

MININD1909-2

THE PROGRESS OF  
THE MINERAL INDUSTRY  
OF  
TASMANIA

FOR THE QUARTER ENDING 30TH JUNE, 1909

COMPILED BY

W. H. WALLACE,

SECRETARY FOR MINES

BY ORDER OF

THE HONOURABLE ALEC. HEAN

MINISTER FOR MINES



Tasmania:

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1909



PROGRESS OF THE  
**MINERAL INDUSTRY OF TASMANIA**  
 FOR THE QUARTER ENDING 30TH JUNE, 1909.

Hobart, 20th August, 1909.

The following table shows, as far as can be ascertained, the quantities and values of Metals and Minerals raised during the quarter ending 30th June, 1909, as compared with the previous quarter ending 31st March, 1909:—

	During the Quarter ending 30th June, 1909.		During the Quarter ending 31st March, 1909.	
	Quantity.	Value.	Quantity.	Value.
		£		£
* Gold won ..... ozs.	12,449·248	52,881	11,039·788	46,894
Silver-lead Ore produced tons	20,821·26	82,790	18,473·51	81,055
† Blister Copper produced ..	2199	148,544	2120	144,973
Copper Ore and Copper produced..... "	819	9617	312·55	3648
Tin Ore produced..... "	1132·32	102,731	862·7	76,454
Coal raised..... "	16,297	13,852	13,353·75	11,351
Wolfram Ore produced... "	9·75	820	2·8	252
Bismuth..... "	1	400	1·25	450
	...	411,635	...	365,977

\* Fine gold, including gold contained in blister copper and silver-lead bullion.

† Value of gold contents deducted.

## GOLD.

During the past quarter, 7006·5 ozs. of gold were obtained from quartz, 140·25 ozs. from alluvial, 1099·75 ozs. by means of the cyanide and chlorination processes, 2627 ozs. from blister copper from the Mt. Lyell Mining and Railway Company, Limited, and 1628·46 ozs. from the silver-lead bullion from the Tasmanian Smelting Company's works, Zeehan, valued at £52,881.

The following table shows the quantities obtained from the various sources on the different fields during the period under review, together with the totals for the corresponding period of 1908, and the previous quarter ending 31st March, 1909:—

	Gold obtained during the Quarter ending 30th June, 1909.						Totals corresponding Quarter, 1908.	Totals for Quarter ending 31st March, 1909.
	From Quartz.	Alluvial.	Cyanide & chlorination.	From Blister Copper.	From Silver-lead Bullion.	TOTAL.		
	ozs.	ozs.	ozs.	ozs.	ozs.	ozs.	ozs.	
Beaconsfield	6590	...	967	...	...	7557	9017	
Mathinna ...	350	...	...	...	...	350	1484	
Mt. Victoria	} 59	105·25	...	...	...	164·25	162·87	
Warrentinna								
Mt. Cameron	} ...	...	132·75	...	...	132·75	380	
Lefroy .....								
Lisle .....	} 7·5	20	...	...	...	27·50	55	
Golconda ...								
West Coast.	...	15	...	2627	1628·46	4270·46	4512	
<b>TOTALS</b>	<b>7006·5</b>	<b>140·25</b>	<b>1099·75</b>	<b>2627</b>	<b>1628·46</b>	<b>12,501·96</b>	...	
Totals corresponding Quarter, 1908.....	8581	234·87	2343	4308	144	...	15,610·87	
Totals for Quarter ending 31st Mar., 1909.....	4861	75·25	1552·5	2989	1579·88	...	11,057·63	

Value £52,881; equal to 12,449·248 ozs. fine gold.

BEACONSFIELD.—The quarter's statistics for the district are as follow:—

	Gold produced. ozs.	Men employed.
Tasmania Mine .....	7300	538
Tasmanian Tailings Syndicate...	257	17
Others .....	...	16
<b>Total.....</b>	<b>7557</b>	<b>571</b>

*Tasmania Mine.*—Twelve thousand three hundred and twenty-three tons of quartz crushed, and 7300 ozs. gold obtained (by amalgamation and chlorination), which makes a total of 785,202 tons quartz crushed, and 735,714 ozs. gold obtained since the mine was first started.

LEFROY.—The quarter's statistics are as follow:—

	Gold produced. ozs.	Men employed.
New Pinafore.....	...	12
Creek Cyanide .....	132·75	21
Kitto's Chum Syn .....	...	2
Others .....	...	20
Totals.....	<u>132·75</u>	<u>55</u>

The different companies and parties are all prospecting, with some hope of success.

*The New Year's Gift* is following up a small reef showing good gold, and intend having a crushing shortly.

*New Pinafore* is driving east and west on their new reef at 70 feet deep, but cannot report anything payable yet.

*South Murchison* is operating on the Land o' Cakes big reef, and prospects are said to be favourable.

Gold returns from Creek Cyanide Syndicate do not represent the total, as owing to delay in obtaining assay licence their slimes had to accumulate, whereby next quarter will be larger.

LISLE, GOLCONDA, &C.—Twenty-seven and a half ozs. of gold have been won from these fields. Thirty-three men have been employed.

RINGAROOMA.—The New River Freehold Company obtained 59 ozs. of gold from quartz, and employed five men.

*Alluvial Gold and Dredging Companies.*—Gold has been obtained by the following companies in streaming tin:—

	Standard Gold. ozs.
Ringarooma Dredge .....	45·75
Dorset Dredge .....	15
S. Mt. Cameron T.M. Co. ....	14
Briseis Co.....	25
New Brothers' Home No. 1 Co. ....	5·50
Total .....	<u>105·25</u>

MATHINNA.—The quarter's statistics are as follow:—

	Quartz crushed. ton-	Sand treated. tons	Gold produced. ozs.	Men
New Golden Gate .....	337	...	250	41
Tower Hill .....	170	...	88	8
Golden Horseshoe.....	32	...	12	6
Others .....	...	...	...	32
Totals .....	539	...	350	87

WEST COAST.—Mr. Inspector Curtain reports:—The Davie P.A., at Lynchford, are still prosecuting their labours along the wall of this formation, in order to reach the northern end, where exhaustive surface sampling furnishes the fact that the body will there average 9 dwt. to the ton. Four men employed.

*Rinadeena P.A.*—Adjacent to the crown of the Abt portion of the Mt. Lyell Company's railway, a small co-operative party have persistently worked for the past two years, and driven over 400 feet in order to cut a mineralized pug formation that traverses the country from the antimony show or sections. Nearing their objective they cut into what is apparently a limestone vug, and for the present have lost their face; but with an experienced man this can be regained, and the work renewed with, I trust, final satisfaction. Mr. A. Christmas is at the head of the party, and has three others with him.

*Alluvial.*—Mr. F. O. Henry's Gormanston and Queenstown branches report the purchase of 15 ozs. which were obtained by six men, chiefly from the Queen River and Howard's Plains.

#### GOLD MINING AT GLADSTONE.

The Government Geologist reports:—

Some work has been proceeding at two points near the Gladstone township, viz. (1) a little north of the old Royal Tasman, by the Dreadnought Gold Mining Syndicate, and (2) at O'Halloran's and Saville's discovery, by the Gladstone Gold Prospecting Association.

(1) *Dreadnought Gold Mining Syndicate.*—The reef crops out at surface near the old Tasman shaft, and a cut has been put into it showing the stone to be, roughly, east and west. A little stone has been got, and the reef-channel proved to be about 4 feet wide, but in the cut it has apparently narrowed somewhat. Below is the North Tasman tunnel, which was driven upwards of 300 feet in a northerly direction, with drives at the end both east and west, but now fallen in.

At present nothing much can be seen of the lode underground, but the stone has apparently come down to this level. The old hands say that the reef-channel was about 8 feet wide, of which 4 feet consisted of a horse of mullock. What stone is visible is

mottled and kindly looking, but nothing definite can be learned as to the occurrence before the old drives are cleared out. The reef seems to be a parallel one with the Royal Tasman reef. The latter was expected to be cut in the tunnel, but has not been seen. Some rich samples are stated to have been taken.

(2) *Gladstone Gold Prospecting Association*.—The ground on which operations are proceeding is across the creek, opposite the Dreadnought. Here, too, a parallel reef is being worked upon. A north and south reef, with stone 6 to 10 inches wide, has been opened upon, and good assays stated to have been obtained. I saw that free gold occurred in the stone. A hundred feet north from the open-cut the reef is intersected by another, which also yields good prospects, with good gold also in the rubble. A shaft is being sunk near the intersection to test the reef in depth.

If these reefs at Gladstone can be shown to be worth development—and they certainly seem worth proving—good work will have been done. The occurrence of this gold tends to confirm the old Royal Tasman discovery, which, at the time, received scant credence, but which, perhaps, after all, deserved better treatment.

## TIN.

The statistics for this metal for the past quarter are as follow:—

	Ore won.	Value.	Men employed.	
	tons.	£	Europeans.	Chinese.
Northern and Southern Division	15.50	1550	45	...
North-Eastern Division.....	613.95	58,798	631	85
Eastern Division.....	93.50	8437	252	26
North-Western Division.....	353.57	29,370	456	...
Western Division.....	55.80	4576	136	...
Totals.....	1132.32	102,731	1520	111

## NORTH-WESTERN DIVISION.

The output has been as under:

	Ore won.	Men employed.
	tons.	
Mount Bischoff .....	260	310
Mt. Bischoff Extended .....	65.47	98
Waratah Alluvial.....	4.65	6
Wombat Mine .....	5	4
Stanhope Alluvial .....	...	1
Weir's Bischoff Surprise.....	1.25	3
Mt. Cleveland .....	17.20	31
Others .....	...	3
Totals.....	353.57	456

## THE MINERAL INDUSTRY

*Mt. Bischoff Extended.*—Mr. W. Gullock, manager, reports:—Additional crushing-plant has been erected. The deep-level workings are opening up very satisfactorily. Increase of output will now be assured.

## NORTH-EASTERN DIVISION.

## PIONEER AND GLADSTONE DISTRICTS:—

	Tin ore won. tons.	Men employed.	
		Europeans.	Chinese.
Pioneer Tin Mine .....	112	100	...
Pioneer Extended .....	9	21	...
Argus Tin Mine.....	6.40	14	...
South Mt. Cameron .....	18	42	...
Ringarooma Dredge .....	11.25	16	...
Dorset .....	5.20	17	...
Purdue Tin Mine .....	10.60	22	...
Garibaldi.....	5.20	16	9
Other Claims .....	19.60	48	54
<b>Totals .....</b>	<b>197.25</b>	<b>296</b>	<b>63</b>

## RINGAROOMA DISTRICT:—

	Tin ore won. tons.	Men employed.	
		Europeans.	Chinese.
Bell's Hill Mine .....	2	4	...
Others .....	2.75	18	...
<b>Totals.....</b>	<b>4.75</b>	<b>22</b>	<b>...</b>

## DERBY DISTRICT:—

	Tin ore won. tons.	Men employed.	
		Europeans.	Chinese.
Briseis Tin Mines.....	240	151	...
New Brothers' Home, No. 1....	36.85	19	...
Briseis Extended .....	17	32	...
Other Derby Claims .....	3.05	6	9
<b>Total .....</b>	<b>296.90</b>	<b>208</b>	<b>9</b>

## BRANXHOLM DISTRICT:—

	Tin ore won. tons.	Men employed.	
		Europeans.	Chinese.
Arba Tin Mine .....	77	30	...
New Ruby Flat .....	13	18	...
Other Claims .....	1.35	2	13
<b>Total .....</b>	<b>91.35</b>	<b>50</b>	<b>13</b>

MOORINA DISTRICT.—

	Tin ore won. tons.	Men employed.	
		Europeans.	Chinese.
Weld Tin Mine .....	13·75	12	...
Native Youth .....	2·25	7	...
Abbotsford .....	55	4	...
Mutual Hill.....	2·45	6	...
Wilberforce Pump Co.....	3·20	8	...
Other Moorina Claims .....	1·50	18	...
<b>Total.....</b>	<b>23·70</b>	<b>55</b>	<b>...</b>
<i>Total for North-Eastern Division .....</i>	<i>613·95</i>	<i>631</i>	<i>85</i>

EASTERN DIVISION.

	Tin ore won. tons.	Men employed	
		Europeans.	Chinese.
<i>Weldborough Mines.</i>			
Fancy Creek Co. ....	3·70	6	...
Weldborough Mine .....	1·05	3	...
Bryce Bros. ....	4·10	6	...
Tallywang.....	2·30	4	...
Other Claims .....	14·35	26	20
<b>Total .....</b>	<b>26·00</b>	<b>45</b>	<b>20</b>
<i>Lottah and Blue Tier Mines.</i>			
Anchor Mine .....	40·5	115	...
Other Claims .....	6	38	6
Chinese Claims .....			
<b>Total .....</b>	<b>46·5</b>	<b>153</b>	<b>6</b>
<i>St. Helens Mines.</i>			
C. Miller .....	·60	4	...
A. Williams .....	1·80	6	...
J. C. Macmichael.....	2·95	6	...
Royal Ruby Co. ....	3·65	8	...
Deep Lead.....	1·35	2	...
Others .....	1·75	8	...
<b>Total .....</b>	<b>12·10</b>	<b>34</b>	<b>...</b>
<i>Avoca Mines.</i>			
Story's Freehold .....	·55	3	...
Roy's Hill.....	3	4	...
South Esk .....	2·65	3	...
Other Claims .....	2·70	10	...
<b>Total .....</b>	<b>8·90</b>	<b>20</b>	<b>...</b>
<i>Total for Eastern Division</i>	<i>93·50</i>	<i>252</i>	<i>26</i>

## THE MINERAL INDUSTRY

## WESTERN DIVISION.

	Tin ore won. tons.	Men employed. Europeans.
Boulder .....	11·70	28
Renison Bell.....	...	14
Montana Tin Syn. ....	27·10	27
Federation.....	3·75	6
Mayne's.....	6·50	6
Various Claims.....	6·75	55
Total .....	55·80	136

*Renison Bell.*—Mr. W. A. J. Briggs, manager, reports:—During the quarter work on the mine has been confined to the erection of the battery, trams, &c. The works are almost completed, and the mine and mill will be in full work about the end of July, when a good output of tin oxide will be maintained.

## NORTHERN AND SOUTHERN DIVISION.

	Tin ore won. tons.	Men employed. Europeans.
Shepherd and Murphy Mine .....	15·5	45

## SILVER

WEST COAST.—The registered output of silver ore in the Western Division for the quarter ending 30th June is given below:—

Zeehan Mines:		Ore.	ons.	Value.	Men.
Mount Zeehan, Tas.	galena	.....	509	£5464	109
Zeehan-Montana	"	.....	805	13,210	267
Zeehan-Western	galena, &c	.....	1801	793	32
Silver Queen Extended	"	.....	21	124	10
Oonah	stannite	.....	1269	5296	54
Zeehan Queen	galena and gossan	.....	7	50	4
Florence	galena	.....	40	419	24
New Mt. Zeehan	"	.....	31·35	123	3
Tas. Sme'ting Co's. Sections	"	.....	38·31	234	7
Victoria-Zeehan	gossan	.....	...	...	6
Colonel North	galena	.....	108	1073	20
Section 1914-M	"	.....	18	174	6
Dundas Mines:					
West Comet	gossan, &c.	.....	268	595	6
Comet	gossan	.....	5718	4067	37
Hercules	zinc-lead sulphide.	.....	3800·60	12,447	92
"	zinc blende	.....	696	1578	6
Adelaide	galena and gossan.	.....	368	4320	50
Mariposa	—	.....	51	66	2
Rosebery Mines:					
Primrose	sulphide	.....	1061	3831	14
Tasmanian Copper	"	.....	890	3835	25
"	zinc ore	.....	100	946	—

	Ore.	Tons.	Value.	Men.
<i>Mt. Farrell Mines :</i>				
North Mt. Farrell	galena .....	803	6827	150
Mackintosh Mine	" .....	30	510	6
Murchison River	" .....	—	—	7
<i>North Pieman :</i>				
Chester Mine	iron pyrites .....	65	65	20
<i>Mt. Lyell :</i>				
Tasman & Crown Lyell	—			
Extended	—	372	2145	30
<i>Sundries :</i>				
Tasmanian Smelting Co. ....		...	...	330
Sundry Companies.....		...	...	125
Prospectors, &c. ....		...	...	
Total .....		18,870·26	£68,192	1436

*The Mt. Zechan (Tasmania) Silver-lead Mines, Limited.*—Mr. T. Vincent, manager reports:—No. 5 Shaft.—No. 1 lode south driven to 316 feet; passed 70 feet poor seconds. No. 2 lode south driven 244 feet; lode 6 feet siderite, with traces of copper.

*Zechan-Western.*—Mr. J. Craze, manager, reports:—During the quarter the principal operations have been carried out on the Beauty Lease, where we have sunk a shaft to 50 feet and driven along the lode for 60 feet, when a burst of water was met with, which compelled us to abandon operations. At No. 1 shaft we are sinking a winze on No. 2 lode, and driving north on No. 1 lode. Both points are now paying their way. The lode is small, but payable.

Tributers.—Five parties of tributers are at work on the mine raising flux for smelters, and a little galena ore.

*Zechan Montana Mine.*—Mr. J. Craze, manager, reports:—No. 1 Shaft.—The developmental work at this point is confined to No. 3 lode, Nos. 1 and 3 levels. The usual number of stopes are in operation.

No. 2 Shaft.—This shaft has been sunk to the 500-foot level, station cut, and crosscut driven west 150 feet. At 100 feet from shaft, No. 1 lode was intersected. Drives are being driven north and south. Where cut the lode was small and poor. The lode is now much improved in the south drive, being now 4 feet wide, showing ore throughout. The west cross-cut is being continued to cut No. 2 lode, which we expect to reach in about 80 feet further driving.

*Florence Mine.*—Mr. F. K. Astell, manager, reports:—Work this quarter has been principally carried on erecting the machinery removed from Austral Valley, and I expect at the beginning of next month to see it under steam. The plant, when it starts, will

be about the best job on the field. About 80 horse-power of steam will be generated from two large Cornish boilers.

*Victoria-Zeehan.*—Mr. A. Batten, manager, reports:—Put in new boiler, and effected certain alterations to plant. Commenced unwatering the mine on 30th June.

*Colonel North Mine.*—Mr. C. W. Mayo, manager, reports:—Operations have been confined to stoping on main lode between Nos. 3, 2, and 1 levels, and crosscutting east and west at No. 1 level. The stopes are worked by tribute parties, the ore bodies varying in width from 3 inches to 2 feet, and length from 6 feet to 30 feet. A western crosscut has been extended to 290 feet in hard quartzite and altered sandstone. Small seams of blende and galena have been passed through. The eastern crosscut is out 54 feet in hard mineralised sandstone and slate country. This is good prospecting work, and should prove the existence or otherwise of parallel ore bodies. The mine is being handled carefully and economically. A superheater is being installed, which should prove a fuel economiser.

*Oonah Mines, Limited.*—Mr. O. S. Davis, manager, reports:—The following is a summary of work done during the quarter:—Driven 324 feet as under:—Level VI., north drive on lode, 40 feet; Level V., north drive on lode, 88 feet; Level IV., north drive on lode, 120 feet; Level IV., south drive on lode, 76 feet. Mining, *i.e.*, stoping.—Stoped 173 feet as follow:—Level VI., north, 26 feet; Level V., north, 92 feet; Level IV., north, 38 feet; Level IV., south, 17 feet. All drives have been timbered throughout.

*Silver Queen Extended.*—Mr. W. Fisher, manager, reports:—Block VII. (Featherstone) is the only productive tribute at present. The No. 2 Argent closing down flooded the B. VII. workings. A winze has been sunk from level above down to the water, a depth of 40 feet, and opened out where there is fair ore, from 6 to 8 feet wide.

Clarke (Block IV.) is driving an adit to cut continuation of Queen No. 4 lode. He is in 240 feet, leaving some 40 feet yet to drive to intersect the line of lode.

The other tributers are really prospecting.

DUNDAS.—*Comet Mine.*—Mr. Gerald Ahern, manager, reports:—The principal work during this quarter was breaking fluz from northern portion of lode on the open-cut system. The lode here has an average width of 70 feet, and the vertical depth to top tunnel from surface is 90 feet. I am now engaged in driving a lower level, which will give 60 feet more backs under the present open-cut; and as the level is continued south, the total backs will reach 200 feet at the highest point of the hill.

A water-race, 60 chains in length, has been constructed to enable us to hydraulic the overburden from the open-cut, in the south workings, which have been idle during this quarter.

*West Comet Mine.*—Mr. V. Braggiotti, general manager, reports:—On the surface six men have been employed removing overburden and breaking iron flux from open-cut benches. A parcel of this was forwarded to Cockle Creek, and we are now engaged breaking a regular supply of about 600 tons per month.

In the underground workings the tributers have been sinking a winze from the main level, at 110 feet from the surface. This winze is now 50 feet below the level. It has been driven on both north and south for a distance of about 30 feet each way, and a fair amount of high-grade galena and seconds stoped out.

*Adelaide Mine.*—Mr. Thomas J. Dyson, manager, reports:—During the quarter the principal work was stoping between Nos. 4 and 3 levels, and driving for the same run of ore at No. 5 level. The drive met with ore at 70 feet from the shaft.

Exploratory work to the west proved a cross lode, which is fairly promising, and is being further opened up.

MT. READ DISTRICT.—*Hercules Mine.*—Mr. Claude H. Moxon, manager, reports:—During the past quarter the usual output has been maintained. The production has been principally obtained from the newer ore bodies lately opened up, and particularly from the "E" lode, which has now proved to be over 100 feet in length, and of a present known width of 60 feet. A connection to the level above in this lode has also been established by rising 52 feet.

A considerable amount of developmental work in the upper levels, principally the proving of the continuity of the known ore lenses, has also been accomplished.

During the term a new cable has been installed on the haulage tramway. The rope is  $2\frac{1}{2}$  miles in length, and  $1\frac{1}{4}$  inches in diameter. The plant generally has been overhauled, and is now running smoothly.

*Mt. Read Mine.*—Mr. W. J. Moyle, manager, reports:—Only two men are employed driving the 600-foot level crosscut. This has now been driven 1613 feet from the point of commencement, but nothing of value has yet been disclosed. Two lode-formations were cut, carrying silver-lead and zinc sulphides 28 feet and 30 feet wide each respectively; both very poor.

ROSEBERY DISTRICT.—*Tasmanian Copper Mine.*—Mr. G. Barker, manager, reports:—The only work done during the last quarter in both the Tasmanian Copper Company's Mine and the Primrose was stoping-out ore. No development work done.

In both the mines there are large bodies of ore available for stoping, as both mines are well opened up.

## THE MINERAL INDUSTRY

**Mt. FARRELL DISTRICT.**—Murchison River Mine.—Mr. M. J. Thornton, manager, reports:—Since resuming work on 3rd May about 300 tons of milling ore have been broken from the open-cut and a stope north of No. 1 crosscut. The same has also been securely timbered and made ready for the further breaking of ore.

**Mackintosh Tribute.**—Mr. J. Geddes reports:—The crosscut on main lode has been extended to 23 feet. Nos. 8 and 9 stopes have been extended to 18 feet, No. 2 intermediate extended to 15 feet, and Nos. 6 and 7 stopes on set-off extended to 30 feet. Average width of main lode 5 feet, and set-off 2 feet. A fair amount of first and second-class ore has been won. Have completed tram to connect with North Mt. Farrell Mill.

**Tasmania Smelting Company.**—Mr. H. Harris, manager, reports:—Ore bought during the quarter, 9904 tons, containing—1725·377 tons lead, 230,097·14 ozs. silver, 1019·662 ozs. gold. Exported, 2138·783 tons bullion, containing 2058·139 tons lead, 263,597·51 ozs. silver, 1628·466 ozs. gold.

## NORTH-WESTERN DIVISION.

	Tons.	Value.	Men.
Magnet Mine.....	1905	£14,148	36
Victoria Magnet.....	...	...	5
West Cleveland .....	...	..	3

## NORTHERN AND SOUTHERN DIVISION.

**Round Hill Mine.**—Forty-six tons won, value £450; 12 men employed.

**Devon Mine.**—Six men employed.

## COPPER.

**Mt. Lyell Mine.**—Mr. Robert Sticht, general manager, reports:—The ores and metal-bearing fluxes treated during the quarter ending 30th June, 1909, were as follow:—

Ores and metal bearing fluxes treated at Reduction Works:—

	tons.	Dry weight.		
		cwt.	qrs.	lbs.
Mt. Lyell Mine ore .....	62,926	15	2	25
North Lyell Mine ore .....	32,160	15	0	10
Purchased ore.....	87	16	1	10
	95,175	7	0	17

Metal-bearing fluxes:—

North Lyell Mine.....	71	6	1	23
Total.....	95,246	13	2	12

## Quantity and value of metal produced :—

	£	s.	d.
Blister Copper, 2199 tons, containing —			
Copper, 2173 tons, valued at .....	130,547	6	5
Silver, fine, 179,965 ozs., valued at.....	17,996	10	0
Gold, fine, 2627 ozs., valued at .....	11,164	15	0
Total.....	£159,708	11	5

## Number of men employed :—

At the Company's	Mt. Lyell Mine .....	339	
"	North Lyell Mine.....	489	
"	Lyell Tharsis Mine.....	7	
"	Crotty.....	7	
		—	842
	Reduction Works.....	...	912
Railway Department—	Mt. Lyell Railway .....	133	
"	North Lyell Railway ....	17	
		—	150
Total.....			1904

## Mr. Inspector Curtain reports:—

*Mount Lyell Mining and Railway Company's Group.*

*Mount Lyell Mine.*—At the Iron Blow open-cut extraction of pyrites for smelting and acid-making purposes continues as usual, the chief sources of supply being now from the bottom or lower benches that are below No. IV., which, consequently, necessitates the greater portion being raised by the incline-hoist; that successfully negotiates all requirements. The higher or overburden benches are successively approaching their limit of usefulness, the top, or first three, having already reached that stage, and are now permanently battered. To supplement this mode of exhaustion underground work has been resumed in the Nos. 6 and 7 levels, where preparations for connections with the declension of the incline-hoist and stoping are underway.

*North Lyell Mine.*—The most important work at the 1100-foot level has been the completion of the plats, and the connection between the main and auxiliary shafts, whereby the improved ventilation has permitted the work of prospecting, both in the easterly crosscut and drives north and south from this main connection, to proceed more expeditiously. At the 1000-foot level extractions continue from 23, 24, 26, 30, and 31 stopes, which, with the exception of the first mentioned, are still on the first or ground floor.

850-foot Level.—Nos. 18, 19, 20, 22, and 25 are producing excellent ore, their relative positions being similar to that described in my last report.

700-foot Level.—Nos. ("the sub" intermediates—2) 15, 16, and 17 stopes continue to supply their quota to the general output

of the mine, accompanied by persistent prospecting; which also relates to the work on the 600-foot level, where profitable extractions continue from the No. 12 extension stope.

**500-foot Level.**—Limited, but rich, accretions of high-grade sulphide ore continue to be met with in the "North Contact" drive, that now exceeds some 900 feet from the shaft, following or circumscribing the indicator between the schists and conglomerates upon which course Nos. 27, 28, and 29 stopes have been located.

**400-foot Level.**—No. 21 stope is still producing over this level, and prospecting with the diamond-drill has also been resorted to.

**300-foot Level.**—Excavations for the new winze hoist continue, in addition to which—and that of the 200-foot level—stoping is confined to the balance of the ore remaining in the Lyell Tharsis property.

**Open-cuts.**—The work on these are chiefly for the purpose of obtaining filling for underground depletions, which absorbs extensive quantities daily.

At the Reduction Works the usual routine continues, four furnaces being constantly in blast.

*Mount Lyell Consols Copper Mines.*—Mr. John Carroll reports:—The main shaft has been sunk a further distance of 34 feet, making 90 feet from the No. 7 level. A chamber has been cut and opened at 80 feet, and a crosscut started and driven 33 feet towards the productive (Cu) clays. At No. 7 level the main drive has been driven 26 feet, making a total of 281 feet from the starting point. Crosscuts Nos. 1 and 2 have been driven respectively from this 68 and 34 feet, and penetrated the ore (clay) body. Some alterations have been made to the mill, and its machinery is now being overhauled with a view of an early start being made towards producing marketable copper. Thirty men employed.

*Crown Lyell Mine.*—Mr. William Madden reports:—By the aid of the diamond-drill a vertical section for an extra depth, from the bottom of the shaft, of 354 feet has been obtained, the bore passing through highly favourable impregnations of chalcopryrite. Six men were employed.

*West Mount Lyell, Limited.*—Mr. Thomas Griffiths reports:—The razorback adit has been extended another 50 feet, with two men.

*Mount Lyell Comstock.*—Mr. Charles E. Coote reports:—The low-level adit has been extended 117 feet, intersecting the prospecting bore-hole where yellow copper (chalcopryrite) ore in an appreciable quantity was located. Eight men engaged.

**MTS. JUKES AND DARWIN.**—*Lake Jukes Proprietary.*—Mr. George Hyde reports:—The work done has been devoted to the raising of 15 tons of ore, 5 tons being bagged for transit to the Mount Lyell

Company's smelters at Queenstown, the balance being intended for concentration, from which good gold returns are anticipated. Two men employed.

*Darwin Syndicate P.A.*—Mr. James Souter reports:—One hundred feet has been crosscutted towards the contact, leaving 60 feet more to be driven before their objective is attained. The country passed through is finely banded (laminated) silty schists, that intermittently are well marked with copper ore. Three men employed.

**NORTH DUNDAS DISTRICT.**—The Ring Valley Mining Company obtained 66 tons of copper sulphides, valued at £918. Ten men employed.

#### NORTH-WESTERN DIVISION.

*Murray's Reward.*—Output, 673 tons copper ore, value £8219. Twenty men employed.

*Burnie Copper Mines.*—Output 80 tons. Value £480. Twenty men employed.

#### COAL.

The output this quarter was 16,297 tons, against 13,353·75 tons the previous quarter. The output of the respective collieries was as follows:—

Colliery.	Tons raised.	Men employed.
Cornwall Colliery .....	8675	75
Mt. Nicholas „ .....	5300	65
Spreyton „ .....	474	6
York Plains „ .....	126	2
Mt. Cygnet „ (6 months)	350	4
Wallsend „ .....	133·2	48
Ida Bay „ .....	40	5
<b>Total .....</b>	<b>16,297</b>	<b>205</b>

#### BISMUTH.

*The Shepherd and Murphy Company* obtained 1 ton of bismuth from its tin ore, valued at £400.

#### WOLFRAM.

The output of wolfram during the quarter was as follows:—

	Tons	£	Men.
Ben Lomond Tungsten Mine.....	4	360	2
Shepherd and Murphy Mine.....	5·75	460	...

#### BARYTES.

Mr. Souter reports that several trenches have been cut across the long outcrop of this lode, and they unmistakably disclosed the fact of its length and permanency.

The following return shows the average number of men employed in or about the mines during the quarter ending the 30th June, 1909:—

District.	European.	Chinese.	Total.
Northern and Southern .....	787	...	787
North-Eastern .....	636	85	721
Eastern .....	481	26	507
North-Western .....	540	...	540
Western .....	3551	...	3551
Total .....	5995	111	6106

Value of mineral output per man:—£67 8s. 3½d.

Dividends paid by Mining Companies during the quarter ending 30th June, 1909:—

	£	s.	d.	£	s.	d.
From Copper Mines .....	105,000	0	0	105,000	0	0
From Gold Mines.....	<i>Nil</i>					
From Tin Mines:—						
Bischoff T.M. Co., Registered.....	9000	0	0			
New Brothers' Home No. 1 T.M. Co., N.L.....	1500	0	0			
Purdue Tin Mines, N.L.....	375	0	0			
Montana Tin Prospecting Co. ....	660	0	0			
				11,535	0	0
From Silver Mines .....	<i>Nil</i>					
From Coal Mines.....	906	0	0	906	0	0
Total .....	...			£117,441	0	0