Oil in Barrels.

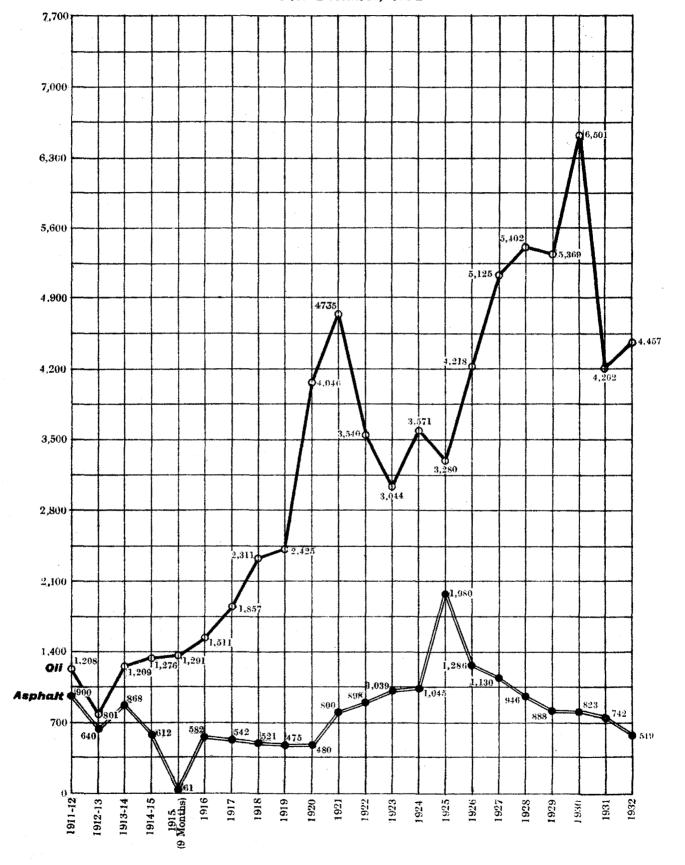
One barrel = 35 gallons.



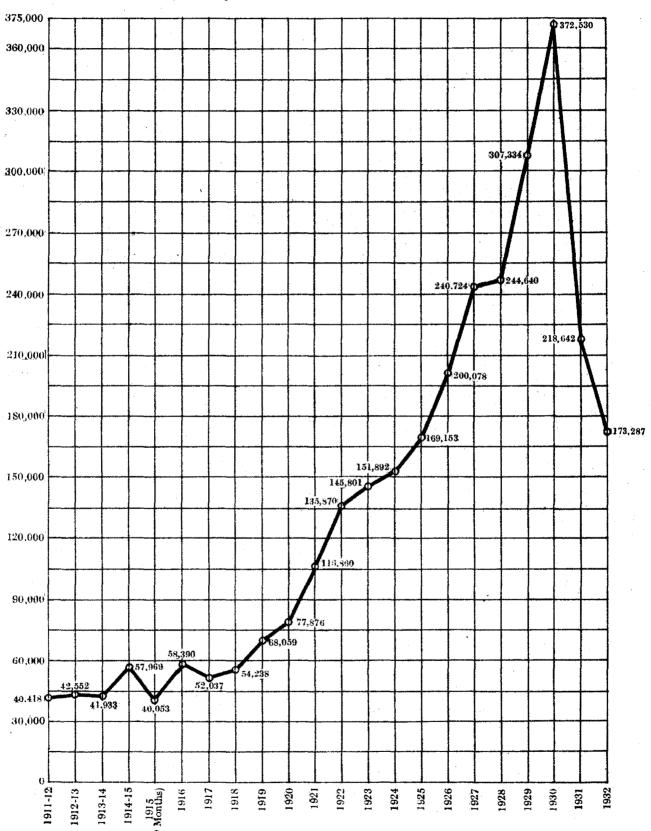
Curve showing yearly output of Asphalt from the Colony in Tons, from 1st April, 1911 to 31st December, 1932.



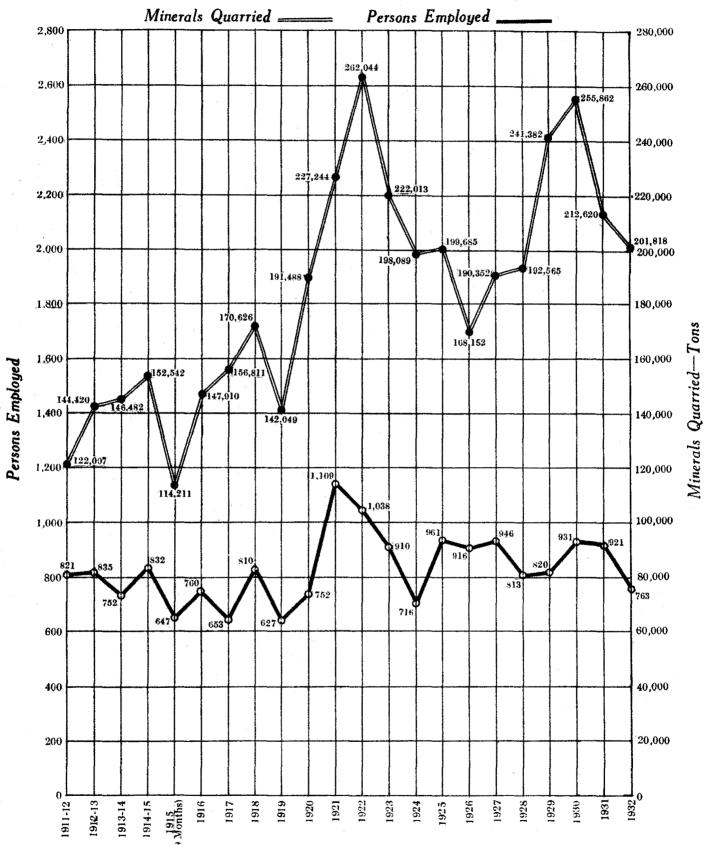
Curve showing comparison of daily average number of persons employed in the Oil and Asphalt Industries of the Colony from 1st April, 1911 to 31st December, 1932.



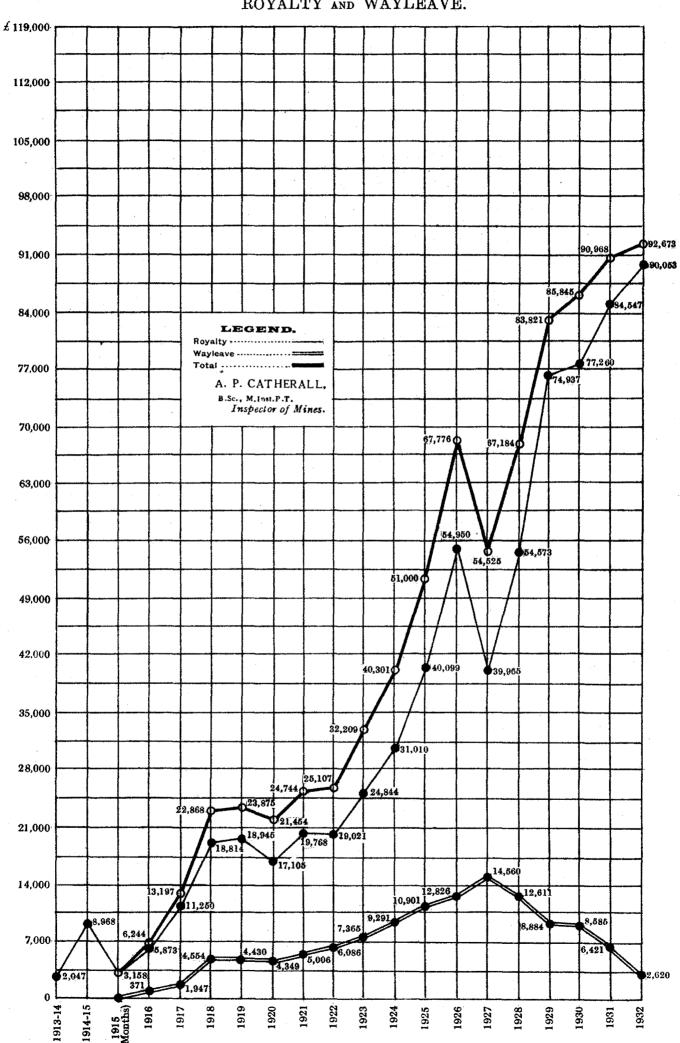
Curve showing yearly total number of feet drilled in the Colony from 1st April, 1911 to 31st December, 1932.

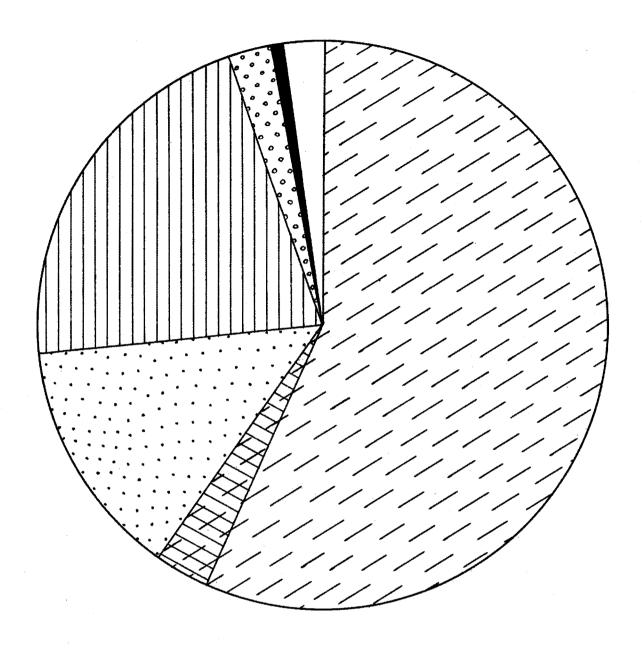


Curve showing the yearly total quantity of Minerals quarried and a comparison of the daily average number of persons employed in Quarries in the Colony from 1st April, 1911 to 31st December, 1932.



ROYALTY AND WAYLEAVE.





Mineral Exports		59 [.] 9°/。
Petroleum Products Asphalt		
Agricultural and other	Exports	40°1°/。
Cocoa	13 [.] 8°/。	· . · . ·
Sugar, Molasses, Rum	21.2%	
Coconuts, Copra, Coconut	Oil 2.6%	0000
Coffee	·5°/。	
Other Exports	2.0°/°	