1947 ZEALAND $N \to W$

STATE COAL-MINES

(REPORT ON THE WORKING OF) FOR THE YEAR ENDED 31st MARCH, 1947

Prepared in accordance with the requirements of Section 184 of the Coal-mines Act, 1925

REPORT

BY THE HON. A. McLAGAN, MINISTER OF MINES

MR. SPEAKER,-

I have the honour to present to Parliament the Balance-sheet, Statement of Accounts, and reports on the operations of the State Coal-mines for the year ended 31st March, 1947.

The gross output of the State coal-mines for the year ended 31st March, 1947, was 1,097,273 tons, an increase of 72,336 tons when compared with the year ended 31st

Output at the Liverpool Colliery decreased by 22,031 tons to 100,077 tons. bulk of the output was obtained from pillar-extraction in the Morgan Rise and Kimbell

The output at the Strongman Colliery was 99,329 tons, compared with 100,275 tons

for the previous year. All coal was won from developing sections.

The Blackball Colliery showed a decrease in output of 1,387 tons. Adverse mining conditions still pertain at this colliery and the coal is friable. Although there has been no substantial improvement in the mining conditions mentioned last year, the output at this colliery was well maintained.

An increase in output of 4,800 tons was recorded at the Dobson Colliery, and the Superintendent reports that prospects for the future working of this mine are good for many years.

The total output from the Stockton State mines increased by 22,239 tons to

237,460 tons. The bulk of this increase was obtained from the E Hill opencast.

The Burke's Creek Colliery was taken over on the 3rd June, and the output from that date to the 31st March, 1947, was 13,550 tons. Since taking over the colliery much reconditioning has had to be done. Development work is now proceeding.

Development work at the Garvey Creek Mine is still proceeding and no output had

been recorded up to 31st March, 1947.

Output at the Mossbank Colliery increased by 1,340 tons to 25,468 tons. During the year a new return airway was driven in stone, and this has resulted in improved ventilation in the mine.

By the 31st March all coal had been extracted from the Ohai Opencast. During the year 49,475 tons were produced, making 85,671 tons obtained from this opencast by the State.

At Wairaki No. 1 Mine, pillar-extraction was carried on during the year while the output from Wairaki No. 3 Mine was obtained from solid workings. An increase in output of 375 tons was recorded.

The output of the Wilton Colliery decreased by 8,715 tons to 79,937 tons. This colliery has been seriously affected by a shortage of labour following the revocation of the Industrial Man-power Emergency Regulations, and the bad winter caused

numerous slips and washouts which affected output.

Work continued at the Kimihia Opencast No. 1, where 42,762 tons were produced, making the total output to date 123,031 tons. During the year Athey wagons and tractors were used to remove the unstable overburden, which was dumped outside the mine area. A start has been made on the building of a stop-bank round an area adjacent to the No. 1 Area and known as Kimihia No. 1 Extended. The new area is estimated to contain 450,000 tons of coal.

At the Glen Afton Opencast, weather again interfered with output. During the year 15,803 tons were produced, and approximately 8,000 tons remain to be extracted. Work continued steadily at Kemp's Opencast, where 55,246 tons were produced.

The Mangapehi Mine suffered from shortage of man-power, and the output declined by 4,171 tons.

The decrease in output at the Waitawhena Opencast was due to the extremely wet weather experienced during the winter, which caused difficulties in stripping and transport.

Mining conditions at the Tatu Mine have shown an improvement during the year and a small increase in output has resulted. During the year further electrical plant was installed underground.

The Wangaloa Opencast produced 32,023 tons for the first complete year of operation.

OUTPUTS

A comparative statement of outputs for the last two financial years is shown hereunder:—

Mine.	Output,	1946-47.	Output,	1945-46.	Percentage Increase in	Percentage Increase in Net Output.	
Aime.	Gross.	Net.	Gross.	Net.	Gross Output.		
	Tons.	Tons.	Tons.	Tons.			
Liverpool	 100,077	95,380	122,108	117,430	-18.04	-18.78	
Strongman	 99,329	96,680	100,275	98,420	- 0.94	- 1.77	
James	 		39	39	• •		
Blackball	 60,037	58,356	61,424	59,286	-2.26	-1.57	
Mangapehi	 53,940	51,549	58,112	56,014	-7.18	-7.97	
Tatu	 34,377	32,375	32,573	30,979	+5.54	+ 4.51	
Wallsend	 47,075	44,664	47,233	45,028	- 0.33	- 0.81	
Dobson	 59,380	57,806	54,580	53,047	+ 8.79	+ 8.97	
Stockton	 237,460	231,690	215,221	208,460	+10.33	$+11 \cdot 14$	
Mossbank	 25,468	24,398	24,128	22,725	+5.55	+ 7.36	
Wilton	 79,937	75,154	88,653	83,651	- 9.83	-10.16	
Wairaki	 68,800	65,274	68,425	63,343	+ 0.55	+ 3.05	
Burke's Creek*	 14,454	13,575					
Glen Afton Opencast	 15,803	15,803	14,394	14,394	+ 9.79	+ 9.79	
Kimihia Opencast	 42,762	42,762	32,398	32,398	+31.99	+31.99	
Kemp's Opencast	 55,246	55,246	[38,097]	38,097	+45.01	+45.01	
Ohai Opencast	 49,475	49,475	35,492	35,492	$+39 \cdot 40$	$+39 \cdot 40$	
Waitewhena Opencast	 21,630	21,630	23,198	23,198	- 6.76	- 6.76	
Wangaloa Opencast	 32,023	32,023	8,587	8,587			
Totals	 1,097,273	1,063,840	1,024,937	990,588			

^{*} Colliery taken over on 3rd June, 1946.

SALES

The following table shows the total sale of State coal from the State mines as compared with the previous year and the average f.o.r. price realized by each mine, exclusive of subsidy:—

2	Mine.			Total Sales, 1946–47.	Total Sales, 1945-46.	Percentage Variation.	Average Price f.o.r. realized
		- Carpet West State		Tons.	Tons.		s. d.
Liverpool .				99,403	115,487	-13.93	19 6.53
Strongman .				96,681	99,663	-2.99	24 4.56
James .					39		
Blackball .				58,714	58,663	+ 0.09	17 5.42
Mangapehi .			!	51.381	56,012	-8.27	19 2.76
Tatu .			:	32,476	31,026	+4.67	21 11.80
Wallsend .				44,618	46,756	-4.57	$22 \ 11.99$
Dobson .				57,127	52,943	+ 7.90	24 1.69
Stockton .				230,419	210,623	+ 9.40	$21 2 \cdot 24$
Mossbank .				24,363	22,713	+ 7.26	$22 2 \cdot 13$
Wilton .				75,039	83,479	$-10 \cdot 11$	19 1.18
Wairaki .				65,169	63,283	+ 2.98	22 0.56
Burke's Creek .				13,503			25 8.63
Glen Afton Open			!	15,803	14,394	+9.79	22 8.87
Kimihia Opencas				42,762	32,398	+31.99	$23 \ 4 \cdot 42$
Kemp's Opencas			!	55,246	38,097	$+45 \cdot 01$	$20 - 9 \cdot 52$
Ohai Opencast .				44,153	35,492	$+24 \cdot 40$	$25 ext{ } 4.84$
Waitewhena Ope				21,630	23,187	-6.71	$25 \ 4 \cdot 34$
Wangaloa Openo				32,023	8,587		17 10.25
Totals				1,060,510	992,842		

The difference between the output shown in the previous table and sales is accounted for by (1) coal used on works, (2) waste, (3) opening and closing stocks.

OUTPUT PER MAN EMPLOYED

The following table shows (a) the output per calendar year per man employed underground and (b) the output per calendar year per man employed (underground and surface) :--

ایرا	Potal.	Tons. 423 314 394 594 525 525 757 735
1938.	Under-	Tons. 561 563 496 486 674 674 739 739 1,144
.63	Total.	Tons. 459 192 53 394 539 567 589 589 552
1939	Under- ground.	Tons. 6112 6112 6112 8814 500 500 686 714 809 809 809
10.	Total.	Tons. 410 390 179 326 538 538 576 576
1940.	Under- ground.	Tons. 528 578 579 5114 414 720 720 720 587 588 588 588
11.	Total.	Tons. 521 475 326 326 326 326 326 326 443 442 199 547
1941.	Under- ground.	Tons. 715 694 772 772 772 834 834 800 523 622 622 812 623 623 623 623 623 623 623 623 623 62
12.	Total.	Tons. 504 463 419 369 453 453 804 441 534 534 534 520
1942.	Under- ground.	Tons. 672 672 711 595 478 649 606 1,309 616 722 722 722 636 624
.3.	Total.	Tons. 440 451 352 352 349 471 669 550 550 4418
1943.	Under-	Tons. 583 627 627 627 658 658 658 658 695 658 658 658 658 658 658 658 658 658 65
<u>.</u>	Total.	Tons. 371 393 393 391 290 290 647 647 546 524 303 438 531
1944	Under- ground.	Tons. 1988. 1988. 1988. 1984.
	Total.	Tons. 352 394 394 416 416 621 271 271 271 544 5428 311 451
1945.	Under- ground.	Tons, 468 538 538 538 538 538 538 538 538 538 53
.66.	Total.	Tons. 935 937 937 937 938 938 937 939 939 939 939 939
1946.	Under- ground.	Tons. 1441 564 557 557 558 854 854 854 854 854 854 854 854 854
	-	:::::::::::::::::::::::::::::::::::::::
	ine.	:::::::::::::::::::::::::::::::::::::::
	K	Liverpool Blackball Blackball Wallsend Dobson Wilton Waraki Maraki Mossbank Mangapehi Stockton Stockton

Norr.—Some of the high outputs per man employed prior to 1944 are due to slack being raised from dump and credited to output. † Separate output returns for Burke's Creek not available for 1945. * Mine worked portion of year only.

30.	Total.	Tons. 397 319 389 387 227 420
1930.	Under- ground.	Tons. 552 332 551 551 551 551 551 551 551 551 551 55
1931.	Total.	Tons. 248 2340 2340 2340 2340 2340 2340 2340 2340
19	Under- ground.	Tons. +81 +81 +81 -151 -151 -151 -151 -151 -151 -151 -1
1932.	Total.	Tons. 290 607 607 613 208 208 235 235
19	Under- ground.	Tons. 3928 832 832 832 832 832 8411 8411 8613 861 8558 8558
1933.	Total.	Tons. 2899 8841 8895 410 10 10 10 10 10 10 10 10 10 10 10 10 1
19	Under- ground.	Tons. 288 654 655 656 656 656 656 656 656 656 656
1934.	Total.	Tons. 304 304 316 331 331 520 11 11 236 416
19	Under- ground.	Tons, 407 176 446 401 742 702 10 10 10 10 10 10 10 10 10 10
1935.	Total.	Tons. 408 411 411 411 562 562 686 686 686 687 688 688 688 688
19	Under- ground.	Tons. 556 713 575 428 764 764 530 631
1936.	Total.	Tons, 396 396 396 396 396 396 396 396 396 396
19	Under- ground.	Tons. 536 536 543 566 543 595 721 7.135 714 764
1937.	Total.	Tons. +17 +17 +137 +136 +136 +136 +126 +126 +126 +126 +126 +126 +126 +12
19:	Under- ground.	Tons, 560 (500 (500 (500 (500 (500 (500 (500
		::::::::::::
	Mine.	Liverpool Strongman Strongman Blackball Blackball Wallsend Wallsend Wildon Wildon Waraski Aossbank Mangapehi Tahi Strockton Burke's Creek

SCREENING OF COAL

The following table shows the percentage of coal sold as unscreened and the results obtained from the screening of the balance of the output:—

Mine.		Percentage sold as Unscreened.	Percentages of Screened, Nuts, and Small obtained from Coal screened.					
				onscreence.	Scre	ened.	Sma	11.
Liverpool				99.58		3 · 67	93.	33
Strongman				9.88	81	· 25	18.	75
Dobson				$4 \cdot 13$		0.07	$19 \cdot$	
Wallsend				$5 \cdot 16$	70) · 28	$29 \cdot$	72
Blackball				$7 \cdot 81$	29	9.76	70 ·	
Stockton				$22 \cdot 52$		3.00	42 ·	
Mossbank				• •		5·95	33 ·	
Burke's Creek				$27 \cdot 04$.53	28	
Kemp's Openo	east	• •		• •	1	3.81	41 ·	
Waitewhena				• •		5.66	44.	
Glen Afton		• •	• •	• •		1.69	45.	
Kimihia Open			••	• •		3.74	31 ·	
Wairaki Open	cast	• •	• •			3.14	31 ·	
Bar 20	• •	• •	• •	$6 \cdot 27$		7.50	22.	
Wangaloa	• •	• •	••	••	Υ.	7 - 00	23 ·	00
					Percent and	age of House, Slack (North	Domestic, K Island Gradi	Litchen,
					House.	Domestic.	Kitchen.	Slack.
Wilton Mangapehi				$5 \cdot 45$	11.81	51.12	33.31	48·88 54·88
Tatu				6.04		49.11		50.89

ACCIDENT INSURANCE

The State Coal-mines carries its own compensation risk, provision being made in the accounts, which are debited with premiums at the rate of £5 $\frac{1}{4}$ per cent. on colliery wages and £2 per cent. on depot wages. The Insurance Working Account shows a surplus of £24,576 5s. 1d. on the year's operation, and this amount brings the total of the Accident Insurance Reserve Account at 31st March, 1947, to £79,713 8s. 5d.

The cost of claims percentage on wages paid amounted to £2 17s. 9d., as compared with £3 3s. 11d. for the previous year, the average cost of each claim being £24 10s. 7d. compared with £25 11s. 1d. during the 1945-46 financial year.

The District Manager, New Zealand State Coal Mines, Ohai, to the Under-Secretary, Mines Department, Wellington.

SIR,--

16th April, 1947.

I have the honour to submit my report on the workings of the Mossbank State Mine, the Bar 20 Opencast, and the Wairaki State Mine for the year 1st April, 1946, to the 31st March, 1947.

Mossbank Colliery

Coal-winning.—The gross output for the year was 25,468 tons 5 cwt. 2 qr., an increase of 1,340 tons 11 cwt. when compared with the figures of the previous year. After allowing for waste (117 tons 4 cwt. 1 qr.) and the quantity used on works (952 tons 14 cwt. 1 qr.), there remained for disposal a net output of 24,398 tons 7 cwt.

The following statement shows details of coal disposed of during the year:—

1st April, 1946—					Tons	cwt.	qr.
Stocks in yard							
Add net output for y	rear				24,398	3 7	0
31st March, 1947—							
Less stock in yard							
Total disposed o	f				24,398		
		Disposals					
			Tons	ewt. qr.			
Railed			24,141	17 0			
Local and mine sales			5	0 0			
Workmen and free issues			251	10 0			
					24,398	3 7	O

The gross output from the colliery since taken over by the State on 2nd October, 1944, totals 61,415 tons 4 cwt.

Days worked.—The Mossbank Colliery worked $235\frac{1}{2}$ days out of a possible 242 ordinary working-days. In addition, the colliery worked 13 back Saturdays and 5 statutory holidays, making the total days worked $253\frac{1}{2}$. The difference between the days worked and the possible number of ordinary working-days is accounted for as follows: 1 day, Easter Tuesday; 2 days, funerals of ex-members of Miners' Union; $2\frac{1}{2}$ days, power failures; 1 day, fall in return airway.

Employees.—In connection with coal-winning, the average number of persons engaged in and about the mine was 44 men and 1 boy, made up as follows—Underground: coal-hewers, 15; deputies, shiftmen, and truckers, 19. Surface: 10 men and 1 boy.

Daily Output.—The average daily output was 100 tons 9 cwt. and the coal-hewers' average daily output was 7 tons 15 cwt., as compared with 96 tons 7 cwt. and 7 tons 8 cwt. respectively for the previous year.

Deficiencies.—No payments were made under the minimum-wage clause.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £3 0s. 3d., and after deducting stores (explosives) their net return was £2 15s. 4d., an increase of 10d. per day when compared with the previous year.

Accidents.—Only a few minor accidents occurred during the year under review. Stone-dusting.—This work was done regularly throughout the year.

Underground Workings.—During the year development work was completed in the North-west Dip Section and in the Laybye South Level. In both areas splitting of the coal-seam by stone intrusions and the convergence of major faultings adversely affected the quality and thickness of coal to such an extent that development work was stopped and the extraction of pillars commenced in the latter half of the year. In the North-west Dip the seam thinned to 1 ft. and terminated on a belt of disturbed ground indicated as a wash-out. Similar conditions were encountered in the South Level, with progressive widening of vertical intrusions of conglomerate. The North-west Dip was advanced 5 chains and the South Level 6 chains during the first six months of the year.

Pillar-extraction was completed in No. 2 South-east Panel and the area subsequently scaled off on account of heating in a fall of coal and stone in the panel airway. In the South-west Level two dips driven to the south-west proved the major upthrow fault between the Level and the Laybye Section.

A new return airway driven in stone for 258 ft. from the upper mine workings to the original return airway at a point approximately 4 chains from the ventilating-fan was completed and was in use in December. The new airway eliminated 18 chains of the original airway which overlay the coal-seam, and resulted in improved ventilation of the mine. The coal generally was of good quality with an average thickness of 14 ft.

Plant.—All plant operated satisfactorily and repairs and maintenance were efficiently attended to by the engineering staff.

BAR 20 OPENCAST MINE

Coal-winning.—The net output for the year was 49,474 tons 13 cwt., an increase of 13,982 tons 6 cwt. when compared with the figures for the previous year. The following statement shows details of coal disposed of during the year:—

1st April, 1946—				Tons ew	t. qr.
Stocks in yard Add net output for year	• •	• •		49,474 13	0
31st March, 1947—					
Less stock in dump (dross)	• •			5,300 (()
Total disposed of				44,174 18	0
	Disposals				
		Tons ew	t. qr.		
Railed		42,004 13	5 0		
Local and mine sales		2,079 2	2 - 0		
Workmen and free issues		90-16	3 0		
				44,174 13	0

The net output from the colliery since operated by the Sate totals 85,671 tons 7 cwt. *Employees.*—The average number of men employed at the opencast was 15.

Days worked.—The opencast worked on 214 days out of a possible 242 ordinary working-days. In addition, the colliery worked on 33 Saturdays, 4 statutory holidays, and 8 colliery holidays (during the Christmas period), making the total days worked 259. The difference between the days worked and the number of ordinary working-days is accounted for as follows: 2 days, Easter Tuesday and Wednesday; 1 day, funeral of ex-member of Miners' Union; 12 days, mechanical breakdowns; 13 days, flooding.

Workings.—Opencast operations continued throughout the year and all coal has now been exhausted. The larger portion of the output was won from an area previously occupied by Black Lion Tram-line, the surface buildings, and a section of the Ohai Stream, which was diverted on two occasions to permit the recovery of an additional 18,000 tons of coal.

In October, 1946, a flooding of the mine resulted in a stoppage for two weeks. Approximately 1,000,000 gallons of water was pumped from the mine during this period, but thereafter coal-production was continued to the end of the year without serious interruption.

The coal was of good quality, but high ash content of dross resulting from friable sandstone and conglomerate intrusions was responsible for 5,300 tons of unmarketable product.

Plant.—Screening and other plant operated satisfactorily and maintenance and repairs of all equipment were efficiently attended to by the engineering staff.

WAIRAKI COLLIEBY

Coal-winning.—The gross output for the year was 68,799 tons 18 cwt. 1 qr., an increase of 374 tons 13 cwt. when compared with figures for previous year. After allowing for waste (1,115 tons 7 cwt. 3 qr.) and the quantity used on works (2,410 tons 5 cwt. 2 qr.), there remained for disposal a net output of 65,274 tons 5 cwt.

Т	he following statement shows	details of	coal disp	posed of	during	the	year:-
	1st April, 1946—		-	_	Tons	ewt.	qr.
	Stocks in yard						•
	Add net output for ye	ar			65,274	5	0
	31st March, 1947—				·		
	Less stock in yard		• •				
	Total disposed of		••	• •	65,274	5	0
		Disposal	s				
		_	Tons	cwt. qr.			
	Railed		63,609	$9 \hat{0}$			
	Local and mine sales .		1,160	15 - 0			
	Workmen and free issues .		504	1 0			
					65,274	5	0

The gross output from the colliery since taken over by the State on 27th January, 1945, totals 150,061 tons 5 cwt. 1 qr.

Days worked.—The Wairaki Colliery worked 236 days out of a possible 242 ordinary working-days. In addition, the colliery worked 15 back Saturdays and 5 statutory holidays, making the total days worked 256. The difference between the days worked and the possible number of ordinary working-days is accounted for as follows: 1 day, Easter Tuesday; 3 days, funerals of ex-members of Miners' Union; 2 days, disputes (1 day re back-Saturday work, 1 day re truckers).

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 88 men and 3 boys, made up as follows—Underground: coal-hewers 36; deputies, shiftmen, and truckers, 31. Surface: 21 men and 3 boys.

Daily Output.—The average daily output was 268 tons 15 cwt. and the coal-hewers' average daily output was 8 tons 5 cwt., as compared with 270 tons 9 cwt. and 8 tons 2 cwt. respectively for the previous year.

Deficiencies.—No payments were made under the minimum-wage clause.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £3 4s. 5d., and after deducting stores (explosives) their net return was £2 18s. 11d., an increase of 1s. 4d. per day when compared with the previous year.

Accidents.—One serious accident and several minor accidents occurred during the year under review.

Serious Accidents.—On the 1st October, 1946, a miner suffered a fractured pelvis by falling coal.

Stone-dusting.—This work was done regularly throughout the year.

Underground Workings.—No. 1 Mine: Pillar-extraction was carried out from the Dip Section, the Crosscut Section, and No. 1 Section. The average thickness of the seam in the Dip and Crosscut Sections is 17 ft., and in No. 1 Section it is 10 ft. There is only a small quantity of coal remaining to be extracted from the Dip and Crosscut Sections.

No. 3 Mine: Development and solid workings only were driven at this mine.

No. 6 Section: The development of this section was stopped because most of the working-places encountered faults, and it was decided to transfer the remaining miners to sections lower down the mine. The average thickness of the seam is 28 ft.

No. 8 Section: The main level after having been driven 2.5 chains struck an upthrow fault cutting across the working-face at 45 degrees, and a place was turned away to follow the direction of the fault. Twelve pillars have been formed in the section, and development work is being continued. The average thickness of the seam is 28 ft.

Main Dip: The driving of the main dip was continued in stone and the coal-seam was reached on the south side of the 33 ft. downthrow fault. At this point, 40 chains from the mine mouth, a laybye was formed as the terminus of the main direct rope haulage.

No. 9 Section: The direction and amount of the dip of the seam altered beyond the last downthrow fault met with in the main dip, and from the end of the terminus laybye a subsidiary dip was set away in coal to develop No. 9 Section. This dip has been driven 5 chains and it is within 2 chains of the boundary between the Star and Wairaki Mines. At this point the bottom 6 ft. of the seam has become very stony, but the remaining 18 ft. is of good quality, as proved by a borehole. Development work is being continued.

No. 10 Section: This section was turned away to the rise side of No. 9 Section. The level had been driven only 2.5 chains when it struck a downthrow fault running at an angle of 45 degrees across the face. A place was turned away to follow the direction of this fault. Three rise headings are now being driven parallel to the Ohai-Nightcaps Road barrier. The average thickness of the seam is 26 ft.

Plant.—The sirocco fan was transferred from the No. 1 Mine to No. 3 Mine and is running satisfactorily. A new elevator belt replaced the one worn out on the screens.

Fire Stoppings.—All fire stoppings have been maintained in good order.

Dangerous Heatings.—No heatings occurred during the year.

I have, &c.,

J. McArthur, District Manager.

The Superintendent, State Coal-mines, Greymouth, to the Under-Secretary, Mines Department, Wellington.

Sir,--

29th May, 1947.

I have the honour to submit my annual report on the workings of the Liverpool, Strongman, Blackball, Wallsend, and Dobson State Coal-mines for the year ended 31st March, 1947.

LIVERPOOL COLLIERY

Coal-winning.—The gross output for the year was 100,076 tons 17 cwt., a decrease of 22,030 tons 14 cwt. when compared with the figures for the previous year. After allowing for waste (1,058 tons 17 cwt.) and the quantity used on works (3,638 tons), there remained for disposal a net output of 95,380 tons.

Taking into account the stocks at the beginning and end of the year, the following statement shows details of the coal disposed of during the year:—

1st April, 1946—		$_{ m Tons}$	ewt	. qr	. Tons	ewt.	qr.
Stock in bin and yard		4,813	6	3			
Stock on wharf		609	3	0			
					5,422	9	3
Add net output for year	٠.		•		95,380	0	0
					100,802	9	3
31st March, 1947—							
Less stock in bin and yard		875	12	2			
Less stock on wharf		88	18	2			
					964	11	0
Total disposed of	• •				99,837	18	3
Disp	osals						
-		Tons	ewt.	qr.			
Shipped		56,946	14	0			
Railed to Canterbury, &c.		36,464	9	2			
Railway sales		591	8	3			
Local and mine sales		4,721	3	3			
Sales to workmen and free issues		1,114		3	-		
					99,837	18	3

The gross output from the colliery since its inception totals 4,269,056 tons 8 cwt.

Days worked.—The colliery worked 235 days out of a possible 242 ordinary working-days. In addition, the colliery worked 3 substituted statutory holidays, making the total days worked 238. The difference between the ordinary days worked, 235 and the possible number of working-days is accounted for as follows: 1 day, power failure; 1 day, fall of stone on railway-line; 1 day, heating in mine; 1 day, miners did not work; 2 days, death and funeral of workmen; 1 day, dispute re back-shift truckers

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 300 men and 15 boys, made up as follows—Underground: coal-hewers, 77; deputies, shiftmen, and truckers, 162. Surface: 61 men and 15 boys.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £3 2s., and after deducting stores (explosives) their net return was £2 19s. 6d., an increase of 1s. 6d. per day when compared with the previous period.

Daily Output.—The average daily output was 420 tons 10 cwt. and the coal-hewers' average daily output was 6 tons 2 cwt., as compared with 555 tons 1 cwt. and 7 tons 4 cwt. respectively for the previous year. The total number of hewer shifts for the year was 16,600.

Deficiencies.—There were no payments made under the minimum-wage clause during the year.

Accidents.—In addition to numerous accidents of a minor nature, 1 fatal accident occurred in the Liverpool Colliery. On 10th March, 1947, a shiftman was buried by a fall of coal in the Anderson East, sustaining injuries from which he died.

Stone-dusting.—Work under this heading was continued during the year. The number of samples taken from the Liverpool Colliery and analysed was 534. In addition, 110 samples from co-operative mines and 214 samples of coal from other State coalmines were also analysed.

Underground Workings.—The greater portion of the output from this colliery has been won from pillar-extraction in the Morgan Rise sections and Kimbell West Section. Considerable difficulty has been experienced in this pillar work owing to the slow rate of extraction and the necessity of having to drive through old places which have fallen since the first workings.

A large amount of development has been carried out in the Morgan Seam to the dip of the original Morgan East and West levels.

The Morgan East Dip was driven a distance of approximately 30 chains. A panel was opened out 16 chains to the dip in a northerly direction, which is standing in good clean coal 20 ft. to 25 ft. in thickness.

A panel at the same level was developed in a westerly direction which proved the coal-seam to be split into three seams of varying thicknesses.

The lower part of the Morgan East Dip workings was connected from the main drive by Hadcroft's stone drive to be used as a haulage road for the coal. Further development has been carried to the dip to a distance of a further 11 chains.

A dip and return dip have been driven from the Morgan West level a distance of 14 chains. The coal-seam at the face is 20 ft. to 25 ft. thick. The upper 6 ft. to 7 ft. carries stone bands, but the lower 16 ft. to 18 ft. is clean coal.

An examination has recently been made of the sealed fire area in the Kimbell West level. It appears that the old fire is dead, and arrangements are being made to extract the pillars left in this section.

STRONGMAN COLLIERY

Coal-winning.—The gross output for the year was 99,329 tons 9 cwt., a decrease of 945 tons 15 cwt. when compared with the figures for the previous year. After allowing for waste (2,142 tons 9 cwt.) and the quantity used on works (507 tons), there remained for disposal a net output of 96,680 tons.

Taking into account the stocks at the beginning and end of the year, the following statement shows details of the coal disposed of during the year:—

1st April, 1946— Stock in bin and yard		Tons ewt. qr. 972 15 0	Tons e	wt. qr.
Stock on wharf		886 7 3		
A 1.1		00 000 0	1,859	2 3
Add net output for year	• •	96,680 0 0		
Add surplus stocks	• •	104 1 0	00 701	1 0
			96,784	1 0
			98,643	3 3
31st March, 1947—				
Less stock in bin and yard				
Less stock on wharf		226 18 1		
			226	18 1
Total disposed of	• •		98,416	5 2
Disg	oosals	•		
-		Tons. cwt. qr.	•	
Shipped		66,340 14 3		
Railed to Canterbury, &c		15,202 6 1		
Railway sales		$5,321\ 10\ 2$		
Local and mine sales	٠.	7,837 8 0		
Sales to workmen and free issues		3,714 6 0		
			98,416	5 2

The gross output from the colliery since its inception totals 717,189 tons 3 cwt.

Days worked.—The colliery worked 232 days out of a possible 242 ordinary working days. In addition, the colliery worked 3 substituted statutory holidays, making the total days worked 235. The difference between the ordinary days worked, 232, and the possible number of working-days is accounted for as follows: 1 day, power failure; 2 days, slip on access road; 1 day, football match; 1 day, miners did not work; 1 day, dispute re pillars; 2 days, objection to employment of a labourer; 2 days, death and funeral of workman.

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 236 men and 6 boys, made up as follows—Underground: coal-hewers, 68; deputies, shiftmen, and truckers, 108. Surface: 60 men and 6 boys. Coal-hewers' Average Daily Earnings.—The coal hewers' average daily earnings

Coal-hewers' Average Daily Earnings.—The coal hewers' average daily earnings (gross) were £3 2s. 4d., and after deducting stores (explosives) their net return was £2 18s. 3d., an increase of 5s. 4d. per day when compared with the previous period.

Daily Output.—The average daily output was 422 tons 14 cwt. and the coal hewers' average daily output was 6 tons 18 cwt., as compared with 439 tons 16 cwt. and 7 tons 6 cwt. respectively for the previous year. The total number of hewer shifts for the year was 14,341.

Deficiencies.—There were no payments made under the minimum-wage clause during the year.

Accidents.—No serious accidents were reported at the Strongman Colliery during the year.

Stone-dusting.—Work under this heading was continued during the year. The total number of samples taken from the Strongman Colliery and analysed was 386.

Underground Workings.—All the coal from this mine has been won from developing places in the following sections: No. 2 North Heading, No. 3 North Heading, No. 1 South Dip in the No. 2 Seam, and the dip section from No. 1 North Heading in the No. 3 Seam.

No. 2 North: This section has been developed to the rise of the main drive, a distance of 40 chains. The section is approximately 20 chains wide and lies between the Armstrong and Doherty Faults. The coal-seam in this section is from 18 ft. to 22 ft. thick and is of very good quality. The workings have passed by No. 4 borehole and are approaching No. 3 borehole. These boreholes show an upper seam approximately 140 ft. vertical above the present workings 10 ft. to 15 ft. thick.

No. 3 North: This section has been developed 22 chains to the rise of the main

No. 3 North: This section has been developed 22 chains to the rise of the main heading. The section is only 10 chains wide and lies between the Doherty and Bob Faults. The estimated throw of the Doherty Fault near the top of the heading appears to be in the vicinity of 95 ft. vertical. This displacement from the main heading is increased from 35 ft. to 95 ft. If this increase is maintained, it appears that it will be possible to cross from No. 2 Seam in this section to No. 1 Seam in the No. 2 North Section.

More information is required before a final decision can be made.

No. 1 South Dip: This area was developed to the dip of the main No. 2 South Heading. After being driven a distance of 13 chains, the dip struck a fault and a section was developed to the South in No. 2 Seam. The level to the south was carried on 15 chains, when it was stopped, the coal-seam thinning to less than 6 ft. and carrying a number of stone bands.

Dip Section (Bottom Seam): This dip was driven from the No. 1 North Heading to the No. 3 Seam, and it is in the same block of country as the No. 3 North Heading in the No. 2 Seam. The dip was driven 20 chains when it struck the Bob Fault. A section to the rise is being developed, also a section to the dip. The places to the rise are now carrying stone bands. The places to the dip are in good clean coal 12 ft. thick.

BLACKBALL COLLIERY

Coal-winning.—The gross output for the year was 60,036 tons 15 cwt., a decrease of 1,386 tons 19 cwt. when compared with the figures for the previous year. After allowing for waste (1,330 tons 13 cwt.) and the quantity used on works (350 tons), there remained for disposal a net output of 58,356 tons 2 cwt.

Taking into account the stocks at the beginning and end of the year, the following statement shows details of the coal disposed of during the year:—

1st April, 1946— Stock in bin and yard		Tons ewt. qr. 1,850 4 1	Tons ewt.	. qr.
Stock on wharf	• •	•••	1,850 4	1
Add net output for year surplus stock taken on c			1,000 4	1
(204 tons 11 cwt. 3 qr.		••	58,560 13	3
01 - 34 1 1047			60,410 18	0
31st March, 1947—				
Less stock in bin and yard		$1,194 \ 18 \ 0$		
Less stock on wharf		$7 \ 1 \ 0$		
			$1,201\ 19$	0
Total disposed of			59,208 19	0
Di	sposals			
	*	Tons. cwt. qr.		
Shipped		$25,529 \ 11 \ \hat{0}$		
Railed to Canterbury, &c		18,392 10 0		
Railway sales	• •	9,397 9 0		
Local and mine sales	• •	4,522 19 0		
Sales to workmen and free issues		1,366 10 0		
			59,208 19	0

The gross output from the colliery since it was taken over by the State Coal-mines on 5th July, 1941, totals 284,803 tons 12 cwt.

Days worked.—The colliery worked 237 days out of a possible 242 ordinary working-days. In addition, the colliery worked 16 back Saturdays, 2 statutory holidays, and 3 substituted statutory holidays, making the total days worked 258. The difference between the ordinary days worked, 237, and the possible number of working-days is accounted for as follows: 2 days, union meetings; $\frac{1}{2}$ day, break in haulage; $\frac{5}{8}$ day, power failures; $\frac{5}{8}$ day, West Coast v. England football match; 1 day, fault in bathhouse boiler; $\frac{1}{4}$ day, election.

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 169 men and 4 boys, made up as follows:—Underground: coal-hewers, 51; deputies, shiftmen, and truckers, 91. Surface: 27 men and 4 boys.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £2 10s. 8d., and after deducting stores (explosives) their net return was £2 7s. 6d., a decrease of 6d. per day when compared with the previous period.

Daily Output.—The average daily output was 232 tons 14 cwt. and the coal-hewers' average daily output was 5 tons 14 cwt. 1 qr., as compared with 232 tons 13 cwt. and 6 tons 16 cwt. respectively for the previous year. The number of hewer shifts for the year was 10,510.

Deficiencies. —The total amount paid under the minimum-wage clause was $\pounds 144$ 8s. 10d.

Accidents.—In addition to numerous accidents of a minor nature 1 serious accident occurred on 19th December, 1946, when a shiftman sustained a fracture of the right ankle.

Underground Workings.—The whole of the mine is on double shift. Five pairs have been engaged extracting pillars, sixteen pairs developing in machine-cut places, and five pairs developing in pick places.

Continual undulations and numerous thinnings in the seam continue to hamper development and make it impossible to concentrate the miners and reduce haulage and trucking personnel. Moreover, excessive power in the form of winches, pumps, &c., is utilized. Extremely wet conditions in the working-places with the consequent short hours explains the particularly low output.

No improvement whatever has been achieved with the screen-coal percentage, which for the year has averaged approximately 30 per cent. The coal continues to be very soft and friable when mined, and present indications are that this percentage may be even lower during the coming year. A larger proportion of $\frac{1}{2}$ in. screen plates were installed during the year, but no worth-while improvement was noticeable.

Crow's Nest Section: Early in the year pillar-extraction was commenced here, as the whole of the section was surrounded by thin coal. Good working-conditions and high percentage of extraction has been obtained. No extra water whatever has resulted from pillaring.

Dunn's Dip: At present eight pairs are developing with the Korfmann machine. This dip has been driven $8\frac{1}{2}$ chains in a southerly direction during the year and is working coal around No. 1 Bore. Coal thickness varies up to 20 ft. and quality, on the whole is good. Undulations and thinning have seriously affected this section. All of these places are generally wet time. It has been intended to connect up this section with the Main and Tail Section so that by extending the endless rope better haulage could be provided. Thin coal, however, has been encountered when driving both from the Main and Tail side and the Dunn's Dip side, so that this scheme may have to be abandoned. Four chains of this connection remain to be driven.

15 C—2A

Main and Tail Section: At present four pairs are developing in pick places. During the year these two main south headings were each driven 3 chains through barren ground. High coal was proved and the section opened up with the Korfmann cutter. This high coal, however, only extended for $2\frac{1}{2}$ chains, when the seam again thinned. The places were persevered with and driven $3\frac{1}{2}$ chains at right angles to each other through coal varying from 4 ft. to 6 ft. thick. It has been necessary to keep the middle stone for a roof, and it will be difficult to keep these places open long as the stone is 10 ft. thick and will eventually disintegrate with the water and run as a slurry. All places are very wet. Although being continued, the prospects for this area are at present very poor indeed. If coal should be found in this direction, a major job would have to be faced in brushing through the various undulations and thinnings, and in all probability the middle stone would eventually have to be entirely filled out in order to maintain a haulage road and return airway.

Sump Dip: Ten pairs developing with the Jeffrey coal-cutter. This dip has been driven during the year $8\frac{1}{2}$ chains in a westerly direction parallel to the Main No. 1 Dip and is now $9\frac{1}{2}$ chains in advance of the latter. This section also has been badly retarded with thinnings and undulations. In the panel the levels on the right have all struck a floor roll which is cutting back towards the dip itself, so that each level has stopped 1 chain shorter than the previous one. All of these places are extremely wet and the ground is very heavy. Two headings have been started in a southerly direction off this section and are in line with, and only 1 chain away from No. 2 Bore. This bore is shown as "no coal," but present coal is of good quality and in the vicinity of 20 ft. thick. These two headings have also been extended on the other side of the section to within 40 yards of the Main No. 1 Dip face and will be connected as soon as No. 1 Dip is dewatered. They will then allow much closer haulage, which will be provided by an extension of the present endless-rope system. These headings should also open up a reasonably sure area of rise coal which lies to the dip of the abandoned South Dip.

Ventilation: During the year a concrete overcast was completed and the ventilation changed from a single circuit to two equal splits. The large amount of blackdamp given off in our dip workings requires a high velocity, and a 45 in. booster fan has been installed in the region of lowest pressure in each split for this purpose. A ventilation survey has been carried out, which proves that the greatest restrictions are still in the main return. Two men have been engaged the whole year straightening, enlarging, and retimbering this airway, but a large amount of work remains before it is in good order. Reinforced-concrete legs with railway rails for bars are being used here and appear to be very successful. The sections will quickly outgrow the effectiveness of booster ventilation, and the question of a larger main fan will soon have to be considered.

Pumping: Preparations have been completed for construction of a larger sump with a capacity of 1,250,000 gallons in what is known as "the old sump section." A level gangway, 4 chains long, has been built and a large concrete well. The former allows a short straight suction into the lowest part of the area, and the wall on which the pump will sit, is equipped with doors, &c., for easy cleaning. All the water from the dip workings will be gathered in this sump and pumped to the main borehole sump, and from there pumped up the borehole as at present. As there is only two and a quarter hours standage in the borehole sump, provision is being made to use the delivery from the new sump as a syphon so that the water from the borehole sump can be brought back into the larger standage area in the event of a long power failure. Although the mine continues to have excessively wet working-places, the total quantity of water remains constant, proving that the water follows the working-faces.

Early in the year No. 2 North Section was stopped because of excessive water. Small inrushes were occuring in all the working-places, and it was considered wiser to stop the section rather than risk another large inrush similar to that in No. 1 North. Since being stopped great difficulty has been experienced in keeping the main road open for a waterway. A concrete-block tunnel is at present being built through one particularly bad portion. It is essential that this water has a free passage, as if a blockage occurred it would flood the dip workings below.

It is worth noting the large amount of shift-work required simply to deal with water in this mine. For instance, outlets for water alone have to be maintained from No. 1 and No. 2 North Sections and also the old Blackball Mine. Without considering ordinary face pumping, six pumping sumps have to be kept in repair and regularly cleared of silt. Altogether, thirteen pumps are in actual use underground.

Installations: During the year a large concrete substation has been built and transformers, &c., installed. Power was connected in August, and a marked improvement has been achieved in face voltage. The high-tension power is fed through a borehole cable at 10,000 volts and transformed underground to 400 volts. The building has two compartments, high-tension end and low-tension end.

A new 50 h.p. endless haulage has been installed in the main south headings, and is so situated that it can also be used down No. 1 Dip when the latter is dewatered. The haulage is operated by automatic bell-stop and thrustor brake, and this has eliminated two winchmen. A considerable saving in skip repairs and rope has been made with this installation. Under the old main and tail system a $\frac{5}{8}$ in. rope lasted six weeks; the present $\frac{7}{8}$ in. rope should last one year.

A new 30 h.p. direct-haulage winch has been installed at the top of the Sump Dip to replace a small 15 h.p. slow-speed winch. A new 20 h.p. main and tail winch has been installed to handle the coal from the top of the Sump Dip to the endless-rope road. This haulage works exceptionally well on an undulating and winding roadway, replacing two small winches and winchmen.

A new 20 h.p. direct-haulage winch has been installed at the top of Dunn's Dip to replace an old 10 h.p. slow-speed winch.

All these sections are now equipped with haulage facilities which would handle more coal if the undulations and thinnings in the seam would allow us to concentrate our miners to a greater extent.

Surface: A stone chute has been erected at the delivery end of the underground conveyer belt and disposes of stone, &c., straight into the creek below. Instead of being compelled to stow all stone underground, it can now be sent to the surface during the ordinary coal-producing shift and dumped without requiring additional labour. This is a big advantage in a mine which has so many thinnings to contend with.

A new welding-shed has been erected as an extension to the main fitting-shop. This is a big improvement, as the arc does not now inconvenience the other workmen.

Summary: The difficult mining conditions due to excessive water and the changing nature of the seam make the maintaining of a steady output most difficult and it is impossible to forecast the future of any section from day to day. An example of this was the Main and Tail Section, which had four perfect places producing the highest outputs in the mine. Within one week every place struck thin coal with water pouring in, making the section unworkable from an output point of view. This happens continually, so that it is a struggle to have sufficient places on hand so that these low output places can be kept at a workable minimum. The two headings showing the most promise and working the best-quality coal are driving towards No. 2 Bore, which, as stated above, shows no coal.

Wallsend Colliery

Coal-winning.—The gross output for the year was 47,075 tons 4 cwt. 1qr., a decrease of 158 tons 4 cwt. 2 qr., when compared with the figures for the previous year. After allowing for waste (571 tons 1 cwt. 1 qr.) and the quantity used on works (1,840 tons), there remained for disposal a net output of 44,664 tons 3 cwt.

Taking into account the stocks at the beginning and end of the year, the following statement shows details of the coal disposed of during the year:—

1st April, 1946— Stock in bin and yard		511	19	Ô	Tons	ewt	q r.
Stock on wharf	• •	165	4	0			
					677	_	0
Add net output for year	• •		• •		14,664	3	0
					45,341	6	0
31st March, 1947—							
Less stock in bin and yard		376	4	1			
Less stock on wharf							
					376	4	1
Total disposed of			••		44,965	1	3
	Disposals						
	•	Tons.	cwt.	ar.			
Shipped		27,196					
Railed to Canterbury, &c		4,705					
Railway sales		10,874					
Local and mine sales		1,679					
Sales to workmen and free issu		510		0			
					44.965	1	3

The gross output from the colliery since it was taken over the by State Coal-mines on 22nd February, 1943, totals 216,683 tons 19 cwt. 2 qr.

Days worked.—The colliery worked $228\frac{1}{4}$ days out of a possible 242 ordinary working-days. In addition, the colliery worked 5 back Saturdays, 1 statutory holiday, and 3 substituted statutory holidays, making the total days worked $237\frac{1}{4}$. The difference between the ordinary days worked, $228\frac{1}{4}$, and the possible number of working-days is accounted for as follows: $8\frac{1}{4}$ days, monthly union meeting, &c.; 1 day, funeral of employee; 1 day, damaged loading-bank; $\frac{1}{4}$ day, football match; 1 day, gas accumulation; 2 days, fan stoppages due to power failures; $\frac{1}{4}$ day, election day.

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 138 men and 5 boys, made up as follows—Underground: coal-hewers, 39; deputies, shiftmen, and truckers, 75. Surface: 24 men and 5 boys.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £3 0s. 6d., and after deducting stores (explosives) their net return was £2 17s. 6d., an increase of 8s. 2d. when compared with the previous period.

Daily Output.—The average daily output was 198 tons 8 cwt. 2 qr. and the coal-hewers' average daily output was 6 tons 16 cwt. 3 qr., as compared with 200 tons 0 cwt. 2 qr. and 6 tons 8 cwt. 2 qr. respectively for the previous year. The total number of hewer shifts for the year was 6,881.

Deficiencies.—The total amount paid under the minimum-wage clause was £2 11s. 9d.

Accidents.—In addition to numerous accidents of a minor nature, 1 serious accident occurred on 9th October, 1946, when a shiftman was struck in the small of the back by a fall of side coal which resulted in him receiving a fracture of the spine in the right lumbar region.

Underground Workings.—No. 1 Dip: Six pairs have been engaged in finishing the development in this section and have now commenced splitting on the retreat. In the area between the roll and the fault a distance of approximately $3\frac{1}{2}$ chains was driven until cut off by the two converging faults. A good deal of prospecting was done on the fault side of this area with negative results. Owing to the dusty nature of the coal in this section, only six hours per day have been worked for the greater portion of the period under review.

No. 2 Dip: One pair of miners has been engaged for the period brushing the dip as the water-level was lowered and latterly in driving the bottom level on the west side to the Taylorville Fault. The Korfmann machine has been in use in this place and is giving good results. The water has been removed from the whole of the No. 2 Dip and the pump shifted to the machine dip area, and this has been pumped down approximately 27 yards. The concrete-block stoppings have been erected down to this point and the machine level brushed into the top of the machine dip.

No. 1 Slant Dip: Owing to adverse roof conditions and to the slow rate of retreat, partly due to the working of six hours only due to the places being dusty, it has only been possible to keep four pairs in this section for the latter half of the year.

No. 2 Slant Dip: Three pairs of miners have been engaged in splitting the pillars on a line parallel to the barrier and have reached a point approximately half a chain on the outbye side of the old dip. Good results have been attained in this section owing to splitting commencing immediately the barrier was reached, in direct contrast to our experience in No. 1 Slant Dip, where the pillars had stood for a long time. A good deal of trouble has been experienced with the pumping in this section owing to the corrosive nature of the water to be pumped.

Extension Section: Six pairs now engaged in splitting in the retreat. Development was completed during the year owing to the low coal area cutting the section off. Splitting was commenced along the top airway, while a new main jig behind the present jig was constructed and a slant dip put down to work the two rows of pillars below the main level. Splitting is continuing on the retreat on the line of dip. A good deal of trouble and expense is occasioned by the continuous creep in these low workings and the slow rate of retreat, chiefly caused by shortage of men.

The new 6 in. compressed-air line has been installed and is proving beneficial.

The main return airway between No. 2 Dip and the bottom of the Upcast Shaft has been timbered and partially cleaned up, but a good deal more work still requires to be done here.

The new airway has been driven, and as soon as the undercast has been erected we will put it into commission.

One pair of miners has been engaged in driving a new airway between A Panel and the Slant Dip return, as the companion is closed along this stretch.

DOBSON COLLIERY

Coal-winning.—The gross output for the year was 59,379 tons 17 cwt., an increase of 4,799 tons 17 cwt. 2 qrs. when compared with the figures for the previous year. After allowing for waste (1,341 tons 15 cwt. 2 qr.) and the quantity used on works (232 tons 4 cwt.), there remained for disposal a net output of 57,805 tons 17 cwt. 2 qr.

Taking into account the stocks at the beginning and end of the year, the following statement shows details of the coal disposed of during the year:—

1st April, 1946—		Tons ewt. q	r. Tons ewt. qr.
Stock in bin and yard	·	1,765 2 ()
Stock on wharf		211 - 2 = 0)
			-1,976 4 0
Add net output for year		• •	57,805 17 2
			$\frac{1}{59,782}$ 1 2
31st March, 1947—			
Less stock in bin and yard		1,769 7 2	2
Less stock on wharf			
			1,769 7 2
Total disposed of \dots			58,012 14 0
L	is posals		
		Tons. cwts. q	r .
Shipped		$33,787$ 5 $\bar{0}$)
Railed to Canterbury, &c		18,245 13 ()
Railway sales		3,767 18 ()
Local and mine sales		767 4 ()
Sales to workmen and free issue	s	1,444 14 ()
			- 58,012 14 0

The gross output from the colliery since it was taken over by the State Coal-mines on 22nd February, 1943, totals 244,024 tons 17 cwt. 2 qr.

Days worked.—The colliery worked $229\frac{3}{4}$ days out of a possible 242 ordinary working-days. In addition, the colliery worked 8 back Saturdays and 3 substituted statutory holidays, making the total days worked $240\frac{3}{4}$. The difference between the ordinary days worked, $229\frac{3}{4}$, and the possible number of working-days is accounted for as follows: $3\frac{1}{2}$ days, union meetings; 3 days, power failures; 3 days, funerals of employees; $\frac{1}{4}$ day, football match; 1 day, dispute re jack-hammers; 1 day, fault in signal system; $\frac{1}{4}$ day, screen breakdown; $\frac{1}{4}$ day, election.

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 194 men and 7 boys, made up as follows—Underground: coal-hewers, 46; deputies, shiftmen, and truckers, 115. Surface: 33 men and 7 boys.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £2 19s. 10d., and after deducting stores (explosives) their net return was £2 16s. 6d., an increase of 6s. 2d. per day when compared with the previous period.

Daily Output.—The average daily output was 246 tons 12 cwt. 3 qr. and the coal-hewers' average daily output was 6 tons 4 cwt. 2 qr., as compared with 239 tons 15 cwt. 2 qr. and 6 tons 8 cwt. 3 qr. respectively for the previous year. The total number of hewer shifts for the year was 9,544.

Deficiencies.—The total amount paid under the minimum-wage clause was £218 8s.

Accidents.—The usual number of minor accidents occurred at the colliery during the year, but there were none of a serious nature.

Underground Workings.—5 West: Completion of stone drive to give this section better haulage and ventilation. This section has been one of the best so far in the mine, but is now affected by some small faulting which originated in the 4 West Section. While this is not likely to be of serious dimensions, more information should be available before meeting the main Dobson Fault.

Main Dips: The main dips have been driven continuously during the year and have now changed to level grade. In fact, No. 2 Dip is now rising slightly and is within 5 chains of the borehole 252, which proved 10 ft. of good coal. On the west side of No. 2 Dip the No. 3 Dip, which is the main west return, has struck a downthrow fault. Eighteen feet was sunk on this fault, but did not find the bottom. It is now proposed to bore the fault with a diamond drill. This fault, running north and south, was first struck in the 5 West Section, where a dip extends down behind it in good coal. However, for haulage and ventilation reasons it must be negotiated on the main dips. It is the intention to extend the main endless ropeway to the point in No. 1 Dip where the grade levels out, and there make a permanent terminus. This point will be about 20 chains beyond the present terminus at No. 4 Level and will be the limit of the power of the existing haulage.

East Side: The No. 2 East Dip is still being developed, but no work has been done farther east, mainly on account of haulage and ventilation difficulties. The full pitch of the seam is now almost due north and south and is very steep, being about 1 in 13, and will require provision for both haulage and ventilation.

Ventilation: A contract has been let to enlarge the main return, and the work is now about three parts completed. When this is done, the fan will be speeded up by installing a 200 h.p. motor and a new V-belt drive. This should provide 40,000 cubic feet more ventilation than at present. All old sections have been sealed off and all possible air directed to the working-places, but as the places are 1,500 ft. below sea-level the temperatures in some of the places are high by New Zealand standards. Some form of auxiliary fan must eventually be adopted if places are to be worked to the rise in the steep East side.

Pumping: A new station and pump has been built at the bottom of the main stone drive. Electric cable has been laid to the first stage in No. 1 Dip, and an electric pump will soon replace the air-driven pump at this station and will relieve the demand on the compressed-air plant.

New Pumps: Three 4 x 6, three 6 x 8 plunger pumps, and one 16 x 8, all air driven, have been received during the year and are now mostly in use. There has been an increase in the amount of water pumped out of the mine, and an extra shift's pumping each week-end is necessary to keep the water down.

The use of air-driven drills for boring shotholes is now universal.

The prospects for the future working of this mine are good for many years.

I have, &c.,

C. J. Strongman, Superintendent.

The DISTRICT MANAGER, State Coal-mines, Reefton, to the Under-Secretary, Mines Department, Wellington.

Sir,— 28th April, 1947.

I have the honour to submit my annual report on the workings of the Burke's Creek and Garvey Creek State Coal-mines and Wangaloa Opencast for the year ended 31st March, 1947.

BURKE'S CREEK COLLIERY

Coal-winning.—This colliery was acquired by the State on 3rd June, 1946. The gross output for the ensuing period ended 31st March, 1947, was 14,453 tons 10 cwt. After allowing for loss on measurement and waste (599 tons 18 cwt. 1 qr.) and the quantity used on works (278 tons 10 cwt.), there remained for disposal a net output of 13,575 tons 1 cwt. 3 qr.

Taking into account stocks on hand at the date of acquisition and at the end of the year, the following statement shows details of the coal disposed of during the period:—

3rd June, 1946—			$_{ m Tons}$	ewt.	qr.	$_{ m Tons}$	cwt.	qr.
Stock in bin and yard								-
Add net output for perio		٠.				13,575	1	3
Add surplus stocks take		rge				96		0
						13,671	$-\frac{1}{7}$	3
Less stock on hand			81	0	0	,		
Less stock on dump			40	0	0			
1					_	121	0	0
Total disposed of						${13,550}$	7	3
	Dispe	sals						
	1		Tons	ewt.	qr.			
Shipped			326	3	3			
Railed to Canterbury, &c.			11,868	9	0			
Railway sales			8	1	0			
Local and mine sales			1,095	14	0			
Sales to workmen and free			252	0	0			
						-13 - 550	7	3

The gross output of the colliery since its acquisition by the State on 3rd June, 1946, totals 14,453 tons 10 cwt.

Days worked.—During the period 3rd June, 1946, to 31st March, 1947, the colliery worked 200½ days out of a possible 201 ordinary working-days. In addition, the colliery worked 13 back Saturdays, and 5 statutory holidays, making the total days worked 218½. The difference between the ordinary days worked, 200½, and the possible number of working-days is accounted for as follows: 1 day shift (counted as half a day), fall on the main dip.

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 52 men and 3 boys, made up as follows—Underground: coal-hewers, 14; deputies, shiftmen, and truckers, 26. Surface: 12 men and 3 boys.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £2 7s. 7d. per day, and after deducting stores (explosives) their net return was £2 4s. 4d. per day.

Daily Output.—The average daily output was 66 tons 3 cwt. and the coal-hewers' daily output was 5 tons 6 cwt. The total number of hewer shifts for the period was 2,733.

Deficiencies.—The total amount paid under the minimum-wage clause was £12 13s. 10d.

Accidents.—One serious accident occurred at this colliery. On 11th March, 1947, a shiftman sustained a crushed foot, with subsequent amputation of first joint big toe, total second toe, and end joints third and fourth toes, as a result of his foot being run over by a loaded coal-truck.

Stone-dusting.—This work was carried out regularly in the dry portions of the mine.

Underground Workings.—Since this colliery was acquired by the State Coal-mines an endeavour has been made to maintain a moderate output and at the same time to recondition and develop the mine.

Development.—North-east Levels: From the Friction Dip, development levels have been driven to a distance of 16 chains to the north-east in coal of average thickness and good quality. At a distance of 14 chains from the new dip a sharp roll was encountered in the bottom level which, though it does not dislocate the seam, affected both the strike and dip. This level is now 6 chains past the line of the continuation of the Main Dip, and a rise heading in line with the Main Dip has been commenced which, when completed, will serve for the extension of the present main haulage.

The old Harris Dip, last worked in 1941, was dewatered, reconditioned, and connected through to the bottom level. This dip will be used as a haulage for coal from the cast side of the Bottom Level Section until the Main Dip extension is completed.

Development to South-west: Prior to the mine being acquired by the State, development of the bottom south-west levels was stopped at 7 chains from the New Dip. The coal in this locality is soft and of inferior quality.

Development to the Dip North-west: A winch is now being installed in the bottom level to be used for sinking a prospecting dip in line with the main return heading.

Reconditioning.—Extensive repair work has been done in the Main Dip and the lower sections of the return airway. The former was widened, retimbered, and regraded to permit the use of a carriage for the transport of workmen.

Winches.—The 15 h.p. electric winch used for haulage from the Slant Dip Section was replaced by a 30 h.p. winch.

Pumps.—The installation of a new 3 in. seven-stage pump in the lower workings, along with the reconditioning of other installations, has eased the pumping problems of the mine.

Fires.—Three clay and block stoppings were put in early in the New Year to seal off a heating in the waste at the inbye end of the Slant Dip pillar section. In addition, four clay and block stoppings were erected to reinforce the existing stoppings of an old fire area.

Coal-production.—The output was obtained from development in the bottom northeast levels and from pillar-extraction in the Slant Dip Panel.

The colliery is now equipped and developed for an output at least 50 per cent. greater than can be obtained with the limited number of workmen available.

Surface.—A concrete winch-house was erected and a new 75 h.p. winch and a carriage for workmen installed for the Main Dip Haulage.

Buildings.—Army ration stores have been transported from Blenheim for re-erection at the mine and in Reefton as a mine store, district office, and garage respectively.

Railway.—The reconditioning of the mine railway was commenced early in the New Year. Preliminary surveys for the railway extension to the mine were completed and plans and estimates prepared for bins and screening plant.

GARVEY CREEK MINE

This mine is not yet in production.

Owing to the abnormally wet spring and early summer and the difficult country, the access road to the mine was not completed until December, consequently the erection of mine buildings and screens was not commenced until early in the New Year.

An extensive slip at the terminus together with unstable foundations necessitated a re-location of this portion of the access road, the re-siting of the mine buildings, screening-plant, &c., the driving of a short rock tunnel, and the construction of a sidling tramway.

A screening-plant is now installed; storage bins and mine buildings are in course of erection.

The clearing of debris along the outcrop of the vertical seam above the mine mouth on the north-west side of Garvey Creek was commenced early in the New Year. This work and also the construction of a sidling tramway between the outcrop on the southeast side of the creek and the screens have been delayed by bad weather and difficulty in obtaining suitable plant.

Four prospecting drives, two to the north-west and two to the south-east, were driven in the vertical seam in Garvey Creek. These drives and crosscuts driven from them have proved the seam in the vicinity of the proposed mine entrance to exceed 50 ft. in thickness from wall to wall. The coal in this locality is of good quality, of coking rank, and of varying degrees of hardness. On the north-west side of the creek the seam in the prospecting tunnels is intersected by a narrow zone of stone and dirt bands. This zone appears to thicken to the south-east and splits the seam in that direction. To the north-west irregular intrusions of stone and shale occur in various parts of the seam. This seam has been traced by surface prospecting for a distance of 34 chains north-west of Garvey Creek and for 10 chains to the south-east of the creek. The average thickness exceeds 25 ft., and with minor exceptions the coal is hard and of good quality. The dips vary from 60 to 90 degrees from the horizontal.

Sixteen men are employed on prospecting work, development, and the erection of plant.

WANGALOA OPENCAST

This opencast, which is operated by the Public Works Department on behalf of the State Coal-mines, produced 32,023 tons of coal.

The following report covers the operations of the opencast for the year ended 31st March, 1947.

Stripping.—The first line of stripping down the swamp has progressed, in spite of difficulties of weather and terrain, to the probable limit of opencast mining, and a start has been made on a second cut on the south side of the valley. Up to the present no back-filling to the open cut has been possible, but when this procedure becomes practical a consequent increase in stripping-rate and lowering of costs should follow.

Approximately 103,000 cubic yards of stripping has been excavated during the year, and at 31st March, 66,000 cubic yards of this was advance stripping, representing 42 per cent. of the stripping over approximately 50,000 tons of coal, roughly 12,000 tons of this coal being completely exposed.

These figures are necessarily only approximate, as a seam of mixed coal and mudstone of varying thickness lies over all the good coal. Of this seam, which attains up to 12 ft. of thickness, an average of 50 per cent. is saved as good coal by the use of drag-line and Marshall dump-car.

The figures of stripping have fluctuated considerably, the work being held up by the excessively wet spring, but this was compensated for by working long hours to take advantage of the long spell of dry weather in the autumn, when a peak output of 19,283 cubic yards was attained for March.

The main drainage scheme has been completed, and though future bad weather may delay stripping, coal-production should not be retarded, even though water still has to be pumped from the face.

Coal Output.—Monthly output of coal rose from 1,296 tons in March, 1946, to 3,452 tons in March, 1947, with a total output of 32,759 tons for the year.

During the year dross had to be stock-piled at the bins to the extent of 783 tons, but the total output is going forward at present and the balance on hand will probably be disposed of during the coming winter. No coal was extracted from Smaill's Lease during the year.

Plant.—Earth-moving plant on the job at 31st March included four D8 tractors, three with blades; four 12-cubic-yard carryalls; one $3\frac{1}{2}$ -cubic-yard carryall; two RD7 tractors, complete with blades; one D4 tractor with blade; one McD. tractor, 20 h.p., complete with blade; one rooter; one excavator drag-line, $1\frac{1}{2}$ cubic yards capacity; one Diesel shovel, $\frac{1}{2}$ cubic yard capacity; one Marshall dump-car; and, having regard to the conditions prevailing from time to time, this plant has handled the job satisfactorily.

Labour.—The number of men employed is 19, including face men, plant operators, and mechanics, apart from the 3 contract truck-drivers.

No labour hold-ups or absenteeism have been experienced, though time was lost during the Kaitangata coal strike, as no coal could be despatched on the company's siding.

Buildings.—A permanent camp to accommodate the miners has been erected on leasehold property in Kaitangata, and married quarters for the overseer have also been completed.

I have, &c., R. T. H. Dale, District Manager.

The District Manager, State Coal-mines, Ngakawau, to the Under-Secretary, Mines Department, Wellington.

SIR,-

8th May, 1947.

I have the honour to submit my report on the workings of the Stockton State Mines for the year ended 31st March, 1947.

Output.—The gross output for the year from the Fly Creek and Webb Mines and the E Hill Opencast was 237,460 tons 4 cwt., an increase of 22,238 tons 19 cwt. 2 qr. when compared with the previous year. Gross outputs of the individual mines were as follows:—

			Tons	ewt.	qr.	
Fly Creek Mine	 ••	 	38,804	8	$\hat{2}$	
Webb Mine	 	 	58,010	19	2	
E Hill Opencast	 	 	140,644	16	0	
			237,460	4	0	

After allowing for waste (520 tons 4 cwt.) and coal used on works (5,250 tons), there remained for disposal a net output of 231,690 tons.

Taking into account the stocks at the beginning of the year, the following statement shows details of the coal disposed of during the year:—

1st April, 1946— Stock on wharf		Tons 2,181	ewt. 18		Tons	cwt.	\mathbf{qr}
Stock in bins and yard		1,252	4	3	9 494	9	3
Add surplus stock take	en oi)		-	3,434	2	9
charge					1,350	0	0
Add net output for year			•		231,690		0
					236,474	2	3
31st March, 1947—					•		
Less stock in bins and yard		1,792	7	1			
Less stock on wharf		1,067	10	0			
				a reconstance	2,859	17	1
Total disposed of					233,614	5	$\overline{2}$
	Dispe	osals					
		Tons	ewt.	qr.			
Shipped		159,665	9	Ō			
Railed		6,696	2	1			
Railway sales		47,639	6	1			
Local and mine sales		18,361	15	0			
Workmen and free issues		1,251	13	0			
					233,614	5	2

The gross output of the collieries since being taken over by the State on 1st July, 1944, totals 561,635 tons 3 cwt. 3 qr.

Days worked.—Fly Creek Colliery worked 230_5^8 days out of a possible 242 days. In addition, the colliery worked 2 back Saturdays and 3 statutory holidays, making the total days worked 235_5^8 days. The difference between the ordinary days worked, 230_5^8 , and the possible number of working-days is accounted for as follows: disputes, 8_8^3 days; no transport, 1 day; football match, 1 day; burnt-out motor, 1 day.

Webb Colliery (previously D Hill) worked $231\frac{1}{4}$ days out of a possible 242 days. In addition, the colliery worked on 2 back Saturdays and 3 statutory holidays, making the total days worked $236\frac{1}{4}$ days. The difference between the ordinary days worked, $231\frac{1}{4}$, and the possible number of working-days is accounted for as follows: disputes, $8\frac{3}{4}$ days; no transport, 1 day; burnt-out motor, 1 day.

E Hill Opencast worked $231\frac{5}{6}$ days out of a possible 242 days. In addition, the colliery worked 12 back Saturdays and 3 statutory holidays, making the total days worked $246\frac{5}{8}$. The difference between the ordinary days worked, $231\frac{5}{8}$, and the possible number of working-days is accounted for as follows: disputes, $8\frac{3}{8}$ days; no transport, 1 day; burnt-out motor, 1 day. (Note.—Only one motor was burnt-out, but it affected the three collieries.)

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 300 men and 20 boys, made up as follows—Underground: coal-hewers, 60; deputies, shiftmen, and truckers, 77. Surface: Open-cast machine operators and truck-drivers, 32; men, 131; boys, 20.

Coal-hewers' Average Daily Earnings.—Fly Creek Colliery: The coal-hewers' average daily earnings (gross) were £3 4s. 11d., and after deducting stores (explosives) their net return was £3 2s., an increase of 7s. 2d. per day when compared with the previous period.

Webb Colliery: The coal-hewers' average daily earnings (gross) were £3 10s. 4d., and after deducting stores (explosives) their net return was £3 4s. 7d., an increase of 7s. 11d. per day when compared with the previous period.

Daily Outputs.—Fly Creek Colliery: The average daily output was 164 tons 13 cwt. 2 qr. and the coal-hewers' average daily output was 7 tons 7 cwt. 2 qr., as compared with 225 tons 15 cwt. and 7 tons 1 cwt. 1 qr. respectively for the previous year. The total number of hewer shifts worked was 5,264.

Webb Colliery: The average daily output was 245 tons 11 cwt. and the coal-hewers' average daily output was 8 tons 9 cwt. 2 qr., as compared with 151 tons 11 cwt. and 7 tons 15 cwt. 2 qr. respectively for the previous year. The total number of hewer shifts worked was 6,843.

E Hill Opencast: The average daily output was 570 tons 5 cwt. 2 qr., as compared with 457 tons 15 cwt. 2 qr. for the previous year.

Accidents.—There were 132 accidents during the year, 4 of them being serious.

Underground Workings.—Fly Creek Mine: Operations were mainly confined to pillar-extraction in the South-west, No. 2, No. 4, and No. 5 Sections in excellent coal. In No. 2 Section extraction was completed. In the South Section, development continued in difficult heavy wet ground to the outer edge of the coal basin and extraction commenced. Extremely wet and unpleasant conditions were met with in the South and No. 5 Sections. In all other parts the working-places were wet, some extra wet from time to time.

In the East area, preparations have been made to introduce the hydro method of mining in the recovery of a large area of pillar coal, including the East opencast area and many pillars in and around the old Fire area. This system of work where the grades are so suitable and a plentiful supply of water available will ensure safer working-conditions for the men, much more economical working, and a very much higher percentage recovery than is possible with any other system of work.

Webb Mine: This new mine has developed satisfactorily. The main headings have advanced a further 14 chains—a total distance of 29 chains from the mine entrance—in good coal. Three panels have been formed to the south, providing good working-conditions for the men, also ensuring economy in coal winning and hauling.

The plan and arrangement of work in this mine has been laid out with a view to complete mechanization in the near future. Up until recently the coal was comparatively thin and for several chains the roof was very wet and heavy, having over 20 ft. of mudstone immediately above the coal, entailing very costly work in heavy timbering. The main headings have now advanced beyond the bad ground into thick coal (17 ft.), where conditions are much drier and ideally suitable for mechanized mining in all other respects. Bores ahead prove that the coal thickens to over 30 ft. in the line of development to a distance of 30 chains beyond the present heading faces.

In the Old Mine area, development was completed to the boundary of the barren belt and pillar-extraction commenced. South-west of and adjacent to Webb Mine a fairly large area of good coal suitable for opencasting has been proved, the nature and thickness of overburden render it unsuitable for underground mining.

The ambulance-room and new workshops, including substation, have been completed. A new and more suitable bin has been built, providing greater storage capacity and much more expeditious loading facilities than was possible with the temporary chute structure.

E Hill Opencast Mine: A regular high output was maintained from the mine. The thickness of overburden has increased to about the limit that can be economically dealt with by the present equipment. Consideration is being given to the types and sizes of machines that will be required to ensure planned development and economical recovery of the coal from large areas beyond the present workings where the overburden is still greater.

A recent survey of adjacent areas has proved substantial reserves of coal suitable for open casting, fully justifying the expenditure required to purchase the right type of machines to ensure efficiency and economy in the operations.

The survey party under Mr. McCormick's direction have prospected about 5,000 acres, completing a detailed survey on Block 1 comprising 550 acres, proving 636,800 tons of excellent coal in this area. This work provides detailed structural and topographical contour maps which are an invaluable guide in planning the layout of opencast mines. A much greater area has yet to be surveyed.

The cost of maintenance of the locomotives and locomotive road has been extremely heavy. The locomotives have about reached the end of their useful life, frequent breakdowns occurring that cannot be provided against because of the age and condition of

the plant.

Tenders have been called for the erection of an aerial haulage unit to replace the

present haulage system.

Extensive alterations and repairs are being made to the main bins at Ngakawau. Alterations and additions to the Ngakawau office have been completed, providing a suitable drawing-office and very necessary improvements to other parts.

I have, &с., Т. МсСніє, District Manager.

THE DISTRICT MANAGER, State Coal-mines, Bennydale, to the Under-Secretary, Mines Department, Wellington.

SIR,-

29th May, 1947.

I have the honour to submit my report on the working of the Mangapehi and Tatu Mines and the Waitewhena Opencast for the year ended 31st March, 1947.

MANGAPEHI COLLIERY

Output.—The gross output for the year was 53,940 tons 12 cwt., a decrease of 4,171 tons 2 cwt. when compared with the figures for the previous year. After allowing for waste (1,442 tons 12 cwt.) and the quantity used on works (949 tons), there remained for disposal a net output of 51,549 tons.

Taking into account the stocks at the beginning and end of the year, the following statement shows details of the coal disposed of during the year:—

1st April, 1946— Stock in bins and yard			wt. qr. 7 0	Tons	ewt.	qr.
Add net output for year		51,549	0 0			
				51,559	7	0
31st March, 1947— Less stock in bin and yard				139	17	()
Total disposed of				51,419	10	0
	Disposat	's				
	1	Tons c	wt. qr.			
Local and mine sales		1,024	$5 - \theta$			
Railed		49,781	5 - 0			
Sales to workmen and free issue.	s	614	$\theta = 0$			
		era v roma desadencia di architecto di architecto	The second second second	51,419	10	0

The gross output since the colliery was taken over by the State Coal-mines to date is 349,838 tons 2 cwt.

Days worked.—The colliery worked on $228\frac{1}{16}$ days out of a possible 242. In addition, the colliery worked on 13 back Saturdays and 5 statutory holidays, making the total days worked $246\frac{1}{16}$. The difference between the ordinary days worked and the possible number of working-days is accounted for as follows: $6\frac{1}{2}$ days, disputes; $4\frac{1}{16}$ days, stop-work meetings; $\frac{1}{2}$ day, power failure; $2\frac{1}{8}$ days, mechanical breakdowns; $\frac{1}{2}$ day, transport; $\frac{1}{4}$ day, election.

Employees.—In connection with coal-winning, there were employed in and about the mine an average of 123 men and 2 boys, made up as follows—Underground: coal-hewers, 34; deputies, shiftmen, and truckers, 66. Surface: 23 men and 2 boys.

Daily Earnings.—The coal-hewers' average daily earnings were (gross) £2 18s. 4d., and after deducting stores, 2s. 4d., their net return was £2 16s., a decrease of 11d. per day when compared with the previous year.

Daily Output.—The average daily output was 219 tons 4 cwt. and the average per coal-hewer was 8 tons 2 cwt., as compared with 234 tons 7 cwt. and 8 tons 18 cwt. for the previous year.

Deficiencies.—No amounts were paid under the minimum-wage clause during the year.

Accidents.—During the year there were no accidents of a serious nature. The number of minor accidents necessitating absence from work for three days or more was 73.

Underground Workings.—Development has been confined to the No. 2 East, where a pair of headings has now reached a point 32 chains from the junction of the main dip. General conditions in this area are uniform, with coal of excellent quality throughout the section, and rise panels can now be developed.

For the proposed introduction of hydraulic stowing a new portal has been formed, which involved driving approximately 3 chains, of which distance the first chain was in stone.

Production for the year has been from pillaring in the No. 2 West, No. 2 East, and No. 1 East rise panels, the latter section coming into production when, in December, the West Section was permanently sealed after the extraction of the last pillars.

Repeated instances of spontaneous heating were experienced in both pillar sections, with live fires occurring at times, while general heating in the floor throughout increased the difficulties. Water-mains have been installed throughout to deal with heatings.

Floor heave, excessive in some areas, created additional deadwork, and this in the No. 1 East haulage roadway and return involved months of roof brushing and reconditioning. While the work was mainly on coal, excessive extras applied, with man-shift production much below that from solid places.

Pillaring results in Mangapehi Mine, due to the percentage of miners accustomed to this class of work being very low, are very disappointing, and, with the completion of the extraction of the panels now operating, changes in the development system will be made.

This, briefly, will be by retreating from the rise in each panel with pillaring immediately following the completion of the bords, with only roadway and air-course through the solid block of coal below the working-faces.

The altered system, designed to meet changed conditions encountered in the lower levels due to additional cover and extension of workings, should make a decided improvement and permit of concentration in smaller areas. The flushing system is being introduced and perfected to meet the conditions existing.

The output, which has declined, has been below expectations, absenteeism being a contributing factor. A shortage of men and a drift from the mines has followed the cessation of hostilities overseas, and applications for work from experienced men are rare.

29 C—2_A

The shortage of man-power, combined with additional maintenance in the mine, has prevented development and prospecting in the lower dip. Heavy creep recently experienced in this area, adjacent to faulting, may cause a change of plans to be made, and dip development off the lower East level in uniform country to be decided upon.

During the year no serious accident occurred, while each instance of underground

fire occurring was successfully sealed.

Township.—The increase in housing accommodation in the township for the year was six modern five-roomed cottages erected on co-operative contract. Contracting firms and carpenters generally are hard to find in the country or for rural work.

A painting contract for twenty of the first houses erected has been let, but a start

has not yet been made with this work.

A modern electric bakery has been erected in the township, this filling a long-felt want, while inquiries for a section to open a butchery have been made by two returned soldiers who recently purchased the Mangapehi butchery.

Roads in the newer section of the township have been metalled, and improvements in the standard of Ellis Road, with grading and alignment, to be followed by metalling to highway standard, is now under way. The latter is the responsibility of the Waitomo

County.

Recreation-ground.—A croquet-lawn, $\frac{1}{3}$ acre in area, has been laid down and suitably fenced and should be in readiness for the coming season.

Football, basketball, and softball are now being played on the main grounds, and by a combined voluntary effort sponsored by the footballers a change-room pavilion is

being erected.

The ground will require further top-dressing and heavy rolling, with drainage in parts to effect the desired improvement; and the sealing of the tennis-courts should be proceeded with prior to the opening of the season.

TATU COLLIERY

Coal-winning.—The gross output for the year was 34,377 tons 5 cwt., an increase of 1,804 tons 9 cwt. when compared with the previous year. After allowing for waste (1,776 tons 17 cwt.) and the quantity of coal used on works (225 tons 9 cwt. 2 qr.), there remained for disposal a net output of 32,374 tons 18 cwt. 2 qr.

Taking into account the stocks at the beginning and end of the year, the following

statement shows details of the coal disposed of during the year:

1st April, 19	46			Tons ewt. qr	Tons	cwt.	qr.
Stock in b	in			90 0 0			-
Add ne	t output			32,374 18 2			
$\operatorname{Add}\operatorname{sur}$	plus stocks tal	ken on cha	arge	$142 \ 11 \ 0$			
	1				32,607	9	2
31st March,	1947				,		
Less stock					77	0	0
To	tal disposed of	f			32,530	9	2
		Dier	osals				
		D_{iop}	oowio	Tons cwt. qr.			
Railed				30,427 19 0			
Mine sales				1,445 5 2			
Workmen				602 9 0			
Free coal				54 16 0			
					32.530	9	2

The gross output from the colliery since inception amounts to 174,588 tons 4 cwt. Days worked.—The colliery worked on 226\(^1_8\) days out of a possible 242. In addition, the colliery worked on 5 statutory holidays, making the total days worked 231\(^1_8\). The difference between the ordinary working-days worked and the possible working-days is accounted for as follows: $2\frac{1}{2}$ days, union meetings; 2 days, funerals of ex employees; $5\frac{1}{3}$ days, disputes; $\frac{5}{3}$ day, mine declared wet; $1\frac{3}{3}$ days, extra Christmas holidays; $\frac{1}{2}$ day, breakdown of bus; $\frac{1}{4}$ day, election; $3\frac{1}{3}$ days, floods.

Employees.—In connection with coal-winning, the average number of men employed in and about the mine were 93 men 5 boys, made up as follows—Underground: hewers, 20; deputies, shiftmen, and truckers, 38. On the surface: 35 men and 5 boys. Total, 98.

Coal-hewers' Daily Average Earnings.—The coal-hewers' daily earnings were (gross) \$\pmu 3\$ 18s. 8d. After deduction of expenses their net return was \$\pmu 3\$ 13s. 6d., a net increase of 10s. 9d. per day when compared with the previous year.

Daily Output.—The average daily output was 148 tons 14 cwt. 3 qr. and the average daily output per coal-hewer was 8 tons 17 cwt., compared with 153 tons 7 cwt. and 8 tons 14 cwt. respectively for the previous year.

Accidents.—During the year there were numerous minor accidents. A large proportion of these were bruises and cuts and several cases of strains.

Workings.—Development continued to the south-west by a pair of headings off the main heading which was abandoned about three years ago when, after driving for upwards of 4 chains in a diminishing seam finally less than 4 ft., it was decided to concentrate on another area.

The extension of this development was continued with encouraging results, with places later extending beyond and in front of the original heading face, where it was found the seam had thickened to upwards of 7 ft.

The general conditions also had shown a decided improvement, with fairly good roof and good-quality coal, and on driving back to intersect the main heading face it was found that thin coal only extended about a chain beyond the point at which development previously ceased.

This section has proved equal to the best so far met in the mine, and it is unfortunate that the area is limited to a block 10 chains in width between two parallel faults, but from the point now reached it should be possible to extend beyond the workings of the Old Egmont Co., of which favourable reports are on record.

The output from the number of miners engaged has been very satisfactory, although the operation of single-man places, even after the seam thickened, together with the use of pneumatic drills throughout, has assisted in the improved returns.

Pillaring, with satisfactory results and high extraction percentage, was carried out in the North-west Panel, but during the waning stages floor heave, excessive when wet conditions existed, created added maintenance of roadways, and during the recovery of the lower strip of the barrier pillar in retreating, similar difficulties existed.

The reconditioning of the lower section of the main heading where thin coal was passed through formerly is being undertaken to establish a straight haulage road direct to the main section being developed. The original drive over this section had been closed by floor heave and roof falls.

Maintenance of roadways and air-courses, mainly through excessive floor heave, has been a major problem, and this work has been carried on almost continuously.

The mine generally is a difficult one to operate, and although face conditions in some sections are ideal but with limited extent, the yielding floor and high percentage of wet time involved creates considerable maintenance costs, while the number of men engaged on this work, together with those on surface and ropeway handling, is very high when compared with those on actual production in the mine.

Prospecting with five bores (each of which struck the coal and furnished data relating to apparent faulting adjacent to Outcrop Creek, on the Heao Gorge escarpment) was carried out; but, with improved results from underground development, the proposed change has been shelved meantime, as the cost of a new portal with surface arrangements would involve a large capital outlay.

The proposal can be reconsidered, if necessary, at a later stage, when the data obtained from the prospecting programme will be useful.

During the year further electrical underground extension has been carried out, and with electric winches now on order it is intended to replace compressed-air equipment wherever possible.

The main haulage has also been improved by installing a more powerful motor and control gear, and this haulage has been extended, and a further extension will follow when the lower section of the main heading is reconditioned.

The aerial ropeway has operated satisfactorily, and with the addition of fifty new bucket bodies its capacity increased, while a new 6 ft. rope-wheel complete with bearings has been installed to adjust a defect in the original plant.

The railway weighbridge, which had been irregular in action, was reconstructed in steel framing throughout and reinstalled in a new site in a substantial concrete pit, and it should give years of useful service.

No accident of a serious nature occurred during the year, nor was any major mining irregularity experienced.

A shortage of experienced shiftmen has been felt, and the absenteeism in an increasing degree was ever present.

WAITEWHENA OPENCAST

Coal-winning.—The net output for the year was 21,629 tons 11 cwt. 2 qr., a decrease of 1,568 tons 12 cwt. 2 qr. when compared with the previous year.

The net output from the colliery since its inception amounts to 63,712 tons 3 cwt. 1 qr.

Workings.—In the early part of the year a regular output was obtained from the No. 1 Area in the Lee Creek, while stripping operations with good results were undertaken in No. 2 Area, which is estimated to yield 11,700 tons.

During the late winter's extremely wet weather, creep of overburden continually interfered with these operations, resulting in irregular poor output, even when additional earth-work machines were introduced, and in September it was decided to cease production until the road to the No. 2 Area, where a reserve of stripped coal of 35,000 tons was available, could be completed.

This access, commenced early in July, on account of the atrocious weather and sloppy conditions causing numerous obstacles, was not workable until October, when production resumed from a strip of coal cleared along the escarpment from the graded section of the road.

Gradually increasing returns, from removal of the seam and extension of the road along the outcrop to No. 2 Area, were had, and production from this area commenced in November and has been regularly maintained, with increasing output.

With a peak of 220 tons, an output of approximately 160 tons daily has been produced, while reserves have been increased. They are now estimated at 43,000 tons.

With machines operating on top of the coal-seam, former difficulties with stripping of overburden will be considerably lessened, and the changed system of grab and navvy, combined with truck transport of spoil to a good dump on the steep escarpment, can be undertaken at all times, where formerly bulldozers and carryalls proved unworkable.

Bins and the necessary screening-plant are now under construction at the railway siding, and this, when completed, will be an improvement on the present bar-screen at the mine and enable graded coal of superior quality to be produced.

The above installation is well advanced and part of the team, as suitable tradesmen are scarce, has been transferred to the Waitewhena Valley, where an aerial flying-fox is under construction, together with a mine bin and a roadside bin for the ropeway.

This installation will convey the run-of-mine coal direct from the escarpment to the roadside bin, which is about 300 ft. below, the ropeway being about 1,200 ft. in length.

A suitable ropeway has been secured, and although modifications will be required,

with the plant simplified in some details, this will not involve much delay.

As difficulty was experienced with the supply of suitable timber for aerial ropeway structures and bins, this is now being obtained on the site, where a good patch of birch has been secured.

Anchor tunnels for the ropes of the ropeway have been driven, and the necessary foundations prepared for the bins, at the upper and lower terminals, and for the tension structure.

A railway-wagon weighbridge has been installed at the siding, and this has assisted materially with speedy dispatch of consignment returns, the coal having previously been weighed at various stations.

Reserves are adequate. With a reliable access to the opencast face, regular output is assured during the following year, and with the screening-plant in operation (electric power should be available in about two months' time) a further improvement will be had.

I have, &c., George Smith, District Manager.

The Manager, Wilton State Colliery, Ngaruawahia, to the Under-Secretary, Mines Department, Wellington.

Sir,— 9th April, 1947.

I have the honour to submit my annual report on the working of the above colliery for the year ended 31st March, 1947.

Coal-winning.—The gross output for the year was 79,937 tons 4 cwt., a decrease of 8,715 tons 10 cwt. when compared with the figures of the previous year. After allowing for waste, 3,923 tons 12 cwt., and coal used on works, 859 tons 8 cwt., there remained for disposal a net output of 75,154 tons 4 cwt.

Taking into account the stocks at the beginning and end of the year, the following statement shows details of the coal disposed of during the year:—

	.1.			•			
1st April, 1946—					Tons	ewt.	qr.
Stock in railway wagons					28		-
Add net output for yea	r .	•	• •	• •	75,154	4	0
					75,182	4	0
31st March, 1947—							
Less stock in railway wag	ons .		• •		14	0	0
Total disposed of		•			75,168	4	0
	Disp	osals					
	1		Tons	cwt. qr.			
Railed			45,098	14 0			
Railway sales			28,985	7 0			
Local and mine sales							
Sales to workmen and free i	ssues		1,084	3 0			
					75.168	4	0

The gross output for the colliery since its acquisition by the Government on 20th October, 1944, totals 202,224 tons 16 cwt.

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Days worked.—The colliery worked 228 days out of a possible 242 days. In addition, the colliery worked 14 back Saturdays and 5 statutory holidays, making the total days worked 247. The difference between the ordinary days worked and the possible number of working-days is accounted for as follows: 1 day, funeral of ex-employee: 1 day, extra Christmas holiday; 3 days, bus dispute; $\frac{1}{4}$ day, election; $\frac{1}{2}$ day, power failure: 4 days, Pukemiro dispute; 4 days, stop-work meetings; $\frac{1}{4}$ day, floods.

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 176 men and 5 boys, made up as follows—Underground: coal-hewers, 64; shiftmen and truckers, 61. Surface: 51 men and 5 boys.

Coal-hewers' Average Daily Earnings.—The average daily earnings of the coal-hewers after deducting explosives were £2 10s. 11d., which shows an increase of 1s. 5d. when compared with the previous year.

Daily Output.—The average daily output from the mine was 323 tons 12 cwt. and the hewers' average daily output was 9 tons 19 cwt. 3 qr., compared with 346 tons 2 cwt. and 9 tons respectively for the previous year. The number of hewer shifts worked was 8,001.

Deficiencies. — The total amount paid under the minimum-wage clause was £185–13s. 1d.

Accidents.—The colliery was free from serious and fatal accidents during the past year, although 190 accidents were reported, mostly of a minor nature.

Underground Workings. In the No. 3 Mine (east side) the output was obtained from pillar-extraction. This work is now completed. Pillar-extraction in No. 2 Mine and the B Panel in No. 3 Mine and development work in No. 3 Extended Mine. still continue. No. 2 East Heading Section is now in a distance of 16 chains from the main haulage road, whilst No. 3 East Headings are in about a similar distance. Stone intrusions occur fairly frequently in both of the above sections. The latter section has passed through several small faults, and at the present time we are crossing another 6 ft. downthrow fault. The coal-seam approaching this fault becomes interspersed with stone intrusions. On the other side of the fault, from the little we have seen, the coal is apparently clean and fairly hard. A coal-cutter has been installed in each of these sections, also an electrically driven boring-machine in No. 2 East Heading Section. Whenever the other borer comes to hand it will immediately be installed in No. 3 East. Heading Section. The installation of the coal cutter and borer resulted in a much larger output being produced from these particular sections. No. 4 West Heading Section was advanced approximately 11 chains until it encountered a downthrow fault with a displacement of 12 ft. When the other coal-cutter arrives, present intentions are to have it installed in No. 2 Extended Mine. Because of the shape of the field it will necessitate driving the main headings as fast as possible, and since we are confined to working one shift producing coal, it is only by means of the coal cutter and borer we can accomplish this. A small dip heading is being driven from B Panel into A Panel so as to be ready for extraction whenever the former panel is completed, which will be in the near future. No. 4 East Section was developed up to the fault in several places. When all of the development has been completed in this section, extraction will take place as the coal on the other side of the fault can be more conveniently and economically worked from No. 3 East Heading Section through opening up a panel on the south side of same. A small amount of developing is still being carried on in No. 3 West Section in good coal notwithstanding that in the other sections—i.e., Nos. 1 and 2 West Sections the coal thinned and the seam split until we had only about 3 ft. of coal. I intend driving a pair of developing headings from No. 4 West to the north in the direction of a borehole which shows 7 ft. 2 in. on the plan and about which there is apparently some doubt. During the year considerable repairs were effected to the surface ropeway from No. 3 Mine. These were necessary, due to the havoc played by the elements last winter.

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Stone-dusting.—Dusting was carried out at regular intervals during the year, in addition to the daily dusting of the working-places. During the year sixty-three samples of dust were taken and analysed.

Dangerous Occurrences.—Nothing of this nature occurred during the year.

Stoppings.—All the stoppings between the main intake and return airways were completed in the extended mine, and stoppings were erected in No. 4 West Headings and Nos. 2 and 3 East Headings.

Plant.—During the year the main No. 3 Extended Mine haulage engine was transferred inbye and endless haulages were installed in Nos. 2 and 3 East Sections, a pump and direct haulage in No. 4 West Section, and direct haulages in Nos. 2, 3, and 4 East Headings as close to the faces as possible, whilst a Korfmann coal-cutter was installed in each of Nos. 2 and 3 East Sections and one electric borer in No. 2 East Section. During the year 100 new mine skips were put into the mine.

Private Railway-line.—Maintenance work was carried out on this line during the year, whilst the New Zealand Railways bridge gang did necessary repairs to bridges. It was also necessary to bring in the New Zealand Railways maintenance gang at the week-ends to try and maintain this line in running-order. Painting of the bridges is just about completed. Maintenance cost of the line is exceedingly high.

Bus Service.—A passenger-bus service was inaugurated from Ngaruawahia to the mine in June, 1946.

Housing and Mine Buildings.—These were maintained in good order during the year. Several housing loans were granted to employees to build their own homes. A new house has been built and completed for the Surveyor, whilst a start has been made on a new residence for the Manager in Ngaruawahia. The new mine office was completed and occupied in October, 1946. The old office is now being used as an office for the Engineer and Manager and as a stores room.

Mechanization.—During the year a modified scheme of mechanization was put forward and approved. Modified because of the available coal. This scheme incorporated the use of loaders, coal-cutters, and electric boring-machines. Due to the inability to obtain supplies and materials quickly from overseas, it has only been possible to install two coal cutters, one each in Nos. 2 and 3 East Sections, also an electric borer in No. 2 East Section. Up to the present time, however, I expect to receive another three electric borers within the next five weeks. There is also another coal-cutter on order, but it must be months before we receive this. The loaders, according to advice, will not be available until early next year. The long periods which elapse between the time of ordering materials and obtaining delivery of same is the only reason why mechanization of this mine is being delayed.

Future Development and Boring. During the latter part of the year arrangements were made to put down several boreholes on the west side of the No. 3 Extended Mine to determine the existence of further coal. Any such coal would have to be worked from the present Extended Mine. A commencement has been made with the first borehole. No. 2 Mine is nearing exhaustion, and with a reasonable daily output this mine would be finished in 1948. Negotiations were carried out between the owner and representatives of the Mines Department with a view to boring an area to the north of the present No. 2 Mine. Arrangements have now been made to have this work started. Also surveys of the proposed haulage rope road and the necessary earthworks have been completed, so that if the bores prove successful we are in a position to go right ahead immediately and have this mine, which will be known as No. 2 Extended, partially developed before No. 2 Mine is finished. A new road is being constructed to the No. 3 Extended Mine entrance. This, when completed, will be 92 chains long and should be a big advantage, since the present road terminates approximately 10 chains from the bathroom. In addition, the men have then to walk a distance of 35 chains to No. 3 Extended Mine entrance. With the completion of the new road the buses can take the

men to the bathroom and then to the mine entrance, and vice versa, which will make it much easier for them, and also save time which is now lost in travelling to and from their places. When No. 4 West Headings have crossed over the present fault they will have a distance of approximately 8 chains to go until they come to the outcrop. When this has occurred it is the intention to work from here a block of coal known to exist on what is called the Bank property. Before this can be done, preliminary work will be necessary to locate the outcrop at the most convenient point, also a small amount of earthwork will be necessary.

Reasons for Decreased Output.—The decrease in the output for the year is due to: (1) reduction in days worked; (2) shortage of efficient labour following lifting of Man-power Regulations; (3) slips and washouts due to heavy rain during winter.

I have, &c., John Penman, Manager.

From the Superintendent, Waikato Controlled Mines, to the Under-Secretary, Mines Department, Wellington.

SIR, --

15th April, 1947.

I have the honour to submit my report on the working of the Waikato opencast mines for the year ended 31st March, 1947.

KIMIHIA

No. 1 Section (Kimihia Lake).—Work has continued on this section during the year, except for a period of eight weeks during mid-winter when coal-winning was stopped because bad weather conditions had affected stripping operations. At the end of the year sufficient coal had been stripped to ensure that, at the present rate of production, coal-winning can continue without interruption during the approaching winter months. During the year 248,830 cubic yards of spoil were removed.

During March the coal output was stepped up to 400 tons a day. The output for the year totalled 42,761 tons 13 cwt. 3 qr., making a total production of 66,595 tons 13 cwt. 3 qr. from No. 1 Area since work began there. To date Kimihia Nos. 1, 2, and 4 have produced 123,031 tons 7 cwt. 3 qr.

Vibrating screens are now being built, and the installation of this plant will result in a better grade of screened coal being supplied to consumers.

The quality of the coal-seam in situ is excellent.

The method used in the handling of the unstable overburden was unusual in opencast mines. Material was loaded by the 120-B (5 cubic yard) drag-line into Athey wagons carrying about 10 cubic yards each hauled by D8 tractors and tipped outside the mine area.

Kimihia No. 5

An area adjacent to and south-west of the present mine has been investigated during the year. Thirty-two coal-prospecting bores were sunk, together with five additional bores on the line of the stop-bank to test the overburden structure. All boring was done with the Department's C. N. Sullivan No. 2 drill rigged on a barge and floated over the bore-sites to a predetermined grid pattern.

A seam 24 ft. to 28 ft. thick has been proved and a stop-bank has been commenced to enclose an area estimated to contain 450,000 tons.

Land has been acquired and plans prepared for improving accommodation facilities in connection with this work.

Some 8 chains of stop-banking have been constructed involving the rehandling of 27,800 cubic yards of harder fireclay previously removed from No. 1 Area and stockpiled for the use to which it has now been put.

GLEN AFTON OPENCAST

This opencast has operated at irregular intervals during the year, with a complete shutdown from July to November, when all men and plant were transferred to Kemp's Opencast, Glen Massey. Stripping has now been completed and 454,080 cubic yards of overburden have been removed.

During the year 15,803 tons 4 cwt. of coal were recovered, making a total extraction to date of 48,403 tons 4 cwt. 2 qr. There remain some 8,000 tons of coal to complete the extraction of the area.

Arrangements have been made for the sale of a quantity of "ball fireclay," which is considered suitable for pottery-manufacture.

Preparations are now in hand to restore the surface as far as possible and plant suitable trees on the area.

Kemp's Opencast (Glen Massey)

Production from this mine has been maintained steadily during the year, when 55,246 tons 9 cwt. of coal were produced. Since November, 1944, when coal-winning commenced, 100,217 tons 18 cwt. has been won.

For the twelve months ended 31st March, 1947, 515,740 cubic yards of overburden were handled, making a total of 1,383,720 cubic yards of spoil removed from the mine.

Six workmen's cottages were completed and occupied.

Workmen from the mine have also been engaged on the construction of the Wilton Mine access road from No. 3 to No. 3a Mines.

Remedial measures to prevent erosion of the batters and silting of streams and pasture lands downstream have been found necessary.

Preparations are being made for additional boring on adjacent areas to be carried out.

I have, &c.,

P. M. OUTHWAITE, Superintendent, Waikato Controlled Mines.

COLLIERY REVENUE ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 1947

						,		
And the second s	Liverpool.	Strongman.	Dobson.	Wallsend.	Blackball.	Stockton.	Webb.	Burke's Creek(a).
Sales of coal, f.o.r., c. and f., and f.o.b. Subsidy*	£ £ £ 148,910 42,884 ——191.794	£ £ 183,636 40,423 224,059	£ £ £ 30,193 80,193	£ £ £ 78,925 19,469 98,394	£ £ £ 279,642 26,304 105.946	£ £ £ 17,903 82.205	$\begin{array}{ccc} & & & & & & & & & & & & & & & & & &$	£ £ £ 6.788 6.788 24.651
I.ess———————————————————————————————————	11,360 2,196 708 37,491 51,755	11,229 2,728 698 51,049 65,704	4,942 1,151 329 25,880 	3,957 878 251 22,256 27,341	6,091 1,027 293 21,424	5,844 1,342 16,161 23,347	8,366 1,919 23,023 33,308	428 15 1 297 741
Coal sales net f.o.r.	140,039	158,355	99,369	71,053	77,111	58,858	83,369	23,910
WORKING ACCOUNTS Stocks on hand, 1st April, 1946 Wages Materials used Royalty Rail and bus fares Electric power Repairs and maintenance Coal-miners 'Relief Fund Rescue station levy Workers' compensation premium Hire of plant Road maintenance Coal purchased	3, 251 149, 399 20, 550 9, 620 6, 265 2, 206 8, 488 8, 488	2, 139 1105, 980 21, 037 3, 992 3, 992 6, 380 203 6, 388 6, 388 6, 388	1,635 117,532 117,532 2,721 2,807 7,73 6,540 6,556 6,550 7,550 7,550	65.737 11.462 11.928 1.928 5.94.4 6.064 6.006	1,006 20,020 20,020 3,481 7,173 123 4,771	44 8.835 8.811 1.1.101 1.1.197 1.197 8.8 8.8 8.8 8.7 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	66 473 115 828 11. 831 1, 831 1, 831 1, 831 1, 83 1, 82 1, 82 1, 80 1, 136	19.414 4,167 77 77 1,368 29 29 1,308
Less stocks on hand, 31st March, 1947 Cost of coal sold Gross profit Gross loss	$ \begin{array}{r} 192,970 \\ 822 \\ 192,148 \\ \vdots \\ 52,109 \end{array} $	149,778 1,688 1,18,090 10,265	131,127 2,272 128,855 29,486	95,380 562 04,818	$ \begin{array}{c} 114,160 \\ 818 \\ -113,347 \\ 36,236 \end{array} $	64, 979 983 63, 996 5, 138	$ \begin{array}{c} 96,899 \\ 1,419 \\ \\ 95,480 \\ \vdots \\ 12,111 \end{array} $	$\begin{array}{c} 27,091 \\ 102 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
PROFIT AND LOSS ACCOUNTS Rents Insurance General expenses Traveling-expenses Printing and stationery Audit fees Salaries Depreciation Postages and telegrams Superammation Fund subsidy Rates and grants in lieu of rates	1, 204 1, 204 13, 557 7, 007 7, 007 7, 154 154 164	9, 22, 23, 24, 25, 27, 28, 28, 28, 28, 28, 28, 28, 28, 28, 28	126 165 165 166 166 166 1407	27.8 17.8 2.6.5 2.6.5 2.6.5 1.1 4.00	135 349 349 592 592 59 59 1,902 1,76 176 520	20 20 20 20 20 20 20 20 20 20 20 20 20 2	2, 28 2, 28 3, 20 3, 20 20 1, 4 36, 4	36 182 182 180 190 190 191 191 120
Less rents, &c	12,614 1,090 11 594	. :	6,985	10,591	9,297	3,569	5,160	4,828
Net profit { transferred to General} Net loss { Profit and Loss Account}	63,633	3,953	.: 36,169	84,215	43,800	8, 424	16,863	7,928
		(a) From 3rd June, 1946.		(For asterisk footnote, see page 39.)	see page 39.)	AMADEMINISTRATOR - PROPERTY PROPERTY AND	A del chamberon e con under hancomh renomble A des	And the safe when the safe week to be safe t

Colliery Revenue Accounts for the Year ended 31st March, 1947—continued

Wairaki.	$ \begin{array}{c} \mathfrak{L} \\ 73,270 \\ 16,805 \\ \vdots \\ 1,343 \\ \vdots \\ 88,732 \end{array} $	555 034 8 105 1 8 105 1 8 105 1 906 1 906 1 906 1 906 1 1 139 1 1 148 1 1 1 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\begin{array}{c} 5,009 \\ 301 \\ \hline \\ 10,612 \\ \end{array}$
Wilton.	£ £ £ 105,203 31,990 30,548 106,650	11,288 11,388 1,388 1,988 1,098 3,716 3,716 10,875 107,741 107,741 11,001 121 300 1,679 6,685 6,685 6,685 6,685 6,865 6,865 6,865 6,865 6,865 6,865 6,865 6,865 6,865 6,865 6,865 6,865 6,	12,822
Mossbank.	27,042 6,539 33,581 	23.708 2,629 658 880 658 880 524 658 70,407 7 7 7 7 1,410 11,11 11	2,392 6 2,386 672
Tatu.	$ \begin{array}{c} £\\ 35,704\\ 14,931\\ \hline \\ \vdots\\ 50,635\\ \hline \\ 50,633 \end{array} $	70,005 2,165 2,165 2,165 2,904 70,903 164 164 185 20,269 185 20,269 185 20,269 185 20,269 185 20,269 185 20,269 185 20,269 185 20,269	11, 572 2,023 9,549
Mangapehi.	$ \begin{array}{cccc} £ & £ & £ \\ 49,651 & \\ 20,164 & \\ & &$	7, 322 5, 458 7, 391 1, 583 1, 824 1, 824 1, 824 1, 111 1, 111 1, 824 77, 785 91 1, 64 1, 544 1, 544 1, 66 1, 544 1, 544	10,062 . 4,728 5,334
	Sales of coal, f.o.r., c. and f., and f.o.b Subsidy* Less N.Z.R. haulage Coal sales net f.o.r	WORKING ACCOUNTS Wages Wages Materials used Royalty Rall and bus fares Electric power Repairs and maintenance Coal-miners' Relief Fund Rescue station lovy Workers' compensation premium Less stocks on hand, 31st March, 1947 Cost of coal sold Gross profit Gross profit PROFIT AND LOSS ACCOUNTS Rents PROFIT AND LOSS ACCOUNTS Rents Fraveling-expenses Traveling-expenses	Less rent, &c. Net profit ∫transferred to General Profit ∫ Net loss ∫ and Loss Account

MACDONALD COLLIERY PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 1947

£ ... 180 ... 4,240 £4,420 :: : : Depreciation

Net profit, transferred to General Profit and Loss Account ... 3,648

Reuts ...

Royalties ... £4,420

Burke's Creek.	8,379		6,788
Wairaki.	20,039		16,805
Wilton.	£ 37,431	5, 141	31,990
Mossbank.	3,926	1,387	6,539
Tatu.	£ 18,340	3,409	14,931
Webb. Mangapehi.	£ 24,391	4,227	20,164
	£ 26,901	2,699	24,202
Wallsend. Blackball. Stockton.	21,917	4,014	17,903
Blackball.	£ 32,618	6,314	26,304
Wallsend.	23,888	4,419	19,469
Dobson.	£ 35,310	5,117	30,193
iverpool. Strongman.	£ 47,923	7,500	40,423
Liverpool.	$\frac{\epsilon}{51,128}$		42,884
	*Total subsidy (excluding	becas subsulted to the days and holidays and holidays and holidays and a credited to wages	Subsidy as per Sales Account

, 1947
MARCH
31sT
ENDED
YEAR
THE
FOR
ACCOUNTS
REVENUE
MINES
OPENCAST

Wangaloa.	28,635 7,418 86,053	:::	36,053	4.190 15,521 702 . 67 . 184	20,693 20,693 15,360	109 109 1196 29 13 13 13	2,787
Ohai.	£ £ £ 10,585 66,736	, tt	66,692	30,532 190 807 807 194 194 2,374 2,374	34,365 34,365 32,327		8,703 15 8,688 23,639
Stockton.	224,298 32,539 256,837	20,302 4,656 55,893 80,851	175,986	2,305 123,329 123,329 2,536 291 291 402 3,140	136,490 3,442 	136 222 222 222 3,198 5,065 485 485 485 34	10,727 10,727 990 93,201
Waitewhena.	$\begin{array}{c} £ & £ \\ 27,419 \\ 5,008 \\ 32,427 \end{array}$	₹ ::	32,423	7,915 17,937 1,081 45 	27,499 27,499 4,924	202 7708 199 199	1,103
Kimihia No. 1.	£ £ £ 9,064 6,042 59,906	99	59,840	40,876 312 .89 48 98 2,268 2,268	44,231 44,231 15,609	117 10 43 43 5 182 1,429 10 22	1,847
Kemps.	£ £ £ 12,775 70,247	:::	70,247	$\left.\begin{array}{c} 43.105\\ 25,505\\ 2,476\\ 113\\ 90\\ 632\\ 36\\ 2,633\\ 105\\ \end{array}\right\}$	76,078 76,078 5,831	 14 50 50 50 72,215 13 28 28	12,700 225 12,475 18,306
Glen Afton.	£ £ £ 3,664 3,664 21,631	:::	21,631	26.380 2.812 1,510 333 20 40	31,713 	56 111 171 172 3,050 10 4 37	3,244
	Sales of coal, fo.r., c. and f., and f.o.b. Subsidy*	Less- N.Z. B. haulage Wharfige Marine freight	Coal sales, net f.o.r	working accounts Stocks on hand, 1st April, 1946 Stripping overburden Excayation and cartage Royalty Coal-miners Relief Fund Resone station levy Boring, &c. Bus fares Sundry coal-viming expenses Restoration of surface	Less stocks on hand, 31st March, 1947 Cost of coal sold	PROFIT AND LOSS ACCOUNTS Rents Insurance General expenses Printing and stationery Audit fees Salaries Depreciation Depreciation Postages and telegrams Superamnation frund subsidy	Less rent received, &c

DEPOT TRADING AND PROFIT AND LOSS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 1947

				Auc	kland.	Well	ington.	Chris	tchurch.
TRADING A	ACCOUN	ГS			£		£		£
Sales of coal					531,407		482,930		169,744
Sales of coke, wood, &c.						::	16,155	::	3,445
,,									
				j	531,407		499,085		173,189
Stocks on hand, 1st April	, 1946				ŕ	2,212		2,587	
Purchases of coal	••			504,960		402,481		145,058	3
Purchases of coke, wood,	&c.					9,984		2,953	}
Wharfage and freights				683		5,316		26	;
Haulage to depot				15,759		56,930		12,818	;
Wages: Discharging						58		427	•
0 0									
				521,402		476,981		163,869)
Less stocks on hand, 31	lst March	ı, 1947				1.048		3,184	
Cost of coal sold					521,402		475,933		-160,685
Gross profit					10,005		23,152		12,504
-									
PROFIT AND L	OSS ACC	OUNTS							
Advertising		• •		44		44		44	
Wages: Yard						1,811		1,868	
Salaries				892		2,978		2,319	
Rents				136		631		135	
Travelling-expenses				4		6		20	
Repairs and maintenance				•••		865		1,053	
Postages and telegrams				266		154		216	
Printing and stationery				24		190		116	
Insurance						21		12	
Cartage						4,528		3,065	
Sacks	• •		• •	• •		789		395	
General expenses			• •	150		887		286	
Audit fees	• •			• •		122		31	
Superannuation Fund sub	sidy			5		11		17	
Reserve for bad debts	• •	• •	• •	35		••			
Rates				55		30		•••	
Depreciation				• •		610		493	
	a. ==				1,611		13,677	ļ	10,070
Net profit: To General Pr	ofit and I	loss Acco	unt		8,394		9,475		2,434

	Profit and Loss A				
Dr. Insurance Net profit: To Account	General Profit and Loss	$\begin{bmatrix} £ \\ 2 \\ \hline 17 \\ £19 \end{bmatrix}$ Rents C_1	r	••	£ 19 £19

		લ્સ													122,262				11	1,10,1	6,089	167,380	£303,308				3	244,970	
		ૂ	672	10,612	13,762	3,821	33,201	23,639	12,587	8,394	9,475	2,434	17	3,648			34	4,257	3,286		:	:						:	
			:	:	:	:	:	:	:	:	:	:	:	:			:	:	:		:	:						:	
			:	:	:	:	:	:	:	•	:	:	:	:			:	:	:		gs, &c.	:						:	
			:	:	:	:	:	:	:	:	:	:	:	:			:	:	:		t, buildin	ing losses						:	
			:	:	Т.	:	:	:	:	:	:	:	:	:			:	:	:		of plan	er work			F	-		eserve	
General Profit and Loss Account	ڻ	Net profit, 1946-47-	Mossbank Colliery	Wairaki Colliery	Kimihia Opencast No.	Waitewhena Opencast	Stockton Opencast	Ohai Opencast	Wangaloa Openeast	Auckland Depot	Wellington Depot	Christchurch Depot	Wanganui Depot	McDonald Colliery	•	Net recoveries—	Seddonville Colliery	Royalties	Interest receivable		Net revenue from hire of plant, buildings, &c.	Special subsidy to cover working losses			Drown Accounting one American Account	KUFKIATIUN AUCUUN	6	£44,976 Transfer from General Reserve	
Profit a		ړېې														303,308		- /-	:				£303,308		, 5000	JOSS AFE	વ્યર	£44,976	
NERAL]		ړېئ	63,633	3,953	36,169	34,215	43,800	8,424	16,863	7,907	13,358	29,818	13,536	13,326	18,306		75,743	75,743							_ 4.5.4	TAND		:	
GE			:	:	:	:	:	:	:	:	:	:	:	;	:		:	943(3)							Duoin	I ROE		:	
			:	:	:	:	:	:	:	:	:	:	:	:	:		:	se Act, 1										:	
			:	:	:	:	:	:	;	:	:	:	:	;	:		:	section 3, Finance Act, 1943 (3)										:	
			:	:	:	:	:	:	:	:	:	:	:	:	:		al	r sectior										unts	
	Dr.	Net loss, 1946-47-	Liverpool Colliery	Strongman Colliery	Dobson Colliery	Wallsend Colliery	Blackball Colliery	Stockton Colliery	Webb Colliery	Burke's Creek Colliery	Mangapehi Colliery	Tatu Colliery	Wilton Colliery	Glen Afton Opencast	Kemp's Opencast	4	Interest on loan capita	Less remission under									;	Loans Redemption Accounts	

486,321

 $\frac{1}{486,345}$

:::

: : :

Miscellaneous advances . . . Sundry debtors . . . Less provisionally written off

1947
MARCH,
31sT
AT
$^{\mathrm{AS}}$
NCE-SHEET
BALA

બો -				1,633,220 105	194,324	14,543	4,472	14,859
ભ	1 060 006	13,621	113,371 213,848 609 29,385	186,838	8,840 3,442 2,261	6,990 2,518	65,836	200
£ 450, 243 488, 514 134, 985 188, 762	633 1,263,137 751	113,381	:::	: :	: :::	::	::	:
Collieries— Machinery, plant, ropes, and rolling-stock Buvelopment and Property Accounts Buildings at mines Cottages at mines	Plantations at mines Less provisionally written off	Depots: Property Accounts Plant, equipment, &c., on hire Less provisionally written off	Opencast mining: Works in progress Briquetting: Preliminary expenses Prospecting on State coal reserve	Shares Stores on hand— Collicries Snares for mechanical conjument	Coal stocks (bins, wharf, and afloat)— Collieries Opencasts Coal purchased	Stocks and stores on hand at depots Less provisionally written off	Housing advances to workmen Interest accrued and due	Miscellaneous advances
$1,933,123\\ 327,083\\ 4,039\\ 44,976$	115,324 $79,714$ $1,683$							
Liability to Consolidated Fund under section 6, National 1,933,123 Development Loans Act, 1941 Sundry creditors Deposits on contracts Debt Redemption Reserve to be applied for redemption of 44,976 capital	Reserves— General Reserve Accident Insurance Reserve Bad Debts Reserve							

4,039	49, 430	44,976	£2,505,942		
2,766	39,664	:	23	11	
:	:	:		,	
Cash in Receiver-General's Deposit Account Cash in Public Account	Imprests outstanding	Cash in Loans Redemption Account			J
			£2,505,942		

State Coal-mines Office, Wellington C. 1. H. H. GIBSON, Accountant.

A. McLagan, Minister of Mines.

I hereby certify that the attached Revenue and Profit and Loss Accounts of Collieries and Depots and General Profit and Loss Account and Balance-sheet have been duly examined and compared with the relative books and documents submitted for audit, and correctly state the position as disclosed thereby.—J. P. RUTHERFORD, Controller and Auditor-General.

STATEMENT OF PROPERTY ACCOUNTS AS AT 31ST MARCH, 1947

	Liverpool.	Strong- man.	Dobson.	Wallsend.	Blackball.	Stockton.
Development and Property Accounts Machinery, plant, ropes, and rolling-stock Buildings at mine Cottages at mine Plantations at mine	£ 34,951 54,316 3,733 17,075 19	33,003	42,789 11,683 2,081	52,663 11,164 1,720	33,599 5,511 3,348	71,577 25,228 6,445
	Webb.	Burke's Creek,	Garvey's Creek.	Manga- pehi.	Tatu.	Mac- Donald.
Development and Property Accounts Machinery, plant, ropes, and rolling-stock Buildings at mine Cottages at mine Plantations at mine	£ 1,237 8,786 3,695 219 13,937	$1,112 \\ 451$	250 553 	30,344 21,008 98,049	35,312 7,439 38,298	614
		Mossbank.	Wairaki.	Wilton.	Morley.	Totals.
Development and Property Accounts Machinery, plant, ropes, and rolling-stock Buildings at mine Cottages at mine Plantations at mine		£ 4,998 6,400 1,024 1,179 13,601	£ 9,423 16,135 3,775 11,574 40,907	£ 34,729 38,646 6,718 7,752 87,845	£ 21,852 21,852	£ 488,514 450,243 134,985 188,762 633 1,263,137

OPENCAST MINES

	Glen Afton.	Kemp's.	Kimihia.	Waite- whena.	Stockton.	Ohai.	Wangaloa.	Total.
Work in progress	£	£	£	£	£	£	£	£
	*1,940	19,422	*92,824	*63,257	10,304	2,625	*23,476	213,848

^{*} Includes balance of purchase-price to be written off against coal-winning.

£2,686,606

STATEMENT OF RECEI	PTS AND	PAYMENTS	FOR THE YEAR	ENDED	318	ST MARC	н, 1947
	£	£					£
Cash in Public Account,	2		Mine developmer	nt			36,388
1st April, 1946	6,993		Plant				87,556
Imprests outstanding as	0,000		Buildings				10,992
at 1st April, 1946	38,843		Cottages				17,926
		45,836					945,964
Proceeds sale of coal, &c.		,	Wages Stores				249,290
(including subsidy)	2.447.618						28,927
Recoveries, refunds, &c.	65,389		Bus and rail fare				17,738
Royalties	7,340		Repairs and main				60,339
zvoytables	-,010	2,520,347					20,811
Capital raised		120,000	Rescue station le				4,821
Dishonoured cheques re-	• •	,	Coal-miners' Reli				2,323
credited		423	Coal purchased				591
			Road maintenan				1,301
			Hire of plant				1,613
			Commission				2,843
			Marine freights				272,970
			Wharfage				16,703
			Hanlage				136,159
			. 9				2,481
			Opencast coal-r				•
			and working-e	xpenses		•	346,195
			Compensation		٠٠,		31,218
			Boring and prost				9,104
			Housing loans				11,234
			Other loans				5,571
			Auckland Depot				19,845
			Wellington Depo	t			84,509
			Christchurch Dej Wanganui Depot	pot			28,916
			Wanganui Depot	;			623
			Coal purchased c	n accoun	t de	$pots \dots$	72,117
			Sinking fund				44,976
			Refunds (sundry	debtors)			94
			Cheques dishono				426
			Public Service S	uperannı	iation	n Fund	
							295
			Audit fees				438
			Fire insurance				2,257
			General expenses				6,313
			Rent Postages				988
					• •		2,718
			Printing and stat	tionery			1,552
			Rates	• •			3,111
			Travelling-expen	ses	• •		1,963
			Salaries	• •	• •		51,859
			Advertising				118
			Cash in Public A			£	
			March, 1947			2,766	
			Imprests outstar			00 004	
			31st March, 19	47	• •	39,664	49 490
							42,430

£2,686,606

Table showing the position of the State Coal-mines Account from inception to the 31st March, 1947

Name of Works.	Total Capital Expenditure.	Total Amount of Depreciation written off.	Assets as per Balance- sheet, 31st March, 1947.	Net Profits.	Net Losses.	Liabilities as per Balance- sheet, 31st March, 1947
UNDERGROUND MINES Liverpool	£ 441,752	£	£	£	£	£
Less sales, transfers, &c	23,295					
	418,457	308,449	110,008		72,890	
Strongman Less sales, transfers, &c	$309,672 \\ 42,607$:			
	267,065	56,545	210,520	6,341	••	· ·
Dobson Less sales, transfers, &c	111,823 11,092		,			
	100,731	16,188	84,543		58,471	
Wallsend Less sales, transfers, &c	$^{115,688}_{2,933}$					And a second sec
	112,755	23,949	88,806	• •	52,037	• •
Blackball Less sales, transfers, &c	$\begin{array}{c} 69,565 \\ 6,758 \end{array}$					0.00
	62,807	14,906	47,901		91,787	
Mangapehi Less sales, transfers, &c	$^{193,333}_{6,133}$					
	187,200	27,232	159,968		12,082	
Tatu Less sales, transfers, &c	167,272 17,285					
	149,987	22,085	127,902	• •	49,504	
Stockton Less sales, transfers, &c	235,271 7,350					
	227,921	17,427	210,494	••	6,779	
Webb Less sales, transfers, &c	17,991 1,709					
	16,282	2,345	13,937		16,119	
Wilton Less sales, transfers, &c	106,232 837	We consider the second				
	105,395	17,550	87,845		12,470	
Mossbank Less sales, transfers, &c	36,195 19,297					
	16,898	3,297	13,601	1,370		

Table showing the position of the State Coal-mines Account from inception to the 31st March, 1947—continued

Name of Works.	Total Capital Expenditure.	Total Amount of Depreciation written off.	Assets as per Balance- sheet, 31st March, 1947.	Net Profits.	Net Losses.	Liabilities as per Balance- sheet, 31st March, 1947
Wairaki Less sales, transfers, &c	£ 47,634 2,113	£	£	£	£	£
	45,521	4,644	40,877	21,883		
Morley Less sales, transfers, &c	21,852					
	21,852		21,852			
Burke's Creek Less sales, transfers, &c	6,229					
Garvey's Creek	6,229 3,763	3,087	3,142		7,907	
Less sales, transfers, &c	3,763		3,763		`. <u>.</u>	
McDonald Less sales, transfers, &c	93,595 760				ن	
	92,835	55,608*	37,227		1,205	
OPENCAST MINES Glen Afton	14,830 39,882 99,017 70,443 16,085 21,445 27,573	12,890 20,460 6,193 7,186 5,781 18,820 4,097	1,940 19,422 92,824 63,257 10,304 2,625 23,476	46,692 6,659 79,070 36,457 11,099	19,963 43,465 413	
DEPOTS						
Wellington Less sales, transfers, &c	$ \begin{array}{r} 26,053 \\ 1,283 \\ \hline 24,770 \end{array} $	17,789	6,981	65,441	•	••
Christchurch Less sales, transfers, &c	22,449 1,259					
Wanganui Less sales, transfers, &c	21,190 4,372	15,129	6,061	31,015	. ••	-
less saies, transièrs, &c	3,959	3,380	579		2,140	
Auckland		••	••	12,910	••	

^{*} Includes interest (£30,286) capitalized from date of purchase to date lease was granted, now written-off.

Table showing the position of the State Coal-mines Account from inception to the $31\,\mathrm{st}$ March, 1947-continued

Name of Works.	Total Capital Expenditure.	Total Amount of Depreciation written off.	Assets as per Balance- sheet, 31st March, 1947.	Net Profits.	Net Losses.	Liabilities as per Balance- sheet, 31st March, 1947
MISCELLANEOUS Briquetting: Preliminary expenses	£ 609	£	£ 609	£	£	£
Prospecting on State coal reserve Less transfers, sales, &c	50,770 20,469					MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	30,301	916	29,385			
Plant, buildings on mines, &c. Less transfers, sales, &c	$\begin{array}{c} 143,763 \\ 13,024 \end{array}$		Constitution of the state of th		West and the state of the state	
	130,739	17,368	113,371	9,946	••	••
Seddonville Colliery Less transfers, sales, &c	38,243 549					
	37,694	37,694	• •	• •	36,607	
Royalties from 1st April, 1928 Taxation				85,069 7,596	51,929	
COMPLETED WORKS Point Elizabeth Colliery Less sales and loss by fire	98,210 2,291					
	95,919	95 919		147,583		••
James Colliery Less sales, transfers, &c	74,495 6,250					
	68,245	68,245		2,970		
Dunedin Depot	2,023 641					
	1,382	1,382	•••	••	4,248	
Briquette Works Less sales of plant	$16,135 \\ 2,066$					
	14,069	14,069			22,661	
Charming Creek, prospecting	5,957	5,957			5,545	
Hulks Property Less sales	4,034 1,949					
	2,085	2,085	••	1,787		• •
Office furniture Less sales	190 17					
	173	173		••	173	

Table showing the position of the State Coal-mines Account from inception to the 31st March, 1947—continued

Name of Works.	Total Capital Expenditure.	Total Amount of Depreciation written off.	Assets as per Balance- sheet, 31st March, 1947.	Net Profits.	Net Losses.	Liabilities as per Balance- sheet, 31st March, 1947.
	£	£	£	£	£	£
Discounts				13		
Cash lost (highway robbery)					89	
Transfer to Accident Insurance					2,960	
Reserve Refund, Mines Department		• •	••	••	5,000	• • •
	• • •	• •	••	••	5,000	
Runanga water-supply Stores sales	• • •	• • •	•••	463	,	
		• •		167,380	• •	
Special subsidy	3 554 445	• •	• • •		• •	• •
Grand total	2,754,445	• •	•••	• •	••	• • • • • • • • • • • • • • • • • • • •
Less losses, sales, transfers	192,380	• •		••	•••	••
	2,562,065	928,845	1,633,220			••
Total profit and loss				741,744	581,444	
Balance: profit over losses					160,300	
				741,744	741,744	••
Capital expenditure brought forward Shares			1,633,220 105		••	• •
Stocks on hand, less provision-			212 222			
ally written off			213,339	• •		
Sinking Fund investment			44,976	• •	• •	
Sundry debtors			486,321	• •		• •
Cash in Public Account Cash in Receiver-General's			42,430	• •	••	••
Deposit Account Housing Advances to Workmen			4,039	• •	••	
and accrued interest			66,653			
3.51 37 1		••	14,859		!	
τ .	•••	••	1		••	1,933,123
D ID I D		•••		• •	ŀ	1,683
01.11. 27. 1			•••	44.976	•••	44,976
	••			115,324	• •	115,324
D 1		• •		•	• •	4,039
		• • •		• •	• •	79,714
Aggidant ingurance regeres						
Accident insurance reserve Sundry creditors						327,083

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