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THE PROGRESS OF  
THE MINERAL INDUSTRY  
OF  
TASMANIA,

FOR THE QUARTER ENDING 31<sup>ST</sup> MARCH, 1908.

COMPILED BY

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BY ORDER OF

THE HONOURABLE D. C. URQUHART,

MINISTER FOR MINES.



Tasmania:

JOHN VAIL, GOVERNMENT PRINTER, HOBART.

1908.



PROGRESS OF THE  
**MINERAL INDUSTRY OF TASMANIA**

FOR THE QUARTER ENDING 31<sup>ST</sup> MARCH, 1908.

Hobart, 11th May, 1908.

The following table shows, as far as can be ascertained, the quantities and values of Metals and Minerals raised during the quarter ending 31st March, 1908, as compared with the previous quarter ending 31st December, 1907:—

	During the Quarter ending 31st March, 1908.		During the Quarter ending 31st Dec., 1907.	
	Quantity.	Value.	Quantity.	Value.
		£		£
* Gold won ..... ozs.	16,739·306	71,104	16,929·527	71,912
Silver-lead Ore produced tons	17,817·71	115,633	21,537·5	144,984
† Blister Copper produced ..	2117	144,956	2184	152,728
Copper Ore and Copper produced..... "	44	684	3·5	960
Tin Ore produced..... "	1045·95	97,940	1291·5	119,766
Iron Ore raised..... "	1000	500	1000	400
Coal raised..... "	14,182	12,055	15,730	13,370
Wolfram Ore produced... "	2·95	186	22·5	1994
Bismuth..... "	'15	30	'075	12
		443,088	...	506,126

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

† Value of gold contents deducted.

## GOLD.

During the past quarter, 7924 ozs. of gold were obtained from quartz, 144.47 ozs. from alluvial, 2251.85 ozs. by means of the cyanide and chlorination processes, 5446 ozs. from blister copper from the Mount Lyell Mining and Railway Company, Limited, and 1075 ozs. from the silver-lead bullion from the Tasmanian Smelting Company's works, Zeehan, valued at £71,104.

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 1907, and the previous quarter ending 31st December, 1907:—

	Gold obtained during the Quarter ending 31st March, 1908.					TOTAL.	Totals corresponding Quarter, 1907.	Totals for Quarter ending 31st Dec., 1907.
	From Quartz.	Alluvial.	Cyanide & chlorination.	From Blister Copper.	From silver-lead Bullion.			
	ozs.	ozs.	ozs.	ozs.	ozs.	ozs.	ozs.	
Beaconsfield	6874	...	1927.45	...	...	8801.45	9148	8021
Mathinna ...	984	...	96	...	...	1080	703.5	2440
Mt. Victoria	} 66	91.97	...	...	...	157.97	101.75	178.75
Warrentinna								
Mt. Cameron								
Lefroy .....	...	...	228.4	...	...	228.4	88	314
Lisle .....	} ...	48	...	...	...	48	28	133
Golconda ...								
West Coast.	...	4.5	...	5446	1075	6525.5	6106	6076
<b>TOTALS</b>	7924	144.47	2251.85	5446	1075	16,841.32	...	...
Totals corresponding Quarter, 1907.....	7301.75	88.75	2634.75	4888	1262	...	16,175.25	...
Totals for Quarter ending 31st Dec., 1907.....	8273	300.75	2522	5403	1023	...	...	17,162.75

Value £71,104; equal to 16,739.306 ozs. fine gold.

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

	Gold produced. ozs.	Men employed.
Tasmania Mine.....	8131	583
Tasmanian Tailings Syndicate...	657	16
Others.....	13·45	28
Total.....	<u>8801·45</u>	<u>627</u>

*Tasmania Mine.*—Eighteen thousand one hundred tons of quartz crushed, and 8131 ozs. gold obtained (by amalgamation and chlorination), which makes a total of 704,835 tons quartz crushed, and 703,289 ozs. gold obtained since the mine was first started.

Mr. C. F. Heathcote, A.M.I.C.E., the general manager, reports:—During the past quarter Grubb's shaft has been sunk a further distance of  $41\frac{1}{2}$  feet; total, 1353 feet. Temporary plungers for second unit are being placed at the 1250-foot level; those for third unit have been connected up at this level and are in use. The cross-cut at the 1250-foot level cut the lode in a distance of 330 feet. The lode-formation, being 25 feet wide, 3 feet of quartz on the hanging-wall, and 6 feet on the foot-wall, gave an assay value of 12 dwts. per ton; the balance of lode being a horse of waste rock. At the North sections, formerly the North Tasmania Mine, prospecting at the 400-foot level is being carried on by driving south on a fault.

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

	Gold produced. ozs.	Men employed.
New Pinafore.....	69·5	10
Creek Cyanide.....	95	16
Wilson's Cyanide.....	33	6
Prospectors and others.....	30·9	34
Totals.....	<u>228·4</u>	<u>66</u>

*New Pinafore Mine.*—Mr. J. T. Stubs, the mining manager, reports:—The prospects generally are somewhat brighter, and hopes are entertained that better times are in store in the very near future. Efforts are being made to induce capitalists to exploit the deep-lead, but being a new departure, progress is slow. Little doubt exists, however, that a large amount of gold lies hidden beneath the basalt.

LISLE, GOLCONDA, &C.—Forty-eight ozs. of gold have been won from these fields. Eighteen men have been employed.

MT. VICTORIA.—Sixty-six ozs. were obtained from quartz by 3 men.

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

	Standard Gold. ozs.
New Brothers' Home.....	4·32
South Mount Cameron .....	10
Ringarooma Dredge .....	20
Dorset Dredge.....	36
Gladstone Dredge.....	21·65
Total .....	<u>91·97</u>

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

	Quartz crushed. tons.	Sand treated. tons.	Gold produced. ozs.	Men.
New Golden Gate .....	439	...	210	50
Tasmanian Consols.....	2558	3000	863	96
Others .....	24	...	7	72
Totals .....	<u>3021</u>	<u>3000</u>	<u>1080</u>	<u>218</u>

WEST COAST.—Mr. Inspector Curtain reports:—A small 4 h.p. oil engine has been seated and housed at the King River Mine for pumping purposes, but beyond this nothing of a practical character has been attempted. Two men were employed. At Mt. Huxley, on the sections held by Mr. Charles Procter, 3 men were engaged in Havill's old workings, but, pending the receipt of a cyanide plant from Victoria, operations have ceased.

*Alluvial.*—Four and a half ozs. have been reported as obtained by 5 men.

## TIN.

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

	Ore won. tons.	Men employed.	
		Europeans.	Chinese
Northern and Southern Division	27·70	30	...
North-Eastern Division.....	669·35	614	42
Eastern Division.....	72·15	224	34
Western Division.....	18·81	70	...
North-Western Division.....	257·94	424	...
Totals.....	<u>1045·95</u>	<u>1362</u>	<u>76</u>

## NORTH-WESTERN DIVISION.

The output has been as under:—

	tons.	Men employed.
Mount Bischoff .....	222	813
Mt. Bischoff Extended .....	24·50	40
Waratah Alluvial .....	3·63	5
Wombat Mine .....	2·50	4
Mount Cleveland .....	...	30
Others .....	2·31	24
Mt. Balfour .....	3	8
Totals .....	<u>257·94</u>	<u>424</u>

*Mt. Bischoff Extended.*—Mr. W. Gullock, manager, reports:—Less tonnage for quarter owing to shortage of water. Mine is opening up at deep level very satisfactorily. New 10-head battery, engine, boiler, and all other machinery landed on the mine and in course of erection. Starting deeper level adit to command an approximate depth of 300 feet below the present workings, length of adit about 1100 feet. A large body of tin-stone now opened up for stoping.

## NORTH-EASTERN DIVISION.

RINGAROOOMA DISTRICT:—

	Tin ore won. tons.	Men employed	
		Europeans.	Chinese.
Pero Flat .....	·55	5	...
Cascade River .....	·05	1	...
Black Creek .....	·25	2	...
Britannia .....	·05	1	...
Mount Maurice .....	·40	5	...
Bell's Plain .....	·25	2	...
Hope Creek .....	·20	1	...
Totals .....	<u>1·75</u>	<u>17</u>	<u>...</u>

PIONEER AND GLADSTONE DISTRICTS:—

	Tin ore won. tons.	Men employed.	
		Europeans.	Chinese.
Pioneer Tin Mine .....	109	90	...
New Aberfoyle .....	2·65	9	...
Argus Tin Mine .....	12·50	20	...
South Mt. Cameron .....	11·50	40	...
Ringarooma Dredge .....	12·55	20	...
Dorset .....	24	24	...
Mussel Roe .....	3·25	6	...
Gladstone Dredge .....	12·8	16	...
White Rock .....	...	8	...
Scotia .....	...	4	...
Purdue Tin Mine .....	33	24	...
Garibaldi .....	2·60	6	8
Miners' Claims .....	8·65	18	26
Totals .....	<u>232·5</u>	<u>280</u>	<u>29</u>

## THE MINERAL INDUSTRY

<i>Mt. Horror Claims.</i>	Tin ore won.	Men employed.	
	Tons.	Europeans.	Chinese.
Wilberforce Pump Co. ....	1.75	4	...
Total.....	1.75	4	...

## DERBY DISTRICT:—

	Tin ore won.	Men employed.	
	tons.	Europeans.	Chinese.
Briseis Tin Mines.....	256.8	94	...
New Brothers' Home, No. 1....	100.4	27	...
Briseis Extended .....	31	40	...
Other Derby Claims .....	4.6	60	13
Total.....	392.8	221	13

## BRANXHOLM DISTRICT:—

	Tin ore won.	Men employed.	
	tons.	Europeans.	Chinese.
Arba Tin Mine'.....	23.15	36	...
New Ruby Flat .....	3	10	...
Total .....	26.15	46	...

## MOORINA DISTRICT:—

	Tin ore won.	Men employed.	
	tons.	Europeans.	Chinese.
Weld Tin Mine .....	3.55	12	...
Native Youth .....	2.25	8	...
Abbotsford .....	2	4	...
Mutual Hill.....	3.2	9	...
Main Creek.....	.8	6	...
Other Moorina Claims .....	.1	1	...
Total.....	11.4	40	...
Mount Stronach Tin Mine ....	3.0	6	...
<i>Total for North-Eastern Division .....</i>	<i>669.35</i>	<i>614</i>	<i>42</i>

## EASTERN DIVISION.

	Tin ore won. tons.	Men employed.	
		Europeans.	Chinese.
<i>Weldborough Mines.</i>			
Fancy Creek Co. ....	2·45	12	...
Weldborough .....	·50	6	...
Cambria .....	1·25	8	...
Bryce Bros. ....	4·95	6	...
Chinese (Weldborough)...	3·65	...	30
Other Claims .....	7·40	23	...
Total .....	20·2	55	30
<i>Lottah and Blue Tier Mines.</i>			
Anchor Mine.....	28·8	85	...
Other Claims .....	6·1	30	...
Chinese Claims .....	·7	...	3
Total .....	35·6	115	3
<i>St. Helens Mines.</i>			
McAuliffe & Party .....	1·2	4	...
A. Williams .....	1·75	5	1
J. C. Macmichael.....	1·50	6	...
Royal Ruby Co. ....	1·75	8	...
C. Miller ..	·60	4	...
J. J. Brook.....	·95	4	...
Deep Lead.....	·40	2	...
F. Budgeon .....	·45	4	...
Others .....	·10	2	...
Total .....	8·7	39	1
<i>Avoca Mines.</i>			
Gipp's Creek.....	3·45	8	...
Togo Co. ....	1·50	4	...
Mount Rex Co.....	1·35	2	...
Others .....	1·35	6	...
Total .....	7·65	15	...
<i>Total for Eastern Division</i>	<i>72·15</i>	<i>224</i>	<i>34</i>

## WESTERN DIVISION.

	Tin ore won. tons.	Men employed.
		Europeans.
Boulder.....	...	10
Dreadnought .....	...	12
Montana Tin Syn. ....	4·61	10
Munro & Co. ....	1	4
York & Co. ..	2·62	7
Emu Bay Railway (various claims) ....	10·58	27
Total .....	18·81	70

*Montana Tin Syndicate.*—Mr. G. D. Cooper, manager, reports:—A good supply of water is now coming on to the section from creeks to the south, which will help to give a regular output. Three pyritic lodes have been cut, carrying tin. Prospects now very good.

NORTHERN AND SOUTHERN DIVISION.

*Shepherd and Murphy Mine.*—27.7 tons tin ore concentrates were raised, and 30 men employed.

SILVER.

WEST COAST.—The registered output of silver ore in the Western Division for the quarter ending 31st March is given below:—

	Ore.	Tons.	Value. £	Men.
<i>Zeehan Mines:</i>				
Mount Zeehan, Tas.	galena .....	1393	19,657	250
Zeehan-Montana	" .....	1051.68	14,674	289
Zeehan-Western	galena, &c .....	159.91	2788	102
"	carbonate of iron...	237.65		
Zeehan-Queen	galena, &c. ....	9	129	11
Silver Queen Extended	" .....	56.50	548	18
Oonah	" .....	503	1268	23
Silver King	galena .....	34	269	6
Florence	" .....	1200	17,700	60
Watts' Section	" .....	60.76	621	6
Austral Valley	" .....	153	954	16
Zeehan Bell	" .....	94.30	744	25
Colonel North	" .....	...	...	19
Section 1064	" .....	63	478	4
Victoria-Zeehan	" .....	5.25	34	10
New Mt. Zeehan	" .....	70	276	7
Tas. Smelting Co., Balstrup	" .....	14	197	12
Sylvester	" .....	38.50	205	4
<i>Dundas Mines:</i>				
Comet	galena & gossan....	1975.70	1714	43
West Comet	fluxing ore .....	2211.35	1171	38
Hercules	{ zinc-lead .....	3970	17,663	92
	{ zinc-ore .....			
Red Lead	" .....	...	...	1
<i>Rosebery Mines:</i>				
Primrose	lead-sulphide .....	608	2311	10
Tasmanian Copper	" .....	2869.86	9799	55
<i>Mt. Farrell Mines:</i>				
Mt. Farrell	galena .....	...	...	14
North Mt. Farrell	" .....	1028	9150	170
Mackintosh Mine	" .....	37	651	6
<i>Sundries:</i>				
Tasmanian Smelting Co. ....	.....	...	...	285
Sundry Companies.....	.....	...	...	62
Prospectors, &c.....	.....	...	...	115
Total .....		15,773.41	100,543	1710

*Mount Zeehan (Tasmania).*—Mr. T. Vincent, manager, reports:—

*Spray Mine.*—No. 1 shaft sunk to 320 feet. No. 2 level, corresponding to No. 5 level in No. 2 shaft workings, will be opened at 380 feet. No. 2 shaft: No. 1 lode is being developed by driving in Nos. 2, 4, 5, and 6 levels. Stopping over Nos. 2, 3, and 5 levels produced usual tonnage of high-grade ore.

*Queen Extended,* No. 2 shaft.—Nothing new discovered during the quarter. Stopping No. 30 lode. No. 2 level payable.

*Balstraps,* No. 5 shaft.—Sunk to 74 feet. No. 1 level will be opened at 145 feet.

*Zeehan-Montana.*—Mr. J. Craze, manager, reports:—No. 1 Shaft.—There is nothing fresh to report here. Active operations are being carried out on Nos. 2, 3, 6, and 8 lodes, at Nos. 1, 4, 5, 6, 7, and 8 levels. No. 2 Shaft.—Operations are being carried out on Nos. 1 and 2 lodes at Nos. 2, 3, and 4 levels. No. 3 Shaft.—Substantial headgear has been erected on the side of the late Crown Company's shaft, and a branch tramline is now being put in preparatory to erecting machinery.

*Zeehan-Western.*—Mr. J. Craze, manager, reports:—We have started to sink the main shaft a further depth of 200 feet below the 800-foot level. The present depth of shaft is 850 feet. Fair progress is being made. There is nothing fresh to report as regards the other parts of the mine.

*Silver Queen Extended.*—Mr. Charles Stevens, manager, reports:—The developments are as follows:—Driving 55 feet, sinking 111 feet, rising 35 feet, stopping 81 feet, trenching 203 feet; total, 485 feet.

*Florence.*—Mr. F. K. Astell, manager, reports:—During the quarter a crosscut has been driven from Currie's lode to Flaherty's, a distance of 300 feet, and a rise put through and connected with workings above, a distance of 90 feet. Stopping is being carried out from this rise; also on Astell's lode and the south lode.

*Hercules.*—Mr. Claude H. Moxon, manager, reports:—Active development work has been carried on in various parts of the mine, generally with gratifying results. A body of sulphide ore has been intersected east of the main workings in the "B" lode, and the north drive in the No. 5 level has proved the existence of the zinc-lead sulphides living down to that depth. The haulage tramway controlling-gear has been overhauled and materially strengthened. Prospecting work is being continued on the

"Jupiter" section. The stopes in all parts of the mine are showing large bodies of ore, and the quantities in sight and available have increased.

*Primrose.*—Mr. G. Barker, manager, reports:—The main work has been driving towards the Tasmanian Copper Company's boundary. The lode is 25 feet wide, carrying ore of fair grade. *Main Adit.*—This is now in a distance of 780 feet. Passed through a bar of very hard country; now in fair working country.

*Tasmanian Copper Company.*—Mr. G. Barker, manager, reports:—No. 2 level is being driven on the lode-formation, composed of carbonates of iron, galena, and zinc-blende. No. 3 level.—Driving north on lode, which is opening up very well, and payable. No. 4 level.—Stoping and timbering up the main level so as to drive north on the large body of ore exposed in the end. No. 6 level.—No. 3 rise is now connected to No. 4 level, and has opened up a big block of ore. Main adit is now in a distance of 780 feet.

*Tasmanian Smelting Company.*—Mr. H. Harris, manager, reports:—Ore bought during the quarter, 11,676 tons, containing—2957 tons lead, 362,046 ozs. silver, 1318 ozs. gold. Exported 2247 tons bullion, containing—304,918 ozs. silver, and 1075 ozs. gold.

#### NORTH-WESTERN DIVISION.

*Magnet Mine.*—Mr. E. A. De Latour, general manager, reports:—1928,31 tons of silver-lead ore were exported, of a gross value of £13,728, and consigned to New South Wales. Two hundred and forty-eight men employed.

*Long Tunnel Mine, Mt. Stewart.*—Twenty-eight tons of silver-lead ore were raised, valued at £382. Six men employed.

*Confidence Mine.*—Two men were employed.

#### NORTHERN AND SOUTHERN DIVISION.

*Devon Mine.*—During the quarter 53 tons galena were raised by 7 men; value, £800.

*Round Hill Mine.*—Thirty-five tons were raised by seven men; value, £180.

## COPPER.

*Mt. Lyell Mine.*—Mr. Robt. Sticht, general manager, reports:—  
The ores and metal-bearing fluxes treated during the quarter ending 31st March were as follow:—

Ores and metal bearing fluxes treated at Reduction Works:—

	tons.	Dry weight.		
		cwt.	qrs.	lbs.
Mt. Lyell Mine ore .....	69,621	2	0	4
North Lyell Mine ore .....	30,377	3	1	1
By-products from Crotty Smelting Works.....	17	8	0	23
Purchased ore.....	95	10	1	23
	<u>100,111</u>	<u>3</u>	<u>3</u>	<u>23</u>

Metal-bearing fluxes:—

North Lyell Mine.....	2066	5	1	24
Lyell Tharsis Mine.....	1125	7	0	14
South Tharsis Mine.....	40	4	3	8
	<u>3231</u>	<u>17</u>	<u>1</u>	<u>18</u>
	<u>103,343</u>	<u>1</u>	<u>1</u>	<u>13</u>

Quantity and value of metal produced:—

Blister Copper, 2117 tons, containing—	£	s.	d.
Copper, fine, 2090 tons, valued at .....	127,009	6	0
Silver, fine, 167,142 ozs., valued at.....	17,946	17	5
Gold, fine, 5446 ozs., valued at .....	23,145	10	0
Total.....	<u>£168,101</u>	<u>13</u>	<u>5</u>

Number of men employed:—

At the Company's Mt. Lyell Mine .....	354
"    "    North Lyell Mine.....	475
"    "    Lyell Tharsis Mine.....	23
	— 852
"    "    Reduction Works.....	... 1106
Railway Department—Mt. Lyell Railway .....	152
"    "    North Lyell Railway ....	19
	— 171
	<u>2129</u>

*Mt. Lyell Mining and Railway Company's Mines:*—Inspector Curtin reports:—Iron Blow: Beyond ordinary routine this mine provides no special matter that requires attention in this report. At the North Lyell, the main and auxiliary shafts have been con-

nected at the 1000-foot level, and a stope opened on the continuation of the ore-body, in addition to which a crosscut is being driven east on the course of the bore-hole which located other portions of the deposit, while the higher levels, in conjunction with the open-cut workings, readily supply the smelters with requirements.

*Lyell Consols.*—Mr. John Carrol, manager, reports that his work is chiefly confined to extending the main drive on the No. 1 level in conglomerate, which, for stability, was selected in preference to softer, though ultimately more expensive, ground. One hundred and sixty feet have been driven, leaving some 90 to 100 feet more before the copper clays are cut into and opened for stoping. During the quarter the main shaft has been equipped with a boiler and winding-gear, and preparations made to resume sinking. Twelve men have been employed.

*Tasman and Crown Lyell Extended.*—Mr. E. Carter, manager, reports:—The westerly extension of the intermediate from Holehan's winze on the sulphide lode has been continued, and driving easterly from the same level has been resumed; also the driving in similar direction from the No. 3 level on the galena veins. Six new huts and manager's residence, including an assay office, have been erected to replace those which were destroyed by bush fires, while a well-graded pack-track, to connect with the Mt. Lyell Company's Queen Valley Railway service, is also in course of construction. Eighteen men were employed.

*Mt. Lyell Comstock Copper Company.*—Mr. George A. Moore, manager, reports:—One hundred and ten feet have been driven, 32 feet risen, 250 feet bored by diamond drill, and 62½ chains of tracks cut and cleared. Fourteen men employed.

At Darwin, the Woods and Thompson Syndicates continue prospecting their respective properties, with 4 men.

#### DUNDAS DISTRICT:—

*Ring Valley Mine.*—Mr. John Moyle, manager, reports:—All mining development is suspended pending the erection of machinery at No. 1 level. A chamber, 30 feet by 30 feet by 28 feet, is now almost ready to receive pit-head gear; also engine and boiler, together with pumping appliances, &c.

#### NORTHERN AND SOUTHERN DIVISION.

*Burnie Copper Mines.*—Output *nil*. Twenty-two men employed.

#### NORTH-WESTERN DIVISION.

At Mt. Balfour 44 tons of sulphide ore were raised, value £684. Men employed, 53.

## WOLFRAM.

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

	tons.	£	Men.
Shepherd and Murphy Mine.....	3	24	...
Claims on Ben Lomond .....	2·65	162	6
Total.....	2·95	186	6

## COAL.

The output this quarter was 14,182 tons, against 15,730 tons the previous quarter. The output of the respective collieries was as follows:—

Colliery.	Tons raised.	Men employed.
Mount Nicholas Colliery .....	8632	90
Cornwall .....	4941	70
Spreyton .....	221	5
Illamatha .....	...	2
York Plains .....	119	3
Sandfly .....	6	2
Woodbridge .....	10	2
Mount Cygnet .....	233	2
Total.....	14,182	176

## IRON.

The Tasmanian Iron Company at Penguin raised 1000 tons of iron ore, with 12 men, valued at £500.

## BISMUTH.

The Shepherd and Murphy Company obtained 3 cwt. of bismuth from its tin ore, valued at £30.

The following return shows the average number of men employed in or about the mines during the quarter ending the 31st March, 1908:—

District.	European.	Chinese.	Total.
Northern and Southern .....	828	...	828
North-Eastern .....	617	42	659
Eastern .....	608	34	642
North-Western .....	678	...	678
Western .....	3967	...	3967
Total .....	6698	76	6774

Value of mineral output per man employed:—£65 8s. 2½d.

Dividends paid by Mining Companies during the quarter ending 31st March, 1908:—

	£	s.	d.	£	s.	d.
From Copper Mines.....		Nil				
From Gold Mines .....		Nil				
From Tin Mines:—						
Bischoff T.M. Co., Registered.....	9000	0	0			
New Brothers' Home No. 1 T.M. Co., N.L.....	3000	0	0			
Briseis Tin Mines, Ltd.....	15,000	0	0			
Weldborough Tin M. Co., N.L.....	125	0	0			
				27,125	0	0
From Silver Mines:—						
Mount Zeehan (Tas.) S.L. Mines, Limited .....	4198	0	0			
Magnet S.M. Co., N.L. ....	2000	0	0			
				6198	0	0
Total .....		...		£33,323	0	0

#### APPENDIX I.

*Statement re Assay of Auriferous Rock at Gell River, by the Government Geologist.*

Mr J. L. Moore, during track-cutting operations on the Great Western Railway survey line this year, reported an occurrence of gold near the 60-mile on that line.

The stone which he brought in with him has been assayed by the Government Analyst (Mr. W. F. Ward), who reports results as follows:—"Traces only of gold were yielded by the bulk of the stone, although minute particles of gold were visible on one face." On my way back Mr. Moore showed me the place where he made the discovery. It is a little south of the hut which he built for the use of prospectors on the east side of the Gell River. The rock in which it occurs is quartzitic schist, which, on its northern and eastern boundary, passes here below conglomerates and sandstone, belonging to the Permo-Carboniferous system, and probably also below concealed Cambrian sandstones.

The hill on the north side of the river opposite the hut shows the Permo-Carboniferous sandstone *in situ*, and also stones of the conglomerate and of diabase.

The hill south of the hut is strewn with stones of Olivine diabase and sandstone, but south-west of this the quartzitic schist crops out in the button-grass on the fall towards the river. This schist is the same as that which we found extending over the ranges as far west as the Prince of Wales Range, and may be classed with the upper division of the Pre-Cambrian, or Algonkian of American authors.

The geological succession would be as follows:—

3. Ordovician: Gordon River limestone.
2. Cambrian: Conglomerate, grits, quartzite, and saccharoidal sandstone.
1. Pre-Cambrian: Quartzitic schist, west of Denison Range.

An exact view of the genesis of the metal cannot at present be formed. The rock is a foliated sedimentary, and no reef or lode-formation has been observed. Certain parts of the stone are more intensely silicified than other parts, and the gold would seem to be more particularly associated with these.

I noticed on the ranges further west numerous examples of extreme silicification in the same class of schist. Laminæ and "blows," or irregular masses of segregated silica, occur nearly everywhere, and markedly on the summits of mountains. With this quartz is associated specular iron ore in flakes. The quartz is milk-white and free from other metal. Pyrite occurs in bands of soft argillaceous schist, but no gold could be panned off. I could find no mineralised eruptive rock in the neighbourhood of these; and with no reefs or reliable indications to guide one, the search for mineral must be a long one. At the same time the slightest sign of anything must be laid hold of and followed up, as an indication of no intrinsic importance in itself may lead to something better. Gold, too, has the habit of furnishing surprises.

A little work on Mr. Moore's discovery will show whether the occurrence of gold here is purely sporadic or whether it is in connection with any formation below where it has been seen at surface. Where there is some gold there is likely to be more, and possibly search at this spot may result in the discovery of something more than at present meets the eye.

The route to the place is either *via* the Iron Store on the overland road (from which it is distant about 21 miles), or *via* Tyenna, a distance of 39 miles.

The pack-track from Tyenna-road can be followed as far as the Gordon for 21½ miles: this is practicable for a horse. At 2 miles a hut exists at the Junee. Seven miles further are two huts (Chrisp's) in the myrtle forest on the east slope of the Humboldt Divide. There is a hut on the south side of the Gordon River, and one on the north side. In dry weather there is a good ford across the river, as well as a cage for crossing when the water is high. The water falls to a depth of a foot only, and rises to 9 or 10 feet.

At 17½ miles north of the Gordon crossing is the Gell hut, and this distance, over button-grass plains, must be traversed on foot. In the Gell hut, inside the door Mr. Moore has put up the distances to the Gordon huts, to the Linda track, to Innes' track. On a board on a tree on the south side of the Gordon the distances are given to Tyenna and to the Gell hut.

At 10 miles north of the Gordon crossing a notice has been left in a wooden box, where Marriott's track branches off to the junction of Franklin and Gordon rivers, giving distances—8 miles to Gell hut in a northerly direction; 10 miles to Gordon huts, direction south; 42 miles to Franklin mouth. The route across the plains has been staked out, so that prospectors will have no difficulty in finding the hut. After they reach this, if they turn south, they will get into the schist country behind the north end of the Denison Mountains, and will be among high, scrubby, and bare ranges of quartzitic schists of savage aspect.

In this wilderness of mountains it would not be surprising if prolonged examination should eventually discover indications which did not come within the area covered by the traverses made by the recent expedition.

This is one of the reasons for recommending a continuation next season of the exploring work which has been started this year.

#### APPENDIX II.

The following analysis of typical granite from Moorina has been made by Miss Eva Dolan, B.Sc., in the laboratory of the University of Tasmania:—

	Per cent.
SiO <sub>2</sub> .....	71·2
{ Al <sub>2</sub> O <sub>3</sub> .....	14·56
{ Fe <sub>2</sub> O <sub>3</sub> .....	2·48
{ FeO .....	2·6
{ Fe <sub>2</sub> O .....	3·09
{ Na <sub>2</sub> O .....	2·2
MnO .....	1·0
MgO .....	·56
H <sub>2</sub> O .....	1·5
	<hr/>
	99·19

With CaO in small quantity.