# 1939. NEW ZEALAND.

# STATE COAL-MINES

(REPORT ON THE WORKING OF) FOR THE YEAR ENDED 31st MARCH, 1939.

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

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

12th May, 1939.

SIR,-I have the honour to submit my annual report on the working of the State coal-mines for the year ended 31st March, 1939.

#### LIVERPOOL COLLIERY.

Coal-winning.—The gross total output for the year was 136,533 tons 1 cwt., a decrease of 1,273 tons 10 cwt. when compared with the figures of the previous year. After making allowances for stocks on hand, coal purchased, surplus stock taken on charge, and deducting mine consumption and waste there remained for disposal 133,849 tons 14 cwt. 2 qr., which is accounted for as follows:

	Screened.	Unscreened.	Small.	Total.
GL:	Tons cwt. qr. 2,280 2 1	Tons ewt. qr. 12,198 12 2	Tons ewt. qr. 39,881 2 0	Tons ewt. qr.
Shipped Railed Canterbury	29,906 16 3	8,391 0 0	25,480 9 1	$\begin{bmatrix} 54,359 & 16 & 3 \\ 63,778 & 6 & 0 \end{bmatrix}$
Local sales	4.754 14 3	2.121   5   2	4,126   0   0	11.002 0 1
Mine sales	, , , ,	49 0 0		49 0 0
Sales to workmen and free issues		1,954 2 0		1,954 2 0
Stock in bin and yard	21 0 0	748 0 0	1,809 14 2	2,578 14 2
Stock on wharf		127 15 0		127 15 0
	36,962 13 3	25,589 15 0	71,297 5 3	133,849 14 2
Used on works	·	4,700 0 0		4,700 0 0
Waste		1,026 7 0		1,026 7 0
Totals	36,962 13 3	31,316 2 0	71,297 5 3	139,576 1 2

The gross total output from the colliery since its inception amounts to 3,141,783 tons 7 cwt. During the year the colliery worked on 202 days, an increase of 1 day 5 hours when compared with the previous year. The possible working-days, excluding Saturdays and union holidays, were 245. The difference between the days worked and the possible working-days is accounted for as follows: Lack of trade, 9; stoppage on account of fire in mine, 10; stoppage on account of building burned down, 1; shortage of railway wagons, 2; slips on railway-line, 8; stoppage re bathhouse, 1; stoppage re trucker, 5; stoppage re boys, 2; deaths of employees, 3; death of co-operative party employee, 1; failure of examining deputies to report, 1; a total of 43 days.

Employees.—In connection with coal-level Harden and Coal houses of the deputies of the coal-level Harden and Coal houses of the coal-level Harden and Coal houses of the deputies of the coal-level deputies of the c

about the mine was 314, made up as follows-Underground: Coal-hewers, 92; deputies, shiftmen,

and truckers, 140; youths, 2. On the surface: 62 men and 18 youths.

Expenditure.—The total expenditure in connection with coal-winning for wages, stores, mine timber, and compensation, together with subsidies on railway tickets and cost of fuel used on works, amounted to £106,117 2s. 3d., as compared with £108,208 2s. 2d., for the previous year.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £2 0s. 1d. per day, and after deducting stores (explosives) their net return was £1 16s. 11d., an increase of 8d. per day when compared with the figures for last year.

Daily Output.—The average daily mine output was 675 tons 18 cwt. and the coal-hewers' average daily output was 8 tons, as compared with 687 tons 15 cwt. and 7 tons 17 cwt. respectively for the previous year.

Deficiencies.—The total amount paid under the minimum-wage clause was £43 16s. 8d.

Accidents.—In addition to numerous accidents of a minor nature, three fatal and two serious accidents occurred in the Liverpool Colliery:—

#### Fatal Accidents-

- On 5th May, 1938, a miner was struck on the head by a jig prop, the injuries proving fatal on the following day.
- On 20th May a miner employed in the Liverpool Colliery strained himself by slipping on a flat-sheet. He died on 21st July as a direct result of acute nephritis contracted following an operation for a direct inguinal hernia.
- On 20th September a trucker was struck by a fall of coal, his spine being fractured. His injuries proved fatal on 19th December, 1938.

#### Serious Accidents

- On the 16th November, 1938, a collier was struck by a fall of coal, fracturing his arm and ribs.
- On 24th March, 1939, a miner, received a depressed fracture of the skull and serious scalp wounds as a result of a fall of coal in the Liverpool Colliery.

The total payments under the Workers' Compensation Act amounted to £5,087 2s. 9d. On the output produced, this works out to a cost of 8.94d. per ton.

Outbreak of Fire.—Fire broke out in the No. 1 Morgan east section on 15th August, 1938. The area was sealed off with concrete stoppings.

Mine-workings: Developments.—Anderson Dip Section: No. 2 dip was driven a distance of approximately 10 chains on a gradient of 1 in 2. Two levels were broken away in an easterly and a westerly direction. The coal is of good quality, 10 ft. to 12 ft. in thickness. Roof conditions are adverse in the main dip, but improve in the levels. An increase in the quantity of water in the dip has been experienced, and it will shortly be necessary to provide extra power for pumping purposes.

Kimbell East Level, No. 8 Bank: This level, which has been standing for a period of three years, has been cleaned up and retimbered, and driven for a distance of 3 chains in coal 5 ft. in thickness. A false roof 10 in. thick has been taken down and stowed. A companion level will shortly be started for prospecting purposes.

Kimbell West Dip: Levels to the east have been driven approximately 7 chains in good coal. Steeply inclined headings to the rise are being driven.

Cross-cut No. 3 Morgan West: A pair of headings have been driven a distance of 7 chains in good quality of coal, the gradient being 1 in 2. For ventilation purposes a holing was made to the No. 3 section, Morgan west. Another pair of headings are to be driven 5 chains outbye of the crosscut headings to form a panel. The coal in this area, as proved by a borehole, is 20 ft. in thickness. Owing to the steep gradients this area has not previously been worked. During the year the greater portion of the output was won from pillar-extraction in the Morgan and Kimbell seams.

No. 2 Bank, Morgan East is being reroaded for further pillar-extraction and to provide places for those lost by fire in the No. 1 bank, Morgan east.

Stoppings.—A barrier, the entire width of the Morgan workings, has been completed with wooden stoppings as a precaution against fire outbreaks. Adjacent to the fire area, No. 1 bank, Morgan east, concrete stoppings have been erected to efficiently seal off the fire area. In addition, thirty-five wooden stoppings and seven concrete stoppings have been erected to form a panel. A second line of retreat consists of twenty-eight wooden stoppings.

Repairs.—All necessary repairs to timber, roadways, &c., have been carried out, and the mine is generally in good order.

Future Developments.—It is proposed to extend the dip workings in the Morgan and Kimbell seams. The necessary plant, &c., for this work has been placed on order.

Stone-dusting.—Work under this heading has been continued. The total number of samples taken from the Liverpool Colliery was 573. In addition, seventy-five samples from co-operative mines were analysed.

Plant and Machinery.—The whole of the plant, machinery, and buildings has been maintained in good order. New ropes have been put on the hoist and main haulage roads.

Air-pipes.—A line of 6 in.-compressed-air pipes has been laid to the Kimbell Junction, and a 4 in. line to the Morgan Junction in preparation for driving the dip workings.

Viaduct.—The subsidence mentioned in my last annual report still continues, and it has been found necessary to constantly reline the viaduct throughout the year. It has not yet been considered necessary to suspend the viaduct from ropes, but this project is still being kept in view.

#### JAMES COLLIERY.

Coal-winning.—The gross total output for the year was 42,649 tons 3 cwt., an increase of 40 tons 16 cwt. when compared with the figures of last year. After making allowances for stocks on hand at the beginning of the year and deducting mine consumption and waste there remained for disposal 46,622 tons 19 cwt. 1 qr., which is accounted for as follows:-

	Screened.	Unscreened and Nuts.	Small.	Slack.	Total.
	Tons ewt. qr.		Tons ewt. qr.	Tons ewt. qr.	Tons ewt. qr.
Shipped		2,657 16 3		7,416 8 2	19,451 8 2
Railed Canterbury .	$. \mid 12,782 \ 10 \ 2$	830 15 1	999 5 3	$147 \ 18 \ 3$	$  14,760 \ 10 \ 2$
Local sales	. 66 15 2	418 19 3		170 3 1	655 18 1
Mine sales	.				
Sold to workmen an free issues	1	749 12 0			<b>749 12</b> 0
Stock in bin and yard	108 0 0	82 0 0		321 0 0	511 0 0
Stock on wharf .	47 1 0			45 7 0	92 8 0
Stock on dump .			•••	10,402 2 0	10,402 2 0
	22,381 10 1	4,739 3 3	999 5 3	18,502 19 2	46,622 19 1
Used on works .		176 0 0			176 0 0
Waste		1,039 3 0			1,039 3 0
Totals	. 22,381 10 1	5,954 6 3	999 5 3	18,502 19 2	47,838 2 1

The gross total output from this colliery since its inception amounts to 574,827 tons 17 cwt.

Days worked.—During the year the colliery worked on 208 days, a decrease of 32 days when compared with the previous year. The possible working-days, excluding Saturdays and union holidays, were 245. The difference between the days worked and the possible working-days is accounted for as follows: Lack of trade, 18; stoppage re bathhouse, 2; death of employee, 1; stoppage re truckers, 6; stoppage re deficiencies, 2; repairs to Christchurch Depot turntable, 5; stoppage re bus, 1; stoppage re tokens, 2: a total of 37 days.

Employees.—In connection with coal-winning, the average number of persons employed in and about the mine was 97, made up as follows-Underground: Coal-hewers, 30; deputies, shiftmen,

and truckers, 44; youths, 3. On the surface: 17 men and 3 youths.

Expenditure.—The total expenditure in connection with coal-winning for wages, stores, mine timber, and compensation, together with subsidies on bus fares, cost of electric power, and coal used on works, amounted to £32,703 7s. Od., as compared with £31,132 7s. 5d. for the previous year.

Coal-hewers' Average Daily Earnings.—The coal-hewers' average daily earnings (gross) were £1 17s. 6d., and after deducting stores (explosives) their net return was £1 10s. 8d., an increase of

2s. 9d. per day compared with the previous year.

Daily Output.—The average daily mine output was 205 tons 1 cwt., and the coal-hewers' average daily output was 7 tons, as compared with 177 tons 10 cwt. and 6 tons 10 cwt. respectively for the previous year.

Deficiencies.—The total amount paid under the minimum-wage clause during the year was

£58 6s. 11d.

Accidents.—During the year there were a number of minor accidents, but none of a serious nature.

The total payments under the Workers' Compensation Act amounted to £1,038 6s. 9d. On the output produced, this works out at a cost of 5.84d. per ton.

Stone-dusting.—Work under this heading has been carried out. The number of samples taken

from the mine and analysed was 131.

Plant and Machinery.—Maintenance of the plant and machinery has been somewhat more costly than usual. As the Strongman Colliery reaches the fully productive stage a change-over from the old James Mine rope-road and haulage plant to that of the new mine will take place, when a reduction of maintenance-costs can be looked for.

Underground Working.—Coal-winning operations during the year were carried on in both pillar and solid working. In the sections lying to the west of the main rope-road pillar-extraction has been

completed and both sections closed down.

In the west section, Cannel Creek, pillar-extraction has been carried on throughout the year. To the east of the rope-road, Cannel Creek, the development work was discontinued pending the completion of the rope-road to the Strongman Colliery.

In the new dip section development work has been continued. The direction of the main

development headings has been changed from north to north-easterly.

The levels being driven in a northerly direction have encountered a fault and have been stopped. Three levels driven to the south have also been stopped on a fault-line. Distance between faults approximately 10 chains.

Pillar Sections.—Coal is being won from pillar-extraction in two sections lying to the west of the

James Mine rope-road. The work of extraction will be completed during the coming year.

#### STRONGMAN COLLIERY.

Coal-winning.—This colliery commenced production on the 31st January, 1939, and the gross total output from that date to 31st March, 1939, was 1,497 tons 10 cwt. After deducting mine consumption and waste there remained for disposal 1,467 tons 15 cwt. which is accounted for as follows:—

		Screened.	Unscreened.	Small.	Total.
Shipped Railed Canterbury Local sales Mine sales Sales to workmen and Issues Stock in bin and yard Stock on wharf	free	Tons ewt. qr. 17 4 2	Tons ewt. qr. 500 16 2 336 4 3 81 5 1 3 0 0 174 14 3 214 3 0 140 6 1	Tons ewt. qr.	Tons cwt. qr. 500 16 2 353 9 1 81 5 1 3 0 0 174 14 3 214 3 0 140 6 1
Used on works Waste Totals		17 4 2  17 4 2	1,450 10 2 16 0 0 13 15 0 1,480 5 2		1,467 15 0 16 0 0 13 15 0 1,497 10 0

From its inception the colliery worked on 39 days. The possible working-days, excluding Saturdays and union holidays, were 44. The difference between the days worked and the possible working-days is accounted for as follows: Rope not run on account James Mine not working, 3; stoppage re tokens, 2: a total of 5 days.

Employees.—The average number of employees in connection with coal-winning was—Underground, 24; on the surface, 3 men and 1 boy.

Development Work.—The average number of employees on development work throughout the year was 67 men and 4 boys.

All stone tunnels in connection with the Strongman Colliery have been completed, the lengths of which are as follows:— Chains.

								CITOTITIO*
o. 1 tunnel	over top of	James Mine	haulag	e road to	Cannel (	Creek		29
Io. 2 tunnel	from Cannel	l Creek to N	ine-mil	e Creek				35
Io, 3 tunnel	on rope-road	d Nine-mile	Creek					$2 \cdot 8$
To. 4 tunnel	from Nine-r	nile Creek to	Coal-f	ace				29
Io. 5 return	airway							15
Jpcast Shaft								0.5
	Total driving	ng in stone						$111 \cdot 3$
	No. 2 tunnel No. 3 tunnel No. 4 tunnel No. 5 return	No. 2 tunnel from Canne No. 3 tunnel on rope-roa No. 4 tunnel from Nine-r No. 5 return airway Upcast Shaft	No. 2 tunnel from Cannel Creek to No. 3 tunnel on rope-road Nine-mile No. 4 tunnel from Nine-mile Creek to No. 5 return airway Upcast Shaft	No. 2 tunnel from Cannel Creek to Nine-mil No. 3 tunnel on rope-road Nine-mile Creek No. 4 tunnel from Nine-mile Creek to Coal-f No. 5 return airway Upcast Shaft	No. 2 tunnel from Cannel Creek to Nine-mile Creek No. 3 tunnel on rope-road Nine-mile Creek No. 4 tunnel from Nine-mile Creek to Coal-face No. 5 return airway	No. 2 tunnel from Cannel Creek to Nine-mile Creek No. 3 tunnel on rope-road Nine-mile Creek No. 4 tunnel from Nine-mile Creek to Coal-face No. 5 return airway	No. 3 tunnel on rope-road Nine-mile Creek	No. 2 tunnel from Cannel Creek to Nine-mile Creek No. 3 tunnel on rope-road Nine-mile Creek No. 4 tunnel from Nine-mile Creek to Coal-face No. 5 return airway

Rope-road.—The spoil from the various tunnels was utilized for surface fillings on the rope-road, The work of grading the rope-road in the James Mine has been completed to a point where it will connect with the tunnel driven over the old rope-road. The road for the full tubs has been laid with 90 lb. to the yard tramway rails, and the road for the empty trucks has been laid with 30 lb. rails on the steep gradients, and with 90 lb. rails where the gradients are slight.

The date for the completion of the change-over of the haulage system from the one now used through the James Mine to the permanent system depends upon the completion of pillar-extraction in the west sections of the James Colliery. The approximate date of change will be December, 1939.

From the coal-face, Strongman Colliery, to cross-cut, James Colliery, a rope-road 113 chains long has been completed, 98 chains of which form part of the permanent road for the conveying of the coal from the new mine to the bin at Rapahoe.

Coal-seam.—The top seam, 23 ft. thick, was struck on 31st January, 1939, a section of which, taken from the borehole close to the fault, is as follows:—

On floor—						Ft. in.
Coal				 	• •	$\dots$ 2 0
Stone $\dots$		• •		 	••	0 8
Coal		4 W		 ••,		1 6
Stone $\dots$				 		1 0
Stone and	coal			 	•	2 0
Coal				 ••	• •	15 6
On roof: Sha	le	,	• •	 		0 6
•						

23

The coal is of good quality, and finds a ready market as a household, steam, and gas coal. A typical analysis is as follows:—

Proximate Analysis (on air-dried basis)— Moisture  $7 \cdot 2$ . . Volatile matter  $39 \cdot 9$ Fixed carbon 50.6. . . . ٠. Ash  $2 \cdot 3$ . . 100.0 Sulphur Calorific value 12,910 B.Th.U. per pound. Non-swollen lustrous No. 3.

Screening-plant.—The screening and storage plant ordered from Nortons-Tividale, England, arrived, and the erection was immediately commenced. A short description of the plant is as follows:—

Tippler.—The tippler is 6 ft. 6 in. in diameter, two-speed type designed to prevent spilling of coal, and fully automatic in action.

automatic in action.

The coal will be discharged on to an inclined reciprocating balanced screen 5 ft. wide and 55 ft. long screening to  $1\frac{1}{2}$  in. and  $-1\frac{1}{2}$  in. to  $+\frac{3}{4}$  in. The coal over  $1\frac{1}{2}$  in passes over the screen and is delivered to a 3 ft. wide flat rubber conveying and picking belt. The material through the  $\frac{3}{4}$  in mesh is delivered by a fixed chute on to a balanced horizontal high-speed screen which screens out all coal below  $\frac{1}{4}$  in. The  $-\frac{3}{4}$  in.  $+\frac{1}{4}$  in coal passes over this screen, and is delivered on to a 2 ft. 6 in loading-band, and all below  $\frac{1}{4}$  in mesh to a hopper for loading into wagons. By means of doors in the screens, and fixed chutes, it will be possible to make the following mixtures and sizes:  $+1\frac{1}{2}$  in. to  $\frac{3}{4}$  in.,  $-\frac{3}{4}$  in. to  $\frac{1}{4}$  in.; also run-of-mine coal.

Flat rubber conveyors are to be used for picking-belts. Each has a hinged lowering jib for loading the coal into railway wagons without breakage.

The steel storage bin is designed to hold the following sizes and quantities:  $-\frac{1}{4}$  in., 400 tons;  $-\frac{3}{4}$  in., 400 tons;  $-\frac{3}{4}$  in., 400 tons.

A scraper conveyor elevates the  $-1\frac{1}{2}$  in. coal to the top of the storage bin, where it is screened to the various sizes. Spiral chutes minimize the breakage of the coal that is delivered to the bin for storage purposes.

Bathhouse.—The reinforced concrete bathhouse, 60 ft. by 40 ft. with 14 ft. walls, has been erected adjacent to the mine-mouth. The bathhouse is designed to accommodate 100 men. The drying arrangements are designed on the latest air conditioning and heating method.

The boiler now operating consists of fifty-five  $Babcock\ Wilcox$  boiler tubes, heated by a No. 4 Iron Fireman automatic stoker with thermostatic control, supplying hot water to a heater unit. The thermostat so controls the heater that there is no waste of fuel. The hot water is fed to a heating unit consisting of two Trane hot-water heating coils each 36 in. by 24 in. by  $7\frac{1}{2}$  in. (two rows) capable of raising 3,500 cubic feet of air per minute from 60° to 150°. A thrust pump, direct coupled to a  $\frac{1}{6}$ -horse-power electric motor, capable of delivering 15 gallons of water per minute against a 5 ft. head, is attached to the return pipe of the heater unit, and is automatically controlled by a thermostat in the drying-room. The thermostat has a range of adjustment from 40° to 280° F., and can be set to control the air within a limit of from 5° to  $10^{\circ}$  F.

A 17½ in. Sirocco fan driven by an electric motor is attached to the air-heating unit, and forces the air, through suitable duct work, on to the damp clothes. The duct work is so arranged that cold air can be drawn in from the outside atmosphere or a damper can close off the outside air, and the fan then recirculates the air in the drying-chamber and bathhouse.

The hot air from the drying-room is exhausted from the drying-room under the doors leading to the central part of the bathhouse.

Ventilation.—A reinforced-concrete shaft 34 ft. in depth having been completed, preparations are being made for the transfer of the Sirocco fan from the James Mine.

Coal-cutting.—A Korfmann coal-cutting machine has been purchased, and is now being used. Owing to the presence of granite pebbles in the coal difficulty has been experienced in cutting the coal-faces. The cutter picks, on striking a pebble, wear rapidly, and it is necessary to change the picks frequently, thus slowing up the cutting-rate and throwing excessive strain on the cutter chain. Despite these drawbacks, the machine is giving good service.

Accidents.—No serious accidents occurred at the Strongman Colliery throughout the year.

C. J. STRONGMAN, Superintendent.

# NEW ZEALAND STATE COAL-MINES.

#### COLLIERY SALES ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 1939.

Dr.			LIVERE	OOL.	Јам	ES.	ļ	Cr.	LIVERP	00L.	James	3.
Railway haulage Wharfage Special rate Marine freight  Working Account: net f.o.r	Coal	sales	£ 10,351 2,241 640 35,187 48,421 117,001	11 5 9 0 10 10 10 2	£ 2,927 803 230 11,266 15,227 34,351	18 10 16	2 9 6 1	Sales of coal f.o.r., c.i.f., and f.o.b.	£ 165,423	s. d. 1 10	£ 49,579	s. d. 4 3
			£165,423	1 10	£49,579	4	3		£165,423	1 10	£49,579	4 3

# COLLIERY WORKING ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 1939.

Dr.	Liverpool.	James.	Cr.	Liverpool.	JAMES.
Stocks on hand, 1st April, 1938 Coal-winning— Wages	\$\begin{pmatrix} \psi & \text{s. d.} \\ 3,200 & 6 & 2 \\ 85,973 & 2 & 7 \\ 8,363 & 11 & 0 \\ 585 & 0 & 7 \\ 71 & 2 & 3 \\  \end{pmatrix}\$	£ s. d. 833 18 0 26,813 1 6 1,191 11 4 318 12 11 144 15 10 326 13 8	Sales Account: Sales of coal f.o.r	£ s. d. 117,001 11 8 66 5 0 1,799 11 9 804 3 4	£ s. d 34,351 7  751 19 10
Gross profit: To Profit and Loss Account	98,193 2 7 21,478 9 2 £119,671 11 9	29,628 13 3 5,474 14 4 £35,103 7 7		£119,671 11 9	£35,103 7

# COLLIERY PROFIT AND LOSS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 1939.

Dr.	LIVERPOOL.	James.	Cr.	Liverpool.	James.
Salaries Rents Interest Travelling-expenses Printing and stationery Repairs and maintenance Telegrams and postages Insurance Coal-miners' Relief Fund General expenses Audit fees Superannuation Fund subsidy Depreciation Rescue-station levy	£ s. d. 2,575 17 0 2,674 18 10 127 11 7 120 8 8 4,336 1 7 341 15 6 4,694 5 6 284 7 9 706 19 1 103 7 7 103 7 7 48 4 9 4,423 0 10 412 5 4		Gross profit at mine	£ s. d. 21,478 9 2 419 2 5	£ s. d 5,474 14 4 ·· 699 17 4
Net profit: Transferred to General Profit and Loss Account	20,849 4 0 1,048 7 7	6,174 11 8			
	£21,897 11 7	£6,174 11 8		£21,897 11 7	£6,174 11 8

# McDonald Colliery Profit and Loss Account for the Year ended 31st March, 1939.

Dr.						£	s.	d.	Ci	r.				£	s.	$\mathbf{d}$ .
Interest						1,879	6	6	Rents		 			200	5	0
Depreciation						1,230	15	3	Royalties		 	• •		5,091	16	8
A " 1						748	3	11	1							
Travelling-ex	penses					8	6	0								
Net profit :	Fransferr	ed to	General	Profit and	l Loss											
Account					• •	1,425	10	0								
									1							
						£5,292	1	8					;	£5,292	1	8
								-	1						-	*****

NEW ZEALAND STATE COAL-MINES-continued.

DEPOT TRADING ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 1939.

СН.	යි. 2 1 ඉපැ	10
CHRISTCHUR	2, 8s. d. 2,881 6 9 9,432 0 1 1,067 12 2	286,003 7
Wellington. Christchurch.	127,652 19 5 6,110 19 5 3,054 17 7 229 19 2	£137,048 15 7 £86,003 7 5
Or.	Sales of coal Sales of coke, wood, &c Stocks on hand at 31st March, 1939— Coal	
CHRISTCHURCH.	s. d.   £ s. d.   10,525   17   12   6   44,791   9   3   5   2   7   2,426   15   9   9   3   19,754   2   4   13   5   435   9   8   19   4   435   9   8   19   4   8,067   7   3	15 7 £86,003 7 5
WELLINGTON.	£ 8. d. 3,367 0 4 117,066 12 6 4,554 2 7 2,105 2 3 180 13 5 8,581 19 4	£137,048 15 7
Dr.	Stocks on hand, 1st April, 1938 Purchases of coal Wharfage and freights Haulage to depot Wages: Discharging Gross profit: To Profit and Loss Account	

Dr.		WELLINGTON.	CHRISTCHURCH.	Wanganui.		Wellington.	CHRISTOHUROH.	Wanganui.
		÷		πο α	2	94) 94)	69 69	જ
Wages: Yard	:	· 67	15	2	Trading Accounts: Gross profit	8,581 19 4	8,067 7 3	;
Salaries	:	1,611 17 2	1,390 0 6	:	Rents	:	:	29 0 0
Rents	:	388 16 0		:	Net loss: To General Profit and Loss			
Interest	:	273 4 7	115 11 2	:	Account	:	•	15 12 1
Travelling-expenses	:	128 1 5		:				
Repairs and maintenance	:	371 13 0	408 12 4	22 12 9				
Postages and telegrams	:	118 0 7	116 1 11				-	
Printing and stationery	:	106 2 5		:				
Insurance	:		40 16 9	2 9 6				
Cartage	:	2,562 3 11	2,385 17 4	:				
Sacks	:	14	139 3 5	:				
General expenses	:	8 8 969	326 15 4	:				
Audit fees	:							
Superannuation Fund subsidy	:	12	13 13 2	:				
Reserve for bad debts	:		27 1 4	•				
Rates	:	13 12 9	•	:				
Depreciation	:	13	206 3 11	19 9 10			***************************************	
Net profit: To General Profit and Loss	it and Loss							
Account	:	416 11 7	925 3 1	•				
		£8,581 19 4	£8,067 7 3	£44 12 1		£8,581 19 4	£8,067 7 3	£44 12 1

# NEW ZEALAND STATE COAL MINES—continued.

GENERAL PROFIT AND LOS	SS ACCOUNT FO	OR THE YEAR ENDED 31ST	March, 193	39.		
Dr, £ s. d. Net loss—	£ s. d.	Cr. Net profit—	£	s. d.	£ s.	d.
James Colliery          699         17         4           Wanganui Depot           15         12         1		Liverpool Colliery MacDonald Colliery	$\begin{array}{ccc} & 1,048 \\ & 1,425 \end{array}$			
Runanga Water-supply scheme	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Wellington Depot Christehurch Depot	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		9 015 10	. 0
Balance: Net profit for year carried down	13,313 1 11	Net recoveries— Seddonville Colliery Royalties Stores sales		6 1 3 9 4 6	3,815 12	. 3
		Net revenue from hire of plant Interest on investments		e	4,900 4 128 12 6,184 2	6
	£15,028 11 4				£15,028 11	
Sinking Fund Account for redemption of loan capital	£ s. d.  11,766 13 8 1,546 8 3	Net profit for year	••			d. 11
	£13,313 1 11				£13,313 I	11

NEW ZEALAND STATE COAL MINES—continued.

															9							С.
		ġ.								O m	4		•	ော	0 0	3			œ	0 11	7	
		တ်								867 18 426 14	706 13		;	_		-			2		8	Š.
		ભ								319,867 $426$	70		č	24,248	11,767	11,079			690 089	1,110	£427,494	Mine
	٠	•	2 <b>-</b> 1			9	ဗေ တ	0 1	ကက	- 316		6	127	33 i= 1	 	i	4 - 1	-1005	±   ~1 ⇔	5	£42′	of
		်င ပြွ	~	ic ic		Ξ'	∞ <u>-</u>	- 1				15	06				5 11	4 ∞ ~ 2]	1	• •		C. Webb, Minister of Mines.
				2,291	3,620	678		700	025 158		•		25,740 1,491		$^{11,540}_{138\ 19}$				50,069 19 7 5	, .		Mini
		ુ ભુસુ	187,241 49,411	2,291	i w	` '	3,732	,00	$320,025 19 \\ 158 1$			10,267 $15,472$	25,740 1,491		11,		4,	1,123 37,200 6,357 479	50,	• •		В, ]
		•													:::		. d.	9 - 6	0.			WEI
				•	٠.	•	•	•.	•	•	•		•				Sundry 8. 94 17 12 1	8 12 14 8 13 9	2.	• •		<u>ن</u>
															: : :		8u 4,794 12	1,123 35,627 6,187 468	48,214			Ъ.
	٠ پور		• •	•		٠	•	•	•	•	•		•				6 & G.	8 10	to   44 .			
	Assets.					٠							:		:::		Departmental. £ s. d. 77 7 8 24 10 0	572 18 169 14 11 6	. 17			
			 . <u>.</u>	•		·	•	•	·	·			·				Depart £ 77 24	1,572 18 169 14 11 6	1,855 17	+2		
			s -stoc	:	: :	:	_	:	:	:	:	::	:		:::		::	::::	:	300ur		
		•	Development and property accounts Machinery, plant, ropes, and rolling-stock			:	Coal stocks (bins, wharf, and affoat)		S <b>=</b>	စ			\$±=4						s==	Cash in Receiver-General's Deposit Account Cash in Public Account		
			y acc nd rc	iery)	: :	:	nd a	:	Less provisionally written off	Prospecting on State Coal Reserve	E.	: ;	Less provisionally written off		: <b>u</b> :		::	::::	Less provisionally written off	Sepos 		
		•	pert es, a	3			arf, a		writt	al R	on h	hand	writt	4	ors orkm				writt	al's I		
939		,	pro , rop	ames	i aa	ines	, wh	:	ally	ر دور	&c.,	nts s on	ally	- 4	to w		¥ :	ery ot pot	ally .	ener		
н, 1			t and plant	ıt (J. ™iii	mine	at m	(bins	Į.	ision	ı Sta	ent,	cour store	ision		nces rued		s — s — ollier	Colline Dept II	ision	ver-6 Ace		
ARC		1	omen ery, j	plan	S at	ions	ocks	en ma	prov	no gu	mdin	y Ac	prov	1	uma adva t acc		ebtor sol C Collid	nald ston hure nan	$\operatorname{prov}$	eceiv ublic		
31sт Максн, 1939.		ries-	veloj chin	Electric plant (James Colliery)	Cottages at mines	Plantations at mines	Coal stocks (bir Stones on hand		Less	pecti	Plant, equipment, &c., on hire	Property Accounts Stocks and stores on hand	Less	Sin Line Tues director and	Sinking rand investments Housing advances to workmen Interest accrued due		Sundry debtors— Liverpool Colliery James Colliery	MacDonald Colliery Wellington Depot Christchurch Depot Strongman Colliery	Less	Cash in Receiver-Gener Cash in Public Account		
31s		Collieries-	å 🎜 i	쾿	පී	Ĭď.	ဒီ∂	2		Pros	Plant, e Denote	24 TS			Hou In		Sunc Li	#B5%		Cash Cash		
S AT		<del>ت</del>		o	טי נס	:						-0 %			င္ က			,			-	
T.		ø		8	13						-	100		1	6 10 8 8						8	
HEE		<del>ા</del>		164 719	1,047 13						108 46	1,110 $11,767$		17	1,546						£427,494	
BALANCE-SHEET AS		. • •	<b>→</b> 4.	મું ન	1		ď	9 0	<b>∞</b>	0 80	ē	1 — —	īg Gr		.   .						£42	
MAN		-		<u>ب</u>			o	17 1		18			ညကောင်	9								
P.	}	. 6	416	59,301			606	734	$\frac{918}{5,600}$	$^{6}_{1,347}$			107	990,	:		٠					
		د د	ch i	56,			7	÷ 01	, Š	L,			$\frac{220,107}{1,240}$	œ oc								
			::	:	:	Ţ.		22	9 6 9	0 0	10		::	:	:			•				
					-	Sund	3 0	3 E	571 ( 246 1	$\begin{smallmatrix}6&10&0\\1,216&15&11\end{smallmatrix}$	187											
			::	:	:	(	1. 6 19 899	2,072	NO 64	1,2	01 920 71	: : :	::	:	:							ant.
	ties.					ıtal.	_		2 -	4	[	1			year							1.
	Liabilities.		::	:	:	Departmental.	£ 8.	10	1.20 10 4₁	: [3			::	:	for							, C. Acc
	Ţ					Depa	÷3 €	621	347 5,353	131	0 014	, e			rplus							gton 3Y,
			::	:	:			: :	: :	::		::	::	:	et sn							ellin, INNE
															Z : :							, W.
			::	:	oital			: :	::	::		::	::	Λe	count				-			State Coal-mines Office, Wellington, C. 1. C. H. Benner, Accountant.
		-	ot. ent.	nt.	n cal	•							4	Keser	s Ac							es ()
			er ce. per c	er ce	n loa		, }	<u>ج</u> :	ot ipot	t ery		acts		nce.	l Los							mim
		•	ω es. σ'-''ε	t. 1⊒	est o		ors -	ery	Dep h De	Depo Colli		ontre	serve Rese	ısura	t and							Joal-
		ital–	ies ad ies ad	ies a	inter	,	redit	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	gton	nui man		on e Fund	al Re	nt 11	Profi							rte (
		ı cap	Securities at 3½ per cent. Securities at 3½ per cent.	Securities at 4 per cent.	Accrued interest on loan capital		Sundry creditors—	James Colliery	Wellington Depot Christchurch Depot	Wanganui Depot Strongman Colliery		Deposits on contracts Sinking Fund	Reserves— General Reserve Bad Debts Reserve	Accident Insurance Keserve	General Profit and Loss Account: Net surplus for year							${\rm St}_{\tilde{\nu}}$
		زع Loan capital–	% % 8	ž	Accr		Sun	i e	≱ರ	₽Z		$_{ m Sink}$	ස වීධස ව	4	Gen							
2-	-(	).	2A	•																		

I hereby certify that the attached Working and Profit and Loss Accounts of Depots and Collieries, 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. H. FOWLER, Controller and Auditor-General.

	RCH
	MA
inued.	318T
cont	ΑT
ES	S, A
NEW ZEALAND STATE COAL-MINES—continued	ement of College Property Accounts as at 31st March
D STATE	SOPERTY
ZEALAN	LIERY P
NEW	Cor
FH	C.
	RMENT

			NEW ZEALAN	PEATAND STATE COAL MINES continued	Socntimod			
		ďΩ	, H	PROPERTY ACCOUNTS AS	AS AT 31ST N	AT 31ST MARCH, 1939.		
			LIVERPOOL.	JAMES.		MacDonald.	STRONGMAN.	FOTALS.
			£ s. d. £ s. d.	8. d. fr	s. d.	s. d. £ s. d.	£ s. d. £ s. d.	æ s. d.
Development and Property Account— Balance at 1st April, 1938 Additions during year	::	::	36,223 3 0 1,910 0 0	1,545 17 6	46,603 18	18 9	59, 283 3 6 44, 249 0 1	
Ordinary depreciation	:	:	38,133 3 0 1,342 10 5	:	1,230 15	15 3	103,532 3 7	
Less provisionally written off	:	:	36,790 12 7		:			187.241 17 2
Electrical Plant Account— Balance at 1st April, 1938 Depreciation	::	::	!	2,626 15 2 334 19 9		,		
Machinery, Plant, Ropes, and Rolling-stock–Balance at 1st April, 1938 Additions during year	<u>;</u> ::	::	22,910 7 4 2,350 5 2	2,790 11 7 271 17 9		:	15,377 10 11 8,966 16 0	
Sales	:	:	25,260 12 6 38 7 9	3,062 9 4			24,344 6 11	
Transfer to other accounts	:	:	25, 222 4 9	176 13 10	:		66 2 9	
Depreciation	:	•	25,222 4 9 2,479 9 11	2,885 15 6 550 12 9	:		24,278 4 2 	
Less provisionally written off	:	:	22,742 14 10 31 0 0 99 711 14 10	2,335 2 9	·	3	94 978 4 2	49.325 1 9
Buildings at mine— Balance at 1st April, 1938 Additions during year	: :	: :				•	•	1
Less depreciation	:		5,281 4 3 367 13 6	726 12 5 110 4 8	:		8,656 17 0	
Less provisionally written off	:		$\begin{array}{c} 4,913 & 10 & 9 \\ 3 & 15 & 0 \\ \end{array}$	616 7 9	7 9	:	0 8,656 17 0	14,183 0 6
Carried forward	:	:	£64,412 3 2	£6,789	3 5	£45,373 3 6	£136,467 4 9	2253,041 14 10

NEW ZEALAND STATE COAL-MINES—continued.

	STAT	STATEMENT OF COLLIERY	LLIERY	PROPERTY ACCOUNTS AS	ΑT	31ѕт Мавсн,	31st March, 1939—continued.		
3		LIVERPOOL.	.00I.		James.	MA	MacDonald.	Strongman.	Totals.
C. 2A	:	£ s. d.	£ 64,412	s. d. £	s. d. £ s. 6,789 3	d. £	d. £ s. d. 45,373 3 6	£ s. d. £ s. d. 136,467 4 9	£ s. d.
Courages at mine— Balance at 1st April, 1938 Additions during year	: :	3,062 0 3 770 0 8				::		::	
Less depreciation	:	3,832 0 11 211 11 4	3,620	L 6		:			3 690 0 7
Plantation at mine— Balance at 1st April, 1938 Less recoveries	::	167 10 5 142 16 3			<b>:</b>	716 15	 3 11	: : :	,
Coal (stock on hand at mine, wharf, and afloat) Stores (stock on hand) Less provisionally written off	:::	58,862 13 8 68 0 1	2,603 15		751 19 10	. : :	# /1 600	376 13	
		13: 11	£129,455 15	20 10 11 12 11 12 11 11 11 11 11 11 11 11 11	£7,541 3	60	£46,027 0 10	£136,843 18	58,794 13 7 4 £319,867 18 0
		STATEMENT OF		POT PROPERTY	DEPOT PROPERTY ACCOUNTS AS AT 31ST MARCH, 1939.	AT 31ST MARC	н, 1939.		
				WELLINGTON	NGTON.	Christ	CHRISTCH URGH.	WANGANUI.	TOTALS.
Depot Property Account— Balance at 1st April, 1938 Additions during year	::	::	::	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	£ s. d.	£ s. d. 2,908 9 6 83 18 6	s, d.	£ s. d. £ s. d. 104 5 11	ж « «
Sales	:	:	:	7,767 19 10	***************************************	2,992 8 0 39 10 0		:	
Less depreciation	:	:	:	7,752 19 10		2,952 18 0 206 3 11	•	19 9 10	
Less provisionally written off	:	:	*	7,416 6 3	2	2,746 14 1			:
Stocks and stores on hand Less provisionally written off	::	::		3,677 5 7 245 16 10	3,431 8 9	11,794 19 6	2,746 14 1 — 10,569 6 4 —	84 16 1	10,247 16 5
					£10,847 15 0		£13,316 0 5	£84 16	

# NEW ZEALAND STATE COAL-MINES—continued.

# STATEMENT OF RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST MARCH, 1939.

STATEMENT OF INECEIPTS AND PAYMENTS	FOR THE LEAR ENDED SIST MARCH, 1959.		
Receipts.	Payments.		
£ s. d. £ s d		£ s. d	d.
Cash in Public Account at 1st	Wages 26,760 13 6		
_ April, 1938 11,956 5 2			
Proceeds sale of coal, &c 273,087 4 5	Coal purchased 27 2 3		
Recoveries, refunds, &c 1,981 16 2	Subsidized bus fares		
Royalties 10,005 18 10	Electric power		
285,074 19 5	27	,625 7	<b>2</b>
Interest			
Capital raised 95,000 0 0 Dishonoured cheques recredited 29 6 10	1		
7 200			
Repayment of housing loans 1,639 9 8	Special rate		
and the second s	Coal purchased 75 10 6		
	Buildings 42 19 10		
	0	8,823 1	Q
	Development of new mine, Nine-	,020 1	G
	1	.437 2	5
	1 77 , ,		5
	Plant and stores 76		4
	MacDonald Colliery Account	863 4	7
	Wellington Depot Account 20	,151 17	0
	Christchurch Depot Account 28	,462 14	
	Wanganui Depot Account	45 2	3
	Coal purchased on account of		
		,006 10	7
•	Cargo adjustments (co-operative coal)	0.14	o
	Superannuation Fund subsidy 99 7 2	2 14	b
	Management and office salaries . 6,447 0 11		
	Interest		
	Travelling-expenses		
	Printing and stationery 198 16 3		
	Repairs and maintenance 3,532 12 0		
	Wharfage 2,750 5 8		
	Railway haulage 13,124 19 2		
	Marine freights		
	Postages and telegrams 409 11 7		
•	Insurance 54 19 11		
	Rents 88 12 4		
	Compensation		
	General expenses		
	Audit fees 215 0 0		
	Cheques dishonoured		
	Rescue-station levy 520 17 11		
	Boring and prospecting		
	100	,375 9 (	0
		,625 6 1	
	<u> </u>		

£393,731 12 11

£393,731 12 11

NEW ZEALAND STATE COAL-MINES—continued.

Table showing the Position of the State Coal-mines Account from Inception to 31st March, 1939.

Name of Works.	Total Capital Expenditure.	Total Amount of Depreciation written off.	Assets as per Balance-sheet, 31st March, 1939.	Net Profits.	Net Losses.	Liabilities as per Balance-sheet, 31st March, 1939.
	£ s. d.	£ s. d.	£ s. d.	1 0000 455	£ s. d.	£ s.d
Point Elizabeth Colliery Less sales and loss by fire	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		The state of the s			
i komunika i Kalendaria. Kananan	95,919 2 1	95,919 2 1		147,583 4 11		i verge Gundalik i jiri
Liverpool Colliery Less sales, transfers, and loss	335,479 12 4 9,279 9 9	·			18.00	₹ - 7.85± 77 - 88 - 11 - 47± 11 - 47± 1.11 - 11+ 1.45±
by fire	326,200 2 7	258,142 15 8	68,057 6 11	54,700 1 0	git elektronis elegi i <b>ka</b> ker i ett	17,283 8 6
Seddonville Colliery Less sales	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				in the second of	
	37,694 5 5	37,694 5 5			36,893 4 4	• • • • • • • • • • • • • • • • • • • •
Briquette-works property Less sales of plant	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				Anna ta di di	
<b>*</b> .	14,068 17 6	14,068 17 6			22,660-18 10	•
Prospecting on State Coal	11,601 6 3					
Reserve Less transfers	10,785 8 0			,	. Januari en 1999	and the same
	815 18 3	389 4 0	426 14 3		and a second	in enter a large to the production of the second se
Plant, buildings, &c., on hire Less sales, transfers, &c	7,319 11 6 3,553 3 9				Administration	i de la composition de la composition La composition de la composition de la La composition de la
	3,766 7 9	3,059 14 5	706 13 4	408 6 1	e Negroee Alie •• A	
Charming Creek prospecting	5,956 18 6	5,956 18 6	• •	••		and that the factors of
James Colliery Less sales, transfers, &c	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				1. 1.44 - 1.44 j	in the barries
	71,272 17 9	64,483 14 4	6,789 3 5	,,	13,120 11 8	2,734.17.10
Development of new mine, Nine-mile Area	136,843 18 4		136,467 4 9	• •		1,347 18 3
MacDonald Colliery Less recoveries	93,600 4 11 756 8 1	1 - 1		v .		Part Constant
and the formers of the property of the propert	92,843 16 10	46,816 16 0	46,027 0 10		30,719 5 4	••
Wellington Depot Property Less sales and transfers	21,535 19 6 887 0 2					
	20,648 19 4	13,232 13 1	7,416 6 3	••	273 9 0	918 5 8
Christchurch Depot property Less sales and loss on horses	14,785 9 10 384 3 7					
	14,401 6 3	11,654 12 2	2,746 14 1	18,006 6 4		5,600 0 10
Wanganui Depot property Less sales and loss on horses	3,735 13 0 308 18 11					
	3,426 14 1	3,341 18 0	84 16 1	••	2,244 0 0	6 10 (
Dunedin Depot property Less sale of plant	2,023 3 7 641 10 0		:			
	1,381 13 7	1,381 13 7			4,248 3 5	
Hulks property Less sales	4,033 15 5 1,948 17 0					
	2,084 18 5	2,084 18 5		1,786 12 11	••	
Office furniture Less sales	189 13 9 17 5 0					
	172 8 9	172 8 9	Salawaran — mas	To see the commence of the c	172 8 9	
Grand total Less losses, sales,	863,732 12 10 36,234 7 5		Barther Wilder State Control of the	maria da ser de la composición del composición de la composición d		
transfers, &c.	£827,498 5 5	£558,399 II II	£268,721 19 11	: 1 <u></u>	<u>.</u>	
Carried forward			268,721 19 11	222,484 11 3	115,877 3 3	27,891 1 1

<sup>\*</sup> Includes interest (£30,285 19s. 10d.) capitalized from date of purchase to date lease was granted—now written off.

# NEW ZEALAND STATE COAL-MINES—continued.

Table showing the Position of the State Coal-mines Account from Inception to 31st March, 1939—continued.

and the second second		00100	naca.			
Name of Works.	Total Capital Expenditure.	Total Amount of Depreciation written off.	Assets as per Balance-sheet, 31st March, 1989.	Net Profits.	Net Losses.	Liabilities as per Balance-sheet 31st March, 1939.
Brought forward Royalties (from 1st April, 1928, only) Interest on investments	£ s. d.	£ s. d.	£ s. d. 268,721 19 11 	£ s. d. 222,484 11 3 49,877 6 4 85,747 5 10* 13 2 9	\$ s. d. 115,877 3 3 89 0 1 2,960 0 0	£ s. d. 27,891 1 1
Refund: Mines Department, 1932-33 (administrative expenses inurred in previous years) Runanga water supply scheme Stores sales				224 14 6	1,000 0 0	
Total, profit and loss Balance : Profits over losses				£358,347 0 8	124,926 3 4 233,420 17 4 £358,347 0 8	
Stocks on hand less provisionally written off	••		76,527 17 2	• •		
Interest on investments accrued Sinking Fund investments		:: :: ::	11,767 3 8 50,062 13 8 7,625 6 11 1,110 0 0 11,679 7 3			
and accrued interest Loan Account Bad Debts Reserve Accrued interest payable Sinking Fund General Reserve General Profit and Loss Account Deposits on contracts Accident Insurance Reserve				11,767 3 8 220,107 5 5 1,546 8 3		154,718 6 8 1,240 3 9 1,047 13 5 11,767 3 8 220,107 5 5 1,546 8 3 1,110 0 0 8,066 6 4
The state of the s			£427,494 8 7	£233,420 17 4	••	£427,494 8 7

<sup>\*</sup> Includes interest on sinking fund investments.

Approximate Cost of Paper.—Preparation, not given; printing 545 (copies), £22 10s.