1879.

VICTORIA.

REPORTS

OF THE

MINING SURVEYORS & REGISTRARS.

QUARTER ENDED 31ST DECEMBER 1878.

PRESENTED TO BOTH HOUSES OF PARLIAMENT BY HIS EXCELLENCY'S COMMAND.

By Authority:
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TABLE SHOWING APPROXIMATELY THE NUMBER OF MINERS EMPLOYED, THE MACHINERY IN USE AND ITS VALUE, ON THE SEVERAL GOLDFIELDS IN THE COLONY OF VICTORIA.

(Compiled from the Mining Surveyors and Registrars' Reports for the Quarter ended 31st December 1878.)

DISTRICT, DIVISION, AND SUBDIVISION.	Alluvial Miners.		Quartz Miners.		Total Number of Miners.	MACHINERY EMPLOYED IN ALLUVIAL MINING.													MACHINERY EMPLOYED IN QUARTZ MINING.								Approximate Value of Mining Plant.	Number of Square Miles of Auriferous Ground actually worked upon.	Number of distinct Quartz Reefs actually proved to be Auriferous.	Price of Gold per ounce.	
						Steam Engines employed in Winding, Pumping, &c.		Steam Puddling Machines.	Buddles.	Horse Puddling Machines.	Whims.	Whips or Pulleys.	Sluices, Toms, and Sluice-boxes.	Hydraulic Hoses.	Pumps.	Water-wheels.	Quicksilver and Compound Cradles.	Stamp-heads (crushing cement).	Boring Machines.	Steam Engines employed in Winding, Pumping, Crushing, &c.		Crushing Machines driven by other power than Steam.	Stamp-heads (crushing quartz or other vein stuff).	Buddles.	Winding, Washing, Pumping, or other Machines moved by Water-power.	Whims.	Whips or Pulleys.	Boring Machines used in Blasting.				From	To
	Europeans.	Chinese.	Europeans.	Chinese.		Number.	Aggregate Horse-power.												Number.	Aggregate Horse-power.											
																												£			£ s. d.	£ s. d.
BALLARAT.																																
Central Division	420	200	1,540	—	2,160	34	1,962	26	1	13	15	14	18	—	19	—	14	—	—	62	1,358	—	439	4	—	28	13	—	119,800	39	24	4 1 9	4 3 0
Southern Division	522	282	155	1	960	2	20	1	—	12	3	10	35	1	5	—	—	—	1	11	196	—	70	—	—	4	2	—	16,500	14	19	4 1 6	4 2 6
Buninyong Division	140	80	296	44	560	9	180	6	—	18	9	1	17	—	6	—	—	—	—	9	200	—	70	1	—	3	1	—	30,000	16½	13	4 0 0	4 2 9
Smythesdale Division	600	795	50	2	1,447	37	880	44	—	14	7	—	23	—	—	—	2	10	—	6	97	—	42	2	—	2	1	—	22,660	18	12	4 0 0	4 2 6
Creswick Division	600	260	890	—	1,750	24	493	23	—	50	14	3	800	—	—	—	—	—	—	34	1,123	1	272	24	—	10	3	1	100,500	13	16	4 0 0	4 2 9
Gordon Subdivision	—	—	407	28	435	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19	496	—	98	—	—	6	—	—	19,084	3½	19	3 17 6	3 18 6
Steightz Subdivision	74	30	100	—	204	—	—	—	—	1	—	2	24	—	—	—	—	—	—	7	125	—	40	—	—	2	3	—	5,100	50	76	3 17 9	4 0 0
Blackwood Division and Blue Mountain South Subdivision	110	255	340	5	710	—	—	—	—	—	—	—	450	—	20	15	—	—	—	25	547	9	275	—	—	16	—	—	63,000	44	31	3 18 0	4 0 0
Ballan Subdivision	16	—	4	—	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	10	—	8	—	—	—	—	—	400	1	3	3 17 6	4 0 0
Totals	2,482	1,902	3,782	80	8,246	106	3,535	100	1	108	48	30	1,367	1	50	15	16	10	1	174	4,152	10	1,314	31	—	71	23	1	377,044	159½	213		
BEECHWORTH.																																
Beechworth Division	768	738	106	—	1,612	19	210	—	—	4	6	3	5,200	3	30	14	—	—	2	7	115	5	75	—	1	5	—	3	37,320	47	105	3 18 0	4 2 6
Yackandandah North Subdivision	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Yackandandah South Subdivision	246	197	110	—	553	2	10	—	—	—	—	—	2,500	3	24	21	—	—	—	5	81	—	45	3	—	2	—	—	9,315	15	90	3 10 9	4 1 6
Indigo Division	159	175	83	—	417	9	249	11	—	6	4	6	39	—	7	—	—	—	1	4	58	—	36	—	—	—	2	—	27,118	8	25	4 1 0	4 2 0
Buckland Division	20	693	214	—	927	—	—	—	—	—	—	—	1,700	—	28	45	—	—	—	8	115	8	124	1	—	—	—	—	13,440	53¼	189	3 18 0	4 1 0
Wandiligong Subdivision	10	30	135	—	175	—	—	—	—	—	—	—	260	—	—	3	—	—	—	9	130	5	125	—	—	—	—	—	16,060	26	158	3 15 0	4 1 6
Alexandra Subdivision	85	15	90	—	190	1	10	—	—	4	5	30	—	—	—	—	—	—	—	9	120	1	100	—	—	5	7	2	12,280	35	74	3 16 0	4 1 6
Dry Creek Subdivision	20	30	14	4	68	—	—	—	—	—	—	—	350	—	—	—	—	—	—	—	—	1	10	—	—	—	—	—	2,000	7½	1	3 15 6	4 0 0
Benalla Subdivision	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10	3	—	—
Gaffney's Creek Subdivision	26	8	82	—	116	—	—	—	—	—	—	—	50	—	5	5	—	—	—	4	64	12	172	1	3	—	—	—	17,580	24	19	3 15 6	4 0 0
Wood's Point Subdivision	78	2	75	—	155	—	—	—	—	—	—	—	190	—	9	9	—	—	—	11	168	10	211	2	—	1	1	—	27,757	18	95	3 15 6	4 1 0
Big River Subdivision	60	2	24	—	86	—	—	—	—	—	—	—	120	—	8	8	—	—	—	6	60	—	47	—	—	—	—	—	5,438	33	14	3 15 6	3 19 6
Mitta Mitta North Subdivision	—	—	180	—	180	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	55	—	28	—	—	—	—	—	19,700	35	19	3 10 0	3 12 6
Mitta Mitta South Subdivision	53	37	—	—	90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	6	—	—	—	—	—	1,500	16	—	3 10 6	3 12 6
Jamieson Subdivision	100	20	200	—	320	—	—	—	—	—	—	—	450	—	—	—	—	—	—	4	47	3	27	—	—	—	—	—	16,000	9	27	3 14 0	3 18 3
Totals	1,625	1,947	1,313	4	4,889	31	469	11	—	14	15	39	10,359	6	111	105	—	—	3	73	1,013	46	1,006	7	4	13	10	5	206,508	407	829		
SANDHURST.																																
Sandhurst Division	920	780	3,765	30	5,495	10	190	—	—	65	—	—	12	—	10	—	1	120	—	210	3,910	—	1,240	3	—	185	190	2	464,000	23	324	3 18 3	3 18 3
Kilmore Division	6	6	16	—	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	14	—	—	—	—	—	—	—	800	29	121	3 15 0	3 17 6
Heathcote Division and Waranga South Subdivision	155	40	390	—	585	—	—	—	—	40	4	10	30	—	50	—	—	—	—	19	374	—	129	—	—	7	20	—	26,392	81	204	3 18 0	4 0 0
Waranga North Subdivision	77	38	130	—	245	—	—	—	—	27	—	—	—	—	—	—	—	—	—	10	190	—	79	—	—	3	12	—	11,120	11	126	3 11 9	4 2 6
Totals	1,158	864	4,301	30	6,353	10	190	—	—	132	4	10	42	—	60	—	1	120	—	240	4,488	—	1,448	3	—	195	222	2	502,312	144	775		
MARYBOROUGH.																																
Maryborough Division	1,580	340	955	—	2,875	35	1,157	32	—	167	34	11	6	—	4	2	38	125	4	27	614	—	209	2	—	30	27	—	136,473	5	168	4 0 0	4 2 9
Majorca Subdivision	92	11	—	—	103	8	188	11	—	7	9	—	11	—	10	—	7	—	—	—	—	—	—	—	—	—	—	—	10,280	2½	1	4 0 0	4 1 6
Amherst Division	208	197	109	—	514	5	60	8	—	27	9	26	35	—	40	2	20	12	—	4	66	—	26	—	—	6	16	—	11,900	5	30	3 14 0	4 2 0
Avoca Subdivision	347	555	8	—	910	1	25	—	—	100	—	—	34	—	17	—	4	—	1	5	88	—	73	—	—	4	4	—	6,259	18½	40	3 19 6	4 2 0
Dunolly and Tarnagulla Divisions	310	210	410	—	930	4	84	—	—	50	10	—	—	—	—	—	2	20	—	30	570	—	174	—	—	26	19	—	59,594	16	185	3 16 0	4 1 6
Inglewood Division	606	400	100	—	1,106	3	90	—	—	1	—	1	4	—	1	—	15	18	—	6	100	—	40	—	—	6	7	—	11,840	17	71	3 17 0	4 1 6
Wedderburn Division	104	23	—	—	127	—	—	—	—	10	2	—	—	—	—	—	—	—	—	1	25	—	10	—	—	1	—	—	695	37	9	3 18 0	3 18 3
Redbank and St. Arnaud South Subdivisions	230	100	55	—	385	—	—	—	—	20	2	1	9	—	—	—	6	—	—	4	65	—	22	—	—	4	4	—	6,088	14¼	28	3 15 6	4 2 0
St. Arnaud North Subdivision	120	40	265	—	425	—	—	—	—	8	—	—	5	—	—	—	—	—	—	19	400	—	134	2	—	17	22	—	44,186	7	70	3 15 0	4 0 0
Totals	3,597	1,876	1,902	—	7,375	56	1,604	51	—	390	66	39	104	—	72	4	92	175	5	96	1,868	—	688	4	—	94	99	—	287,315	122¼	602		
CASTLEMAINE.																																
Castlemaine Division	320	300	338	—	958	1	20	3	—	64	—	—	120	6	5	—	—	—	1	34	588	—	248	4	—	23	28	—	63,950	9½	103	3 17 6	4 0 0
Fryer's Creek Division	740	615	190	—	1,545	4	78	—	—	41	6	15	306	—	25	2	2	24	—	18	479	—	150	4	1	9	15	—	70,527	28¾	37	3 17 6	3 18 6
Hepburn Division	403	300	396	—	1,099	1	26	—	—	15	3	55	90	2	40	3	1	—	1	28	473	—	214	1	3	35	50	—	32,365	82	88	3 18 6	4 1 6
Taradale and Kyneton Subdivision	180	125	105	—	410	3	80	—	—	10	10	1	6	—	—	—	3	—	—	10	250	—	110	—	—	—	2	—	20,000	20	19	3 17 6	3 18 6
Tarrangower Division	59	195	204	—	458	1	4	—	—	14	—	2	—	—	—	—	22	—	—	30	602	—	202	—	—	28	—	—	44,456	4¼	75	3 18 0	4 0 0
St. Andrew's Division	178	46	132	—	356	1	10	2	—	6	7	6	24	6	4	5	—	—	—	10	140	3	46	—	—	6	—	—	7,277	15½	77	3 18 6	4 1 0
Blue Mountain North Subdivision	75	—	—	—	75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	3 16 6	3 17 0
Totals	1,955	1,581	1,365	—	4,901	11	218	5	—	150	26	79	546	14	74	10	28	24	2	130	2,532	3	970	9	4	101	95	—	239,075	164	403		
ARARAT.																																
Ararat Division	110	335	30	—	475	4	35	—	—	11	3	4	30	—	12	—	4	29	—	5	102	—	35	—	—	2	3	—	9,860	34	27	3 18 0	3 18 0
Pleasant Creek Division	512	255	874	3	1,644	10	160	1	1	—	4	—	25	—	—	—	24	70	1	39	1,475	—	346	—	—	48	10	—	157,214	27	37	3 13 0	4 1 0
Barkly Division	275	150	—	—	425	1	10	—	—	12	2	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	865	16	9	3 19 6	4 0 6
Raglan Division	224	125	—	—	349	7	123	2	—	10	9	2	10	—	1	—	—	—	—	1	10	—	8	—	—	1	2	—	11,000	6½	5	4 1 3	4 1 3
Totals	1,121	865	904	3	2,893	22	328	3	1	33	18	6	70	—	13	—	28	99	1	45	1,587	—	389	—	—	51	15	—	178,939	83¼	78		
GIPPSLAND.																																
Omeo Subdivision	180	270	5	—	455	—	—	—	—	—	—	—	1,000	2	22	22	—	—	—	1	20	1	21	—	—	—	—	—	5,000	11	24	3 9 0	3 14 0
Mitchell River and Boggy Creek Subdivisions	168	60	—	—	228	—	—	—	—	—	—	—	20	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	500	23	23	3 7 0	3 19 0
Crooked River Division	160	61	26	—	247	—	—	—	—	—	—	—	240	—	12	10	—	—	—	8	137	4	126	—	—	—	—	—	32,280	49½	350	3 8 0	3 18 6
Jericho Division	60	53	8	—	121	—	—	—	—	—	—	—	90	—	20	20	—	—	—	3	35	—	37	1	—	—	—	—	4,300	26	33	3 15 0	3 17 6
Donnelly's Creek Division	60	5	58	—	76	1	10	—	—	—	1	—	30	—	—	—	—	—	—	3	58	3	62	—	—	—	—	—	12,235	6½	18	3 10 0	3 19 0
Stringer's Creek Division	13	5	58	—	76	1	10	—	—	—	1	—	30	—	—	—	—	—	—	3	58	3	62	—	—	—	—	—	12,235	6½	18	3 10 0	3 19 0
Aberfeldy Subdivision	163	—	271	—	434	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17	355	1	126	2	—	—	—	—	46,430	7	13	3 10 0	4 0 0
Russell's Creek Division	77	13	72	—	162	—	—	—	—	—	—	—	164	—	12	12	—	—	—	4	65	1	35	—	—	—	—	—	10,000	20	6	3 15 0	3 17 6
Bendoc Subdivision	100	—	4	—	104	—	—	—	—	2	1	—	12	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	26	35	16	3 10 0	3 18 0
Tarwin Subdivision	34	16	—	—	50	—	—	—	—	—	—	—	42	—	4	4	—	—	—	—	—	1	9	—	—	—	—	—	340	27	13	3 12 0	3 16 0
Traralgon Subdivision	47	—	4	—	51	3	27	1	—	2	8	6	4	—	1	—	10	2	2	2	20	1	11	—	—	—	—	—	1,110	3	4	3 16 0	3 17 0
	43	8	—	—	51	—	—	—	—	—	—	—	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	80	2	2	3 16 0	3 19 6
Totals	1,045	486	448	—	1,979	4	37	1	—	4	10	6	1,618	2	71	70	—	10	2	38	690	12	427	3	—	2	—	—	112,301	210	562		
GRAND TOTALS	12,983	9,521	14,015	117	36,636	240	6,381	171	2	831	187	209	14,606	23	451	204	165	438	14	796	16,330	71	6,242	57	8	527	464	8	1,903,494	1,290	3,402		

THOS. COUCHMAN,
Secretary for Mines.

Office of Mines, Melbourne, 18th January 1879.

No. 3.

TABLE

SHOWING THE YIELD OF GOLD FROM CERTAIN PARCELS OF QUARTZ RAISED DURING THE QUARTER IN SOME OF THE DEEPEST MINES IN VICTORIA, WITH THE DEPTH OF THE DEEPEST SHAFTS WHICH ARE NOW BEING SUNK, OR THE SINKING OF WHICH HAS RECENTLY BEEN STOPPED, ETC.

(Compiled from Returns made by the Mining Surveyors and Registrars for the Quarter ended 31st December 1878.)

DISTRICT, DIVISION, AND SUBDIVISION.	NAME OF COMPANY.	NAME OF REEF.	Depth at which the Quartz was got.	Quantity Crushed.	Average Yield of Gold per Ton.	Width of the Reef.	Dip of the Reef from the Horizon.	Dip of the Shoot of Quartz.	Strike of the Reef (Bearing).	NAME OF COMPANY.	NAME OF REEF.	Depth of Shaft.	Depth of the deepest Level.	Depth of the deepest Cross-cut.	REMARKS.
BALLARAT.			Feet.	Tons.	Oz. dwt. gr.	Ft. in.						Feet.	Feet.	Feet.	
Central Division	New Kohinoor	Burra Burra	500	390	0 5 4	1 2	70°	N.	S. 6° W.	Black Hill	Eastern and Western States and Indicator	600	600	600	Have struck payable stone from their cross-cuts.
Southern Division	New Kangaroo	Kangaroo	218	1,560	0 3 23	*7 0	W. 70°	S.	N. 7° W.	Hopewell	Staffordshire	522	500	500	* A well-defined lode.
Buninyong Division	Imperial	Hiscock's	200 to 340	1,594	0 2 23	8 to 17 0	W. 64°	Varies	N. 5° W.	Imperial	Hiscock's	406	400	400	
Smythesdale Division															
Creswick Division	Port Phillip	Clunes	150 to 1,090	14,282	0 6 10*	2 to 30 0	4 reefs E. 30° 2 reefs W. 30°	N.	W. 15°	Port Phillip	Clunes	1,100	1,090	1,090	* Including pyrites.
	New North Clunes	Clunes	200 to 1,005	2,590	0 13 9*	2 to 7 0	W. 15°	N.	N. 8° E.	New North Clunes	Clunes	1,114	1,105	1,105	* Including pyrites.
Gordon Subdivision										Black Horse United	Big Hill, Egerton	880	826	826	
Steiglitz Subdivision										Parker's United	Parker's United, Gordon	635	630	630	
Blackwood Division and Blue Mountain South Subdivision	Sultan	Sultan and others	270 to 700	1,889	0 18 13*	3 in. to 6 ft.	Varies	Varies	N. 11° W.	Sultan	Sultan and others	814	800	800	* Including pyrites.
Ballan Subdivision															
BEECHWORTH.															
Beechworth Division	Homeward-bound	Homeward-bound, Rocky Point	600	160	0 6 12	3 0	S. 2ft. in 6ft.	N.	N.	Dale and Co.	Excelsior, Wooragee	310	180	310	
Yackandandah North Subdivision															
Yackandandah South Subdivision	Bigelowe and Clingan	Homeward-bound, Hillsborough	200	308	0 5 0	8 0	W. 80°	Vertical	N. 10° E.	Bigelowe and Clingan	Homeward-bound	450	420		
Indigo Division	Harris and Hollow	Great Eastern	115	141	1 11 2	1 6	W. 84°	N.W. 60°	Variable	Magenta	Magenta	320	220	220	
Buckland Division	Davis and Co.	Tiddle-dee-addle-dee	260	70	3 8 0	2 0			N. 60° W.						
	J. A. Wallace	Shamrock	370	800	1 1 9										
Wandiligong Subdivision	Myrtle	Myrtle	240	887	0 6 12	4 0									
Alexandra Subdivision															
Dry Creek Subdivision															
Benalla Subdivision															
Gaffney's Creek Subdivision	Golden Belt	Homeward-bound	300	260	0 4 2	4 to 5 0	S.W. 82°	S.W. 82°	N. 38° W.						
Wood's Point Subdivision	Lady Franklin	Johnson's	200	250	0 5 20	30 to 40 0*	S.W. 85°	S.W. 80°	N. 52° W.						* The reef is a granitoid lode, tapering in width from 80 feet to 40 feet.
Big River Subdivision	Londonderry	Railway Reef	300	270	0 4 16	2 0	Vertical	Vertical	N. 24° W.						
Mitta Mitta North Subdivision	John Connoy's	Bethanga	70	350	1 18 11	1 10			N. and S.						
Mitta Mitta South Subdivision															
Jamieson Subdivision	Gleeson's Lease Tribute	Sailor Bill's	380	140	0 12 13	3 6	E. 140°								
	Sailor Bill's Tribute	Sailor Bill's	400	120	0 6 17	8 0	E.								
SANDHURST.	Garden Gully United	Garden Gully	600 to 745	3,813	1 5 22	1 to 6 0				Geo. Lansell's No. 180	Victoria	1,458	1,300	1,386	Sinking.
	Victory		750	664	0 10 20	1 to 3 0				Great Extended Hustler's	Hustler's	1,350	800	1,350	Not sinking.
Sandhurst Division	New Chum and Victoria	New Chum	Sface. to 1,100	4,524	0 15 1	Various				Victoria Reef Q.M.	Victoria	1,315	1,315	1,315	
	Lazarus	New Chum	Sface. to 900	2,491	0 15 10	6 in. to 40 ft.				Great Extended Hustler's Reef Tribute	Hustler's	1,226	1,200	1,200	
	Lazarus No. 1	New Chum	Sface. to 900	591	0 14 7	2 in. to 45 ft.				Hercules and Energetic	Victoria	1,218	1,200	1,200	
	North Old Chum	New Chum	400 to 1,180	608	2 2 20	2 to 6 0				Carlisle, North Garden Gully, and Passby	Garden Gully	1,191	854	1,024	
										North Old Chum	New Chum	1,190	1,180	1,180	
Kilmore Division															
Heathcote Division and Waranga South Subdivision	The Alabama and Butler's Reef	Butler's	320 to 386	1,250	2 10 0	0 9	E. 55° W.		N. 56° W.						
	Alison	Alison	210 to 265	200	0 10 0	0 5	W. variable		N. 20° W.						
Waranga North Subdivision															
MARYBOROUGH.															
Maryborough Division	Bristol Hill	Western	500 to 530	1,150	0 9 7	3 in. to 3 ft.	W. 25°		S. 16° E.	Bristol Hill	Western	509	500	500	
Majorca Subdivision															
Amherst Division										Perseverance	Prince of Wales	236	225	225	
Avoca Subdivision															
Dunolly and Tarnagulla Divisions	Queen's Birthday	Bealiba	300 to 400	4,143	1 3 18	6 to 20 0	W. 40°	S.	N. 16° W.						
	Sydenham	Sydenham	200	15	0 17 12	2 0									
Inglewood Division	Fone's Tribute	Lilliputian	686	1,040	0 5 0	5 0									
Wedderburn Division															
Redbank Subdivision															
St. Arnaud North Subdivision															
St. Arnaud South Subdivision															
CASTLEMAINE.															
Castlemaine Division	Wattle Gully	Wattle Gully	450	129	0 12 12	4 0	W. 76°	N. 30°	N. 2° W.	Wattle Gully	Wattle Gully	470	450	450	
Fryer's Creek Division	Ferron's	Ferron's	380	5,477	0 3 14	10 6	W. 50°	N. 1 in 8	N. 5° E.	Ferron's	Ferron's	443	430	430	
	Rowe Bros.	Cattle's	175	1,508	0 8 22	5 0	E. 36°		N. 14° W.	Rowe Bros.	Cattle's	210	175	175	
Hepburn Division	Ajax	Nuggety	250	470	0 5 2	4 0	W. 50°	S. 33°	N. 12° W.						
	Cornish	Collins'	200	941	0 3 13	6 0	W. 50°	S. 40°	N. 18° W.						
Taradale and Kyneton Subdivision	United Kingdom	United Kingdom	160	1,069	0 2 18	10 0*									* Flat reef.
	Comet	Achilles	320	50	0 2 5	1 6									
Tarrangower Division	Linscott's Tribute	Linscott's	550	108	1 1 16	10 0	W. 80°	S.	N. 20° W.	Eaglehawk Union	Eaglehawk	1,020		1,000	
	North British	Parkins'	400	436	0 13 20	12 0	W. 80°	Vertical	N. 13° W.						
St. Andrew's Division															
Blue Mountain North Subdivision															
ARARAT.															
Ararat Division															
										Magdala		2,032			Still sinking.
										Newington & Pleasant Ck.		1,940	1,510	1,220	
										Prince Patrick			1,500	1,500	
										Prince Alfred		1,280	1,026	1,026	Still sinking.
										South Scotchman's		1,262	1,252	1,252	
Pleasant Creek Division	Oriental	Scotchman's Flat	1,060 to 1,120	1,000	2 10 0					Crown Cross United		1,222	1,000	1,000	Still sinking.
										Pleasant Creek Cross Reef, No. 1 shaft		1,220	1,200	1,200	
										Oriental		1,200			Erecting machinery for further sinking.
										Extended Cross Reef		1,117	1,070	1,070	
Barkly Division															
Raglan Division															
GIPPSLAND.															
Omeo Subdivision															
Mitchell River & Boggy Ck. Subdivisions															
Crooked River Division	Good Hope	Good Hope	520	50	0 16 4	1 0	W. 70°	N.W. 7°	N.W.	Good Hope	Good Hope	700	500	700	
Jericho Division															
Donnelly's Creek Division															
Stringer's Creek Division	Long Tunnel	Cohen's	348 to 623*	6,178	1 9 18	12 0	W. 80°	N. 30°	N.W. 19°	Long Tunnel	Cohen's	735	723	723	* Below adit level.
										Walhalla	Cohen's	615	585	585	
Aberfeldy Subdivision															
Russell's Creek Division															
Bendoc Subdivision															
Tarwin Subdivision															
Traralgon Subdivision															

Office of Mines, Melbourne, 18th January 1879.

No. 3.

THOS. COUCHMAN,
Secretary for Mines.

ESTIMATED YIELD OF GOLD AND QUANTITY OF GOLD EXPORTED.

'ROM information obtained by the Mining Surveyors and Mining Registrars from Gold Buyers and others the TOTAL QUANTITIES OF GOLD got respectively from ALLUVIUMS and QUARTZ REEFS are as follow:—

	Alluvial.		Quartz.		Total.	
	oz.	dwt.	oz.	dwt.	oz.	dwt.
Quarter ended 31st December 1878	71,875	13	135,182	7	207,058	0

'HE QUANTITY OF GOLD, the produce of this Colony, EXPORTED, according to Returns furnished by order of the Honorable the Commissioner of Trade and Customs, is as follows:—

	oz.	dwt.
Quarter ended 31st December 1878	93,400	19

NOTE.—In addition to the above, gold specie from all sources was exported to the value of £888,384.

GOLD RECEIVED AT AND ISSUED FROM THE ROYAL MINT.

'TATEMENT of the Gross Weight of GOLD received at and issued from the Melbourne Branch of the ROYAL MINT during the Quarter ended 31st December 1878.

RECEIVED.		ISSUED.	
Gross Weight of Rough Gold.	Gross Weight of Gold Bullion.	Gross Weight of Coin.	Gross Weight of Gold Bullion.
oz.	oz.	oz.	oz.
19,542·32	167,049·16	176,697·49	635·459

Royal Mint,
Melbourne, 6th January 1879.

V. DELVES BROUGHTON,
Deputy Master

'TATEMENT of VICTORIAN GOLD received at the Melbourne Branch of the ROYAL MINT during the Quarter ended 31st December 1878.

Gross Weight of Rough Gold.	Gross Weight of Gold Bullion.
oz.	oz.
6,763·49	138,621·48

NOTE.—The Mint has no evidence beyond the statement of the depositors that the above is Victorian gold.

Royal Mint,
Melbourne, 6th January 1879.

V. DELVES BROUGHTON,
Deputy Master.

QUARTZ, QUARTZ TAILINGS, PYRITES, ETC.

SUMMARY.

THE following information has been obtained relative to the QUANTITY OF QUARTZ, QUARTZ TAILIN and MULLOCK Crushed, and PYRITES and BLANKETINGS operated on, during the Quarter, and GOLD obtained therefrom :—

MINING DISTRICTS.	Quantity Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold f Quartz, &c., Crush
Quartz.	tons cwt. qr.	oz. dwt. gr.	oz. dwt.
Ballarat	89,435 0 0	0 7 6·98	32,602 12
Beechworth	18,395 13 0	0 10 1·78	9,265 19
Sandhurst	63,767 0 0	0 10 17·85	34,255 9
Maryborough	9,796 0 0	0 14 18·10	7,228 14
Castlemaine	20,503 0 0	0 5 21·47	6,043 0
Ararat	19,878 0 0	0 13 15·83	13,576 8
Gippsland	8,001 0 0	1 6 13·05	10,618 18
Totals	229,775 13 0	0 9 21·28	113,591 2
Quartz Tailings and Mullock.			
Ballarat	5,057 0 0	0 1 13·08	390 14
Beechworth	678 15 0	0 2 16·25	90 17
Sandhurst	1,527 0 0	0 0 21·30	67 15
Maryborough	952 0 0	0 4 8·38	207 0
Castlemaine	2,395 0 0	0 0 16·64	83 0
Ararat	15 0 0	0 5 5	3 18
Gippsland	515 0 0	0 5 14·63	144 9
Totals	11,139 15 0	0 1 18·56	987 14
Pyrites and Blanketings operated on.			
Ballarat	443 3 0	2 11 17·26	1,145 19
Beechworth	184 0 0	1 7 13·17	253 9
Sandhurst	672 0 0	2 13 23·55	1,813 15
Maryborough	...	...	...
Castlemaine	234 10 0	1 9 9·67	344 15
Ararat	...	...	...
Gippsland	65 15 0	2 10 18·83	167 1
Totals	1,599 8 0	2 6 13·92	3,724 19

NOTE.—This Summary does not show the total quantities of quartz, &c., crushed or operated on, but only the yield of certain crushings, respecting which the Mining Surveyors and Registrars have been able to obtain information. Owing to the circumstance that many of the mach owners are unable to give, or are precluded from giving, information, it is impossible to get complete returns from every district; and in conside the relative importance of each district, as regards quartz mining, &c., the tables relating to machinery should be examined and compared.

Office of Mines,
Melbourne 18th January 1879.

THOS. COUCHMAN,
Secretary for Mines

MINING SURVEYORS AND REGISTRARS' RETURNS.

QUARTZ.

THE following information has been obtained from Returns made by the Mining Surveyors and Registrars relative to the QUANTITY OF QUARTZ Crushed in the several Divisions and Subdivisions of each Mining District during the Quarter, and the GOLD obtained therefrom.

Division and Subdivision, and Name of Company.	Where Quartz was obtained.	Quartz Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Quartz was obtained, &c.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
BALLARAT MINING DISTRICT.					
CENTRAL DIVISION.					
Black Hill	Black Hill	2,413 0 0	0 6 9·54	771 17 11	
Temperance	Little Bendigo ...	1,500 0 0	0 6 18·10	506 11 18	
Duchess...	off Melbourne road ...	706 0 0	0 9 17·54	343 10 0	
Parade	off Melbourne road ...	1,120 0 0	0 16 17·01	935 13 22	
Guiding Star	Sebastopol	582 0 0	0 8 20·90	258 3 0	
Britannia	Specimen Gully ...	515 0 0	0 6 10·56	165 16 15	
Llanberris	Gum-tree Flat ...	1,663 0 0	0 1 23·93	166 2 6	
Grand Duke	Melbourne road ...	233 0 0	0 5 17·44	66 14 9	
Countess	Melbourne road ...	350 0 0	0 4 19·23	84 0 12	
Hanthorn and Co. ...	Mount Clear	100 0 0	0 5 0	25 0 0	
United Black Hill ...	Black Hill Flat ...	167 0 0	0 5 14·86	46 18 10	
Baker and Co.	Mount Clear	3,000 0 0	0 18 0	2,700 0 0	
North Dimock's Reef ...	Little Bendigo ...	762 0 0	0 3 1·70	117 0 0	
New Dimock's Reef ...	Little Bendigo ...	2,300 0 0	0 3 11·06	398 0 0	
City of York	Little Bendigo ...	1,460 0 0	0 4 12	328 0 0	
New Koh-i-noor	Ballarat West ...	390 0 0	0 5 4·55	101 4 0	
Endeavor	Specimen Gully ...	755 0 0	0 5 13·35	209 15 6	
Public crushings	Ballarat East	7,988 0 0	0 9 5·20	3,681 3 21	
	Totals... ...	26,004 0 0	0 8 9·30	10,905 11 10	
SOUTHERN DIVISION.					
Speedwell Tribute ...	Staffordshire Reef ...	790 0 0	0 1 13·88	62 6 22	Surface to 60 feet, 4 feet wide
Hopewell	Staffordshire Reef ...	678 0 0	0 1 9·38	47 3 0	Surface blocks
New Kangaroo	Kangaroo	1,560 0 0	0 3 23·04	308 18 4	218 feet, 7 feet wide
Williams' Fancy... ...	Kangaroo	1,350 0 0	0 3 6·65	221 4 12	130 feet, 8 feet wide
Nil Desperandum ...	Kangaroo	936 0 0	0 3 15·16	169 19 9	120 feet, 10 feet wide
New Try Again	Kangaroo	230 0 0	0 1 2·08	12 10 0	180 feet, 3 feet wide
	Totals	5,544 0 0	0 2 23·17	822 1 23	
BUNINYONG DIVISION.					
Imperial	Hiscock's Reef ...	1,594 0 0	0 2 23·30	236 15 20	260 to 340 feet
Public crushings ...	Hiscock's Reef ...	190 0 0	0 8 3·76	77 9 20	50 feet
One-and-All	Hiscock's Reef ...	1,890 0 0	0 1 23·75	188 1 0	140 to 200 feet
Public crushings ...	Hiscock's Reef ...	828 0 0	0 5 20·98	243 3 21	50 feet
Llewellyn	Magpie Ranges ...	1,020 0 0	0 3 2·03	157 6 10	160 feet
Public crushings ...	Magpie Ranges ...	132 0 0	0 5 7·84	35 3 3	Various
New Homeward-bound ...	Homeward-bound reef ...	112 0 0	0 5 0	28 0 0	150 feet
	Totals	5,766 0 0	0 3 8·41	966 0 2	
SMYTHESDALE DIVISION.					
Smythesdale Consols ...	German Reef, Smythesdale	2,241 0 0	0 2 7·40	258 11 20	200 feet
Brothers	Browns	720 0 0	0 0 23·57	35 7 6	50 feet
Stephens and Co. ...	Carngham	118 0 0	0 15 20·54	93 11 0	105 feet
Hill and party	Carngham	50 0 0	0 2 22·56	7 7 0	40 feet
McKay and party ...	Carngham	40 0 0	0 3 10·50	6 17 12	50 feet
	Totals	3,169 0 0	0 2 12·84	401 14 14	
CRESWICK DIVISION.					
Port Phillip	Clunes reefs	2,300 0 0	0 4 12·12	518 2 0	690 to 1,090 feet
Port Phillip Tributers ...	Clunes reefs	11,982 0 0	0 5 23·19	3,574 11 0	150 to 990 feet
New North Clunes ...	Clunes reefs	527 0 0	0 10 16·90	282 1 6	200 to 1,005 feet
New North Clunes Tributers	Clunes reefs	2,063 0 0	0 12 23·19	1,337 10 0	200 to 1,005 feet
South Clunes	Clunes reefs	4,339 0 0	0 4 13·88	993 6 0	Surface to 580 feet
South Clunes Tributers ...	Clunes reefs	6,302 0 0	0 6 4·05	1,943 15 18	Surface to 580 feet
New Lothair	Clunes reefs	1,204 0 0	0 6 0·53	362 11 15	364 to 564 feet
Dawe and party ...	Clunes reefs	332 0 0	0 2 11·06	40 17 0	220 feet
Working Miners ...	George's Reef... ...	550 0 0	0 4 4·52	115 3 16	50 feet
	Totals	29,599 0 0	0 6 4·67	9,167 18 7	

QUANTITY of QUARTZ Crushed in each Division and Subdivision during the Quarter, &c.—*continued.*

Division and Subdivision, and Name of Company.	Where Quartz was obtained.	Quartz Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Quartz was obtained, &c.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
GORDON SUBDIVISION.					
Black-horse United ...	Egerton	3,600 0 0	0 16 2·66	2,900 0 0	500 to 700 feet
The Egerton	Egerton	8,718 0 0	0 8 9·40	3,658 9 0	450 to 760 feet
Parker's United	Gordon	2,203 0 0	0 8 22·50	984 8 0	590 to 635 feet
Rose and Shamrock ...	Moorabool	35 0 0	0 7 4·80	12 12 0	60 to 100 feet
	Totals	14,556 0 0	0 10 9·15	7,555 9 0	
STEIGLITZ SUBDIVISION.					
Nimrod	Steiglitz	4 0 0	2 10 12	10 2 0	
Scott and party	Steiglitz	22 0 0	2 1 6·55	45 8 0	
Boardman and party ...	Steiglitz	22 10 0	1 2 5·33	25 0 0	
Dennis and party ...	Steiglitz	11 0 0	3 14 13·09	41 0 0	
Fielding and party ...	Steiglitz	7 10 0	1 10 18·66	11 10 20	
Baldy and party	Elaine	7 0 0	1 9 20·57	10 9 0	
Mortimer and Sons ...	Elaine	20 0 0	2 11 14·40	51 12 0	
Hoelcher and party ...	Elaine	23 0 0	3 16 20·87	88 8 0	
McMurty and party ...	Elaine	30 0 0	1 16 16·80	55 1 0	
Davidson's party... ...	Mount Doran	160 0 0	1 3 9	187 0 0	
Davidson's party... ...	Mount Doran	37 0 0	0 7 0·65	13 0 0	
	Totals	344 0 0	1 11 7·45	538 10 20	
BLACKWOOD DIVISION AND BLUE MOUNTAIN SOUTH SUBDIVISION.					
Sultan	Barry's Reef	1,889 0 0	0 18 13·58	1,753 11 0	270 to 700 feet
Sultan Tributers... ...	Barry's Reef	22 0 0	0 4 7·09	4 14 12	70 feet
Mounter Bros.	Barry's Reef	20 0 0	0 12 12·60	12 10 12	440 feet
Mounter Bros. Tributers No. 1	Barry's Reef	62 0 0	0 7 2·81	22 1 6	440 feet
Mounter Bros. Tributers No. 2	Barry's Reef	62 0 0	0 2 12·77	7 17 0	440 feet
Mounter Bros. Tributers No. 3	Barry's Reef	12 0 0	1 7 2	16 5 0	440 feet
North Britain	Wright's Reef ...	70 0 0	0 6 5·83	21 17 0	95 feet
Victoria Extended ...	Yankee Reef	103 0 0	0 11 3·03	57 6 0	130 feet
North Star	Union Reef	47 0 0	1 19 4·60	92 2 0	70 to 85 feet
Pincombe and party ...	Johnson's Reef ...	16 0 0	0 3 13·50	2 17 0	Surface
Crown	Simmons' Reef ...	1,200 0 0	0 2 4·40	131 0 0	140 feet
Big Hill	Simmons' Reef ...	850 0 0	0 2 14·82	111 4 20	70 feet
Cornish	Simmons' Reef ...	100 0 0	0 2 9·60	12 0 0	120 feet
	Totals	4,453 0 0	0 10 2·03	2,245 6 2	

BEECHWORTH MINING DISTRICT.

BEECHWORTH DIVISION.					
Paul Bros. and Co. ...	Buffalo	21 0 0	1 1 0	22 1 0	40 feet
Homeward-bound ...	Rocky Point	160 0 0	0 6 12	52 0 0	600 feet
Wallaby	Hurdle Flat	250 0 0	0 16 19·58	210 4 0	90 feet
Marco Polo	Hurdle Flat	40 0 0	0 7 0	14 0 0	Surface
Reform	Myrtleford	1,880 0 0	0 11 4·95	*1,053 8 0	260 feet
W. Matthews	Buffalo	31 0 0	0 18 0	27 18 0	30 feet
R. Matthews	Buffalo	10 0 0	0 7 12	3 15 0	Surface
Triffit and Co.	Myrtleford	16 0 0	0 6 0	4 16 0	Surface
	Totals	2,408 0 0	0 11 12·69	1,388 2 0	
YACKANDANDAH SOUTH SUBDIVISION.	*Hillsborough.*				
Bigelowe and Clingan ...	Homeward-bound Reef...	308 0 0	0 5 0	77 0 0	200 feet
Kelly and Co.	Hillsborough	45 0 0	0 10 21·33	24 10 0	Surface
Schackenburg and Co. ...	Sandy Creek	13 0 0	4 4 0	54 12 0	20 feet
Alexander Crowe ...	Sandy Creek	15 0 0	0 5 0	3 15 0	40 feet
John Briggs	Sandy Creek	10 0 0	0 5 0	2 10 0	Surface
Granite Dyke Reef ...	Sandy Creek	71 0 0	0 1 6·08	4 9 0	40 feet
Davies and Co.	Sandy Creek	62 0 0	0 3 5·42	10 0 0	Surface
Bray and Co.	Fell Timber Creek ...	122 0 0	0 3 0	18 6 0	Surface
Lonigan and Co.	Fell Timber Creek ...	32 0 0	0 10 0	16 0 0	Surface
Liston and Co.	Fell Timber Creek ...	8 0 0	0 12 3	4 17 0	Surface
Trudewind and Co. ...	Fell Timber Creek ...	60 0 0	0 10 0	30 0 0	Surface
	Totals	746 0 0	0 6 14·25	245 19 0	

* Six months' return.

QUANTITY of QUARTZ Crushed in each Division and Subdivision during the Quarter, &c.—*continued.*

Division and Subdivision, and Name of Company.	Where Quartz was obtained.	Quartz Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Quartz was obtained, &c.
INDIGO DIVISION.		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
Harris and Hollow ...	Great Eastern Reef ...	141 0 0	1 11 2·89	219 8 0	115 feet
Hooly and Co.	Garibaldi Reef ...	39 0 0	1 13 23·38	66 5 0	100 feet
Goldsworthy and Co. ...	Campbell's Reef ...	9 0 0	1 16 10·66	16 8 0	100 to 120 feet
Campbell and Co. ...	Lanarkshire Reef ...	12 0 0	2 3 18	26 5 0	80 to 100 feet
Eustace and Co.	Skeleton Reef... ...	23 0 0	1 17 9·39	43 0 0	60 to 80 feet
Barrass and Co.	Caledonian Reef ...	77 0 0	2 11 10·28	198 0 0	90 feet
Withers and Co.	Gem Reef	6 0 0	3 0 20	18 5 0	40 feet
Buchan and Co.	Pass-by Reef	6 10 0	4 6 22·15	28 5 0	150 feet
Williams and Co. ...	Devonshire Reef ...	18 0 0	1 5 20	23 5 0	80 feet
Pomeroy and Co.... ...	Welcome Reef ...	18 0 0	1 8 21·33	26 0 0	140 feet
Caslogie and Co.	Twelve Apostles Reef ...	12 0 0	1 5 6	15 3 0	60 to 70 feet
Bigby and Co.	Will-if-I-can Reef ..	11 0 0	4 3 4·36	45 15 0	Surface to 50 feet
Various companies ...	Trial crushings ...	102 0 0	0 12 10·82	63 10 0	
Miller and Co.	Prince Albert Reef ...	11 0 0	2 0 0	22 0 0	80 to 120 feet
Various companies ...	Trial crushings ...	500 0 0	0 10 0	250 0 0	Surface to 150 feet
	Totals	985 10 0	1 1 12·98	1,061 9 0	
BUCKLAND DIVISION.	*Buckland.*				
	Nelson Reef	20 0 0	0 4 12	4 10 0	Surface
	Old Eureka	15 0 0	0 15 8	11 10 0	Surface
	King of the Ring ...	13 0 0	3 9 5·54	45 0 0	Surface
	Eureka	40 0 0	1 10 0	60 0 0	50 feet
Brogan and Co.	Hibernia	26 0 0	0 16 22·15	22 0 0	Surface
Polluski and Co.... ...	... ...	54 0 0	2 1 16	112 10 0	Surface
	King of the Ring ...	12 0 0	0 15 0	9 0 0	Surface
Anderson and Co. ...	... ...	7 10 0	1 8 6·40	10 12 0	Surface
King and Co.	... ...	7 10 0	3 4 0	24 0 0	40 feet
Monaghan	... ...	2 10 0	1 0 19·20	2 12 0	Surface
Radcliffe and Co.... ...	Unicorn	30 0 0	1 7 8	41 0 0	40 feet
Grant and Co.	... ...	3 10 0	1 6 16	4 0 0	Surface
Shippen and Co.	... ...	4 0 0	0 8 0	1 12 0	Surface
	Freeburgh.				
McGuire and George ...	Three Star Reef ...	18 0 0	1 11 2·66	28 0 0	30 feet
Davis and Barnet ...	... ...	54 0 0	2 2 23·11	116 0 0	50 feet
McGuire and George ...	Three Star Reef ...	34 0 0	2 11 4·23	87 0 0	50 feet
	Bright.				
Jacobs and Co	Stackey Gully... ...	7 0 0	1 8 13·70	10 0 0	40 feet
Brown and Co.	Belle of the Ball ...	11 0 0	2 7 6·55	26 0 0	30 feet
Rochow and Co.	Pioneer	16 0 0	1 1 21	17 10 0	Surface
Brown and Co.	Belle of the Ball ...	5 0 0	0 16 0	4 0 0	40 feet
Rochow...	Pioneer	7 0 0	0 17 13·70	6 3 0	20 feet
	Harrietville.				
Page and Bell	Unity Reef	76 0 0	1 5 6·32	96 0 0	70 feet
Bird and Co.	Union Jack	15 0 0	1 7 8	20 10 0	80 feet
Davis and Co.	Tiddle-de-addle-dee ...	70 0 0	3 8 0	238 0 0	260 feet
Cadzow and Co.	Ajax...	40 0 0	0 6 0	12 0 0	Surface
Wilson and Co.	New Dodge	24 0 0	0 8 18	10 10 0	Surface to 30 feet
Morgan and Co.	Jackass	13 0 0	15 6 3·69	199 0 0	90 feet
Grenness and Co. ...	Eaglehawk	30 0 0	0 9 8	14 0 0	20 feet
J. A. Wallace	Shamrock	800 0 0	1 1 9·60	856 0 0	320 feet
Page and Bell	Unity	31 0 0	2 1 22·44	65 0 0	70 feet
Sundry small lots ...	... ...	40 0 0	1 5 0	50 0 0	
	Totals	1,526 0 0	1 8 21·25	2,203 19 0	
WANDILIGONG SUBDIVISION.					
Hood and Coutts (owners)...	Try Again Reef, Growler's Creek	140 0 0	0 8 16·63	60 17 0	
Six parcels for public ...	Growler's Creek ...	43 8 0	0 15 13·27	33 15 0	
E. M. Gill (owner) ...	Home Reef, Growler's Ck.	325 0 0	0 2 15·73	43 3 0	100 feet
E. M. Gill (owner) ...	Golden Bar, Growler's Ck.	20 0 0	0 5 7·20	5 6 0	
At "Never-too-Late" Mill:					
Gregory and Co. ...	Louisa Reef, Morse's Ck.	34 0 0	0 14 2·82	24 0 0	56 feet
Vale and Co.	Forlorn Hope, Morse's Ck.	18 0 0	2 18 21·33	53 0 0	300 feet
Stephens and Craig ...	Pride of Kildare, Morse's Creek	101 0 0	1 18 9·98	194 0 0	Surface
C. Hazelton	Who Knows, Morse's Ck.	27 10 0	0 13 2·18	18 0 0	Surface
At Fraser's Mill:					
London	London Reef, Growler's Creek	33 0 0	1 0 0	33 0 0	230 feet
Symes and Son ...	Native Industry, Growler's Creek	20 0 0	5 10 0	110 0 0	Surface
Londonderry	Londonderry, Growler's Creek	108 0 0	0 10 22·22	59 0 0	150 feet
Myrtle	Myrtle Reef, Growler's Ck.	887 0 0	0 6 9·29	283 5 12	340 feet
At Stephens' Mill:					
Mitchell and Co. ...	Morse's Creek, west ...	51 0 0	1 1 23·59	56 0 0	No information supplied
Eight other parcels ...	Various	81 8 0	1 1 11·38	87 8 0	
At Oriental Mill:					
Six public crushings ...	Various	37 8 0	0 17 0·77	31 17 0	
Beynon and Co. ...	Oriental Tribute ...	107 0 0	0 8 12·78	45 13 0	
McLeod and McPhee ...	Flagstaff, Oriental Range	16 14 0	2 8 9·19	40 8 0	
W. Smith	Home Reef	29 10 0	0 17 21·56	26 8 0	
Coxon and Co.... ...	Oriental Range ...	8 15 0	1 2 20·57	10 0 0	
At Queen of South Mill:					
Owners	Break-o'-Day	8 0 0	0 8 0	3 4 0	
Lloyd and Cremor ...	Crusade	3 0 0	16 13 8	50 0 0	
	Totals	2,099 13 0	0 12 7·76	1,268 4 12	

QUANTITY of QUARTZ Crushed in each Division and Subdivision during the Quarter, &c.—*continued.*

Division and Subdivision, and Name of Company.	Where Quartz was obtained.	Quartz Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Quartz was obtained, &c.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
ALEXANDRA SUBDIVISION.					
Niagara	Eldorado Reef, U. T. Ck.	1 10 0	1 16 8	2 14 12	
Britannia	Spring Creek	6 0 0	0 18 16	5 12 0	
J. Wilson	Acheron	29 0 0	0 18 19·04	27 5 0	
Fiery Reef	Acheron	10 0 0	1 17 0	18 10 0	
Just-in-Time	Gobur	50 0 0	0 3 9·60	8 10 0	
	Totals	96 10 0	0 12 23·25	62 11 12	
DRY CREEK SUBDIVISION.					
Robt. G. Meade	Table-land, Dry Creek ...	2,000 0 0	0 2 8·64	236 0 0	Surface to 60 feet
GAFFNEY'S CREEK SUBDIVISION.					
A1 G. M.	Castle Reef	300 0 0	1 8 8·96	425 12 0	60 feet
Golden Belt	Homeward-bound Reef...	260 0 0	0 4 2·70	53 9 6	300 feet
Other crushings	Homeward-bound Reef...	380 0 0	0 2 18·13	52 7 0	250 feet
Hunt's Tributers ...	Homeward-bound Reef...	300 0 0	0 2 18·53	41 11 14	100 feet
Rose of Denmark ...	Eureka Reef	200 0 0	0 3 4·39	31 16 15	150 feet.
Great Eastern	Homeward-bound Reef...	50 0 0	0 1 5·14	3 0 17	100 feet
Wallaby	Wallaby Reef	400 0 0	0 10 8·40	207 0 0	100 feet
	Totals	1,890 0 0	0 8 14·95	814 17 4	
WOOD'S POINT SUBDIVISION.					
Morning Star Prospecting Claim	Morning Star Reef ...	2,500 0 0	0 2 3·26	267 0 0	Surface.
Axton and Walsh ...	Morning Star Reef ...	250 0 0	0 3 12·96	44 5 0	Surface.
Lady Franklin	Johnson's Reef ...	830 0 0	0 5 6·88	219 8 0	About 200 feet
Sir John Franklin ...	Ford's Reef	750 0 0	0 4 14·53	172 14 12	About 80 feet
Messrs Knopp and Moore...	Leviathan Reef ...	60 0 0	5 1 9·60	304 4 0	Surface to 100 feet
	Totals	4,390 0 0	0 4 14·16	1,007 11 12	
BIG RIVER SUBDIVISION.					
Londonderry	Railway Reef	510 0 0	0 3 21·55	99 8 0	About 300 feet
Luck's All	Warner's Reef ...	650 0 0	0 1 1·59	34 13 0	About 200 feet
	Totals	1,160 0 0	0 2 7·47	134 1 0	
MITTA MITTA NORTH SUBDIVISION.					
Edward Skahill	Bethanga	17 0 0	0 12 14·12	10 14 0	
Clough and Co.	Bethanga Line ...	19 0 0	2 9 11·37	47 0 0	
Martin and Co.	Gift Line	53 0 0	0 4 9·96	11 14 0	
Graham and Co.... ...	Bethanga	50 0 0	0 14 0	35 0 0	
Walton and Co.	Gift Line	3 0 0	0 6 16	1 0 0	
Connoss and Co.	Bethanga Line ...	180 0 0	1 18 21·33	350 0 0	
Cornish and Co.	Hamburg	60 0 0	0 11 8	34 0 0	
Thompson and Co. ...	Cotton-tree Creek ...	3 0 0	1 9 8	4 8 0	
James Markey	Cotton-tree Creek ...	4 0 0	1 2 0	4 8 0	
McGrath and Co. ...	Bethanga Line ...	17 0 0	1 17 15·53	32 0 0	
William and Co.	Flagstaff Hill	36 0 0	0 18 0	32 0 0	
	Totals	442 0 0	1 5 10·53	562 4 0	
JAMIESON SUBDIVISION.					
Gleeson's Lease Tribute ...	Sailor Bill's Creek ...	140 0 0	0 12 20·91	90 2 0	380 feet.
Venture	Mack's Creek	390 0 0	0 7 21·20	153 14 12	150 feet
Sailor Bill's Tribute ...	Sailor Bill's Creek ...	120 0 0	0 6 4·80	37 4 0	400 feet
	Totals	652 0 0	0 8 14·89	281 0 12	

SANDHURST MINING DISTRICT.

SANDHURST DIVISION.					
Albert	Diamond Hill	459 0 0	0 7 3·38	163 17 17	
Beehive	Eaglehawk	3,940 0 0	0 5 15·25	1,110 4 0	
Bendigo and Melbourne ...	Kangaroo Flat ...	2,995 0 0	0 12 6·25	1,898 8 0	
Catherine Reef United ...	Eaglehawk	2,160 0 0	0 11 17·77	1,267 19 12	
Fortuna and Thanet Works	Sandhurst	4,506 0 0	0 7 19·60	1,761 3 0	
Garden Gully United ...	Garden Gully Reef ...	3,813 0 0	1 5 22·26	4,943 2 0	
G. G. Consolidated ...	Golden Gully	1,665 0 0	0 10 8·92	863 7 14	
Great Extended Hustler's	Hustler's Reef ...	3,691 0 0	0 6 21·35	1,271 10 0	
Great Britain	Golden Square ...	1,802 0 0	0 6 10·48	579 19 4	
Hercules and Energetic ...	Victoria Reef	3,901 0 0	0 8 23·11	1,748 5 0	
Johnson's Reef	Johnson's Reef ...	4,219 0 0	0 4 23·38	1,049 7 15	
Lazarus	New-chum Reef ...	2,491 0 0	0 15 10·30	1,921 15 0	
Louisa	Eaglehawk	3,258 0 0	0 9 6·42	1,509 14 6	
Metropolitan	Golden Square ...	2,666 0 0	0 5 5·42	696 13 0	
Morning Light	Golden Gully	1,016 0 0	0 2 18·70	141 4 0	
New-chum and Victoria ...	New-chum Reef ...	5,408 0 0	0 13 21·49	3,757 7 0	
Old Tom	Whipstick	236 0 0	1 2 5·69	262 8 0	
Shenandoah	Golden Square ...	2,333 0 0	0 5 3·64	600 19 19	
Victoria Consols	Victoria Reef	4,982 0 0	0 6 14·32	1,643 5 0	
Victoria Reef	Victoria Reef	4,506 0 0	0 10 6·98	2,318 12 0	
Wallace Reef	Whipstick	239 0 0	0 9 3·28	109 3 18	
	Totals	60,286 0 0	0 9 19·82	29,618 5 6	

QUANTITY of QUARTZ Crushed in each Division and Subdivision during the Quarter, &c.—*continued.*

Division and Subdivision, and Name of Company.	Where Quartz was obtained.	Quartz Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Quartz was obtained, &c.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
HEATHCOTE DIVISION AND WARANGA SOUTH SUBDIVISION.					
Alabama & Butler's Reef ...	Caledonia Gully ...	1,250 0 0	2 8 9·60	3,025 0 0	320 to 386 feet
Allison	Costerfield	200 0 0	0 10 0	100 0 0	210 to 265 feet
Collins	Redcastle	116 0 0	0 11 18·31	68 4 12	
	Totals	1,566 0 0	2 0 18·77	3,193 4 12	
WARANGA NORTH SUBDIVISION.					
Good Luck	Rushworth	115 0 0	0 11 16·48	67 4 0	
No. 1 E. Cambridge ...	Rushworth	61 0 0	0 8 9·83	25 13 0	
Phœnix	Rushworth	89 0 0	0 9 19·42	43 13 0	
Thompson and Co. ...	Rushworth	14 0 0	1 0 17·71	14 10 8	
Dixon and Co.	Rushworth	2 0 0	1 13 0	3 6 0	
Cobbledick and Co. ...	Rushworth	2 0 0	2 2 12	4 5 0	
Clausen and Co.	Rushworth	12 0 0	0 10 10	6 5 0	
Berg and Co.	Rushworth	7 0 0	0 17 10·28	6 2 0	
Sundry lots	Rushworth	10 0 0	0 10 0	5 0 0	
Balaclava	Whroo	1,343 0 0	0 6 6·05	419 16 12	
Hodge Bros.	Whroo	6 0 0	1 11 8	9 8 0	
Loughlin and Co. ...	Whroo	14 0 0	0 16 6·86	11 8 0	
Darrock and Co.	Whroo	3 0 0	2 9 8	7 8 0	
Irvine and Co.	Whroo	2 0 0	1 12 12	3 5 0	
Augustine and Co. ...	Whroo	92 0 0	0 12 2·86	55 15 0	
Grumbridge and Co. ...	Coy's Diggings ...	39 0 0	9 15 11·07	381 3 0	
Telford and Co.	Coy's Diggings ...	5 0 0	5 3 14·40	25 18 0	
Iverson and Co.	Coy's Diggings ...	8 0 0	2 3 3	17 5 0	
Back and Co.	Coy's Diggings ...	5 0 0	0 13 0	3 5 0	
Pollen and Co.	Coy's Diggings ...	30 0 0	5 16 4·80	174 6 0	
Apperman	Coy's Diggings ...	10 0 0	5 13 0	56 10 0	
O'Brien and Co.	Coy's Diggings ...	6 0 0	2 10 0	15 0 0	
Taylor and Co.	Coy's Diggings ...	18 0 0	3 2 5·33	56 0 0	
Myers and Co.	Coy's Diggings ...	13 0 0	1 3 12·92	15 6 0	
Scanlon and Co.	Coy's Diggings ...	6 0 0	0 2 12	0 15 0	
Iverson and Co.	Coy's Diggings ...	3 0 0	5 4 8	15 13 0	
	Totals... ...	1,915 0 0	0 15 1·94	1,443 19 20	

MARYBOROUGH MINING DISTRICT.

MARYBOROUGH DIVISION.					
Bristol Hill	Western Reef, Bristol Hill	1,150 0 0	0 9 7·90	536 9 0	500 to 530 feet
Cambrian (public crushings)	Various places ...	860 0 0	0 14 8·51	617 5 0	Various
Alexandra (crushed by Penny and Clausen)	Mosquito	201 0 0	0 11 8·23	114 0 0	240 feet
Penny and Clausen (public crushings)	Various places ...	67 0 0	0 12 18·98	42 17 0	Various
James Kay Reade and Co. (public crushings)	Various places ...	473 0 0	0 12 9	292 13 9	Various
	Totals	2,751 0 0	0 11 15·73	1,603 4 9	
AMHERST DIVISION.					
Croydon	... ...	315 0 0	0 3 21·29	61 4 12	65 feet
Dunstone	... ...	131 0 0	0 7 22·67	52 0 18	50 feet
Trickey	... ...	143 0 0	0 3 0·21	21 10 6	50 feet
No. 1 North	... ...	125 0 0	0 4 20·03	30 4 8	100 feet
Sundries	... ...	317 0 0	0 3 12·48	55 15 21	Surface to 50 feet
	Totals	1,031 0 0	0 4 6·79	220 15 17	
DUNOLLY AND TARNAGULLA DIVISIONS.					
Queen's Birthday ...	Goldsborough	4,143 0 0	1 3 18·22	4,921 15 0	300 to 400 feet
Sydenham	Sydenham Reef ...	15 0 0	0 17 12·40	13 2 18	200 feet
Decemvirate	Wayman's Reef ...	45 0 0	0 3 8·17	7 10 8	160 feet
Straker and Co.	Greek's Hill	7 0 0	0 5 0	1 15 0	200 feet
Blair and Grisold ...	Kay's Diggings ...	18 0 0	0 3 8	3 0 0	
	Totals	4,228 0 0	1 3 9·64	4,947 3 2	
INGLEWOOD DIVISION.					
Fone's Tribute	Liliputian Reef, Burke's Flat	1,040 0 0	0 5 0	260 0 0	
Little Gem	Jersey Reef, Inglewood	48 0 0	0 14 14	35 0 0	
	Totals	1,088 0 0	0 5 10·15	295 0 0	
ST. ARNAUD SOUTH SUBDIVISION.					
Smith and Robson ...	Sailor's Reef	10 0 0	0 11 12	5 15 0	40 feet
Adams and Co.	Spinster Reef	18 0 0	0 15 14·66	14 1 0	20 to 60 feet
	Totals	28 0 0	0 14 0·85	19 16 0	

QUANTITY of QUARTZ Crushed in each Division and Subdivision during the Quarter, &c.—*continued.*

Division and Subdivision, and Name of Company.	Where Quartz was obtained.	Quartz Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Quartz was obtained, &c.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
ST. ARNAUD NORTH SUBDIVISION.					
Sandhurst and St. Arnaud Chrysolite Tribute	Wilson's Hill	30 0 0	0 12 1·20	18 1 12	270 feet
Lord Raglan and St. Arnaud	Wilson's Hill	480 0 0	0 2 12·70	60 14 0	Surface
Greenock Reef	Greenock Reef ...	160 0 0	0 8 0	64 0 0	350 feet
	Totals	670 0 0	0 4 6·28	142 15 12	
CASTLEMAINE MINING DISTRICT.					
CASTLEMAINE DIVISION.					
McWalters and Son ...	Burns Reef	20 0 0	3 5 7·20	65 6 0	70 feet
Stackey	Specimen Reef ...	24 0 0	0 19 8	23 4 0	65 feet
Wattle Gully	Wattle Gully	435 0 0	0 4 22·65	107 10 12	300 to 450 fee
Central	Wattle Gully	1,140 0 0	0 6 9·48	364 10 9	350 feet
Argus United	Argus Reef	674 0 0	0 4 5·42	142 8 6	70 feet
Eureka	Eureka Reef	510 0 0	0 4 2·68	104 17 0	460 feet
Sebastopol Crushing ...	Various	212 0 0	0 5 6·11	55 14 0	Various
Forest Creek Crushing ...	Various	186 0 0	0 8 19·81	82 1 12	Various
Bowan and Davis ...	Nimrod Reef	76 0 0	0 6 0·94	22 19 0	120 feet
	Totals	3,277 0 0	0 5 21·86	968 10 15	
FRYER'S CREEK DIVISION.					
Black Hawk	Cattle's Reef	88 0 0	0 5 12	24 4 0	150 feet
New Era	Ferron's Reef	5,477 0 0	0 3 14·53	987 8 12	380 feet
Cattle's Reef	Cattle's Reef	71 0 0	0 3 15·88	13 0 0	70 feet
English-Australian ...	Golden Gully	950 0 0	0 3 21·04	184 3 0	318 to 430 feet
Redhouse and White ...	Golden Gully	174 0 0	0 2 16·82	23 10 0	52 feet
Rowe Brothers	Cattle's Reef	1,508 0 0	0 8 22·59	674 4 0	175 feet
The Fryers	Cattle's Reef	315 0 0	0 3 0·76	47 15 0	180 to 350 feet
Fullarton and Co. ...	Blacksmith's Gully ...	32 0 0	0 8 3	13 0 0	40 feet
	Totals	8,615 0 0	0 4 13·60	1,967 4 12	
HEPBURN DIVISION.					
Keep-it-Dark	Keep-it-Dark * ...	300 0 0	0 10 6·82	154 5 8	140 feet
Specimen Hill	Specimen Hill * ...	180 0 0	0 3 15·46	32 16 0	150, 383, 463 feet
Cornish	Cornish Reef	941 0 0	0 3 13·32	167 5 11	Surface to 200 feet
King and Willard ...	Willard's Reef ...	86 0 0	0 8 0	34 8 0	100 feet
Panham's	Pitcher's Reef ...	100 0 0	0 3 12	17 10 0	60 feet
Union	Mauritius Reef ...	200 0 0	0 3 12·78	35 6 12	140 feet
Richardson's	Bismark Reef	20 0 0	0 10 14·40	10 12 0	30 feet
Pozzis	Commissioner's Reef ...	350 0 0	0 0 12.68	9 5 0	10 to 100 feet
Walker's	Keep-it-Dark	12 0 0	2 12 12	31 10 0	40 feet
Ajax	Nuggety Reef ...	470 0 0	0 5 2·55	120 0 0	80 to 250 feet
Prospectors	Hepburn	400 0 0	0 10 0	200 0 0	Shallow
Rising Star	Blind Creek	1,156 0 0	0 7 6·39	419 19 16	706 tons, 60 feet; 450 tons, 110 feet
Argus	Italian Hill	426 0 0	0 3 12·28	74 16 14	Surface to 60 feet
	Totals	4,641 0 0	0 5 15·25	1,307 14 13	
TARADALE AND KYNETON SUBDIVISION.					
United Kingdom	Taradale	1,069 0 0	0 2 18	147 2 0	
Victoria	Taradale	90 0 0	0 3 0	13 10 0	
	Totals	1,159 0 0	0 2 18·51	160 12 0	
TARRANGOWER DIVISION.					
Caledonian Mills	Parkins' and Linscott's Reefs	641 0 0	0 11 16·73	374 18 0	400 to 500 fee
Phœnix Mills	German, Eaglehawk, and Beehive Reefs	960 0 0	0 8 15·73	415 9 14	80 to 230 feet
Linscott's Mills	Maybon, Eaglehawk, and Linscott's Reefs	310 0 0	0 13 18·11	213 4 0	500 feet
Great Western	Beehive Reef	315 0 0	0 6 13·64	103 9 0	Surface to 150 feet
Eaglehawk Union ...	Eaglehawk Reef ...	431 0 0	0 8 22·38	192 10 0	400 to 550 feet
	Totals	2,657 0 0	0 9 18·77	1,299 10 14	
ST. ANDREW'S DIVISION.					
Perseverance	One-tree Hill	16 0 0	3 11 9	57 2 0	120 feet
Prince Bismark	Caledonia	15 0 0	0 18 6·40	13 14 0	70 feet
Longley and Co.	Oram's Reef	4 10 0	1 9 2·74	6 11 0	230 feet
Plunket and Co.	Twenty Years After ...	15 0 0	1 9 3·20	21 17 0	45 feet
Murray and Co.	You-You	6 0 0	1 3 12	7 1 0	33 feet
Rickards and Co.	Golden Point	7 0 0	1 5 0	8 15 0	46 feet
First Hill	Warrandyte	8 0 0	0 19 3	7 13 0	200 feet
Lyre Bird	Hoddle's Creek ...	2 10 0	2 6 0	6 3 0	30 feet
Central	Reefton	61 0 0	2 18 12·20	178 9 0	240 feet
Apted and Co.	Pioneer	19 0 0	1 13 20·21	32 3 0	180 feet
	Totals	154 0 0	2 4 1·87	339 8 0	

* Estimated.

QUANTITY of QUARTZ Crushed in each Division and Subdivision during the Quarter, &c.—*continued.*

Division and Subdivision, and Name of Company.	Where Washdirt was obtained.	Washdirt Puddled.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Washdirt was obtained, &c.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
ARARAT MINING DISTRICT.					
PLEASANT CREEK DIVISION.					
Wimmera	Stawell reefs	4,553 0 0	0 16 10·24	3,739 11 9	200 to 1,000 feet
Pioneer and Galatea ...	Stawell reefs	4,396 0 0	0 14 3·69	3,111 1 6	200 to 1,100 feet
New St. George	Stawell reefs	2,621 0 0	0 12 18·99	1,676 6 0	480 to 1,110 feet
Scotchman's	Stawell reefs	2,836 0 0	0 9 12·34	1,349 2 14	300 to 850 feet
Moonlight	Stawell reefs	4,293 0 0	0 16 12·17	3,543 5 0	410 to 1,120 feet
Wonga and Birmingham ...	Stawell reefs	1,179 0 0	0 2 15·96	157 1 20	24 to 100 feet
	Totals	19,878 0 0	0 13 15·83	13,576 8 1	
GIPPSLAND MINING DISTRICT.					
OMEO SUBDIVISION.					
Rob Roy	Swift's Creek	70 0 0	2 0 0	140 0 0	From 20 to 50 feet
CROOKED RIVER DIVISION.					
Good Hope	Good Hope Reef ...	50 0 0	0 16 4·80	40 10 0	520 feet
Hubbard and Co.... ...	New America Reef ...	10 0 0	0 4 19·60	2 8 4	Surface to 60 feet
Boswell and Co.	White Top Reef ...	20 0 0	1 1 4·80	21 4 0	Surface to 30 feet
	Totals	80 0 0	0 16 0·65	64 2 4	
DONNELLY'S CREEK DIVISION.					
Hit-or-Miss	Southern boundary of lease	133 0 0	1 13 3·97	220 11 0	
Gippsland Consols ...	... ...	160 0 0	0 7 12	60 0 0	
Bismark United	... ...	80 0 0	1 0 22·50	83 15 0	
	Totals	373 0 0	0 19 12·80	364 6 0	
STRINGER'S CREEK DIVISION.					
Long Tunnel	Cohen's Reef	6,178 0 0	1 9 18·19	9,192 5 0	343 to 623 feet
ABERFELDY SUBDIVISION.					
Jas. Rice's Lease... ...	Aberfeldy	1,300 0 0	0 13 4·89	858 5 0	Between 100 and 150 ft.

QUARTZ TAILINGS, MULLOCK, ETC.

THE following information has been obtained from Returns made by the Mining Surveyors and Registrars relative to the Quantity of QUARTZ TAILINGS and MULLOCK, &c., Crushed in the several Divisions and Subdivisions of each Mining District during the Quarter, and the GOLD obtained therefrom.

Division and Subdivision, and Name of Company.	Where Quartz Tailings and Mullock, &c., were obtained.	Quartz Tailings and Mullock, &c., Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Mullock, &c., were obtained.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
BALLARAT MINING DISTRICT.					
CENTRAL DIVISION.					
Public battery	Ballarat East	457 0 0	0 2 0	45 14 0	
Public battery	Ballarat East	4,600 0 0	0 1 12	345 0 0	
	Totals	5,057 0 0	0 1 13·08	390 14 0	
BEECHWORTH MINING DISTRICT.					
BUCKLAND DIVISION.					
Morgan and Co.	Jackass Reef	42 0 0	1 4 6·86	51 0 0	
WANDILIGONG SUBDIVISION.					
C. Fraser	Oriental Reef	280 0 0	0 0 18·08	10 11 0	
One for public	Oriental Reef	84 0 0	0 1 9·71	5 18 0	
Three parcels at Stephens' mill	Not stated	32 15 0	0 3 18·87	6 4 0	
	Totals	396 15 0	0 1 3·40	22 13 0	
ALEXANDRA SUBDIVISION.					
Amalgamated Tribute ...	Lucky and Mysterious Reefs	150 0 0	0 0 4·80	1 10 0	
J. Wilson	Acheron	40 0 0	0 4 0	8 0 0	
	Totals	190 0 0	0 1 0	9 10 0	
MITTA MITTA NORTH SUBDIVISION.					
	Mitchell	50 0 0	0 3 1·92	7 14 0	
SANDHURST MINING DISTRICT.					
SANDHURST DIVISION.					
Johnson's Reef	Johnson's Reef ...	1,110 0 0	0 0 18·20	42 2 0	
HEATHCOTE DIVISION AND WARANGA SOUTH SUBDIVISION.					
Collins	Redcastle	176 0 0	0 1 3·82	10 4 0	
WARANGA NORTH SUBDIVISION.					
Balaclava	Whroo	241 0 0	0 1 6·82	15 9 12	
MARYBOROUGH MINING DISTRICT.					
MARYBOROUGH DIVISION.					
James Kay Reade and Co. (public crushings)	Various places ...	617 0 0	0 5 15	173 10 15	
ST. ARNAUD SOUTH SUBDIVISION.					
Douglas and Co.	Various reefs	215 0 0	0 0 21·21	9 10 0	
ST. ARNAUD NORTH SUBDIVISION.					
Greenock Reef ...	Greenock Reef ...	120 0 0	0 4 0	24 0 0	
CASTLEMAINE MINING DISTRICT.					
CASTLEMAINE DIVISION.					
Nuggety	Nuggety Reef ...	500 0 0	0 1 0	25 0 0	
Crown Nimrod	Nimrod Reef	1,458 0 0	0 0 11·90	36 3 0	
	Totals	1,958 0 0	0 0 14·99	61 3 0	
TARRANGOWER DIVISION.					
Phœnix Mills	Growler's Gully ...	437 0 0	0 1 0	21 17 0	
ARARAT MINING DISTRICT.					
PLEASANT CREEK DIVISION.					
Wonga and Birmingham ...	... ...	15 0 0	0 5 5	3 18 3	
GIPPSLAND MINING DISTRICT.					
STRINGER'S CREEK DIVISION.					
Walhalla	Stringer's Creek ...	485 0 0	0 5 14·05	135 9 0	
TARWIN SUBDIVISION.					
Kelly and Wilkinson ...	No. 1 South Claim ...	30 0 0	0 6 0	9 0 0	

PYRITES AND BLANKETINGS.

THE following information has been obtained from Returns made by the Mining Surveyors and Registrars relative to the Quantity of PYRITES and BLANKETINGS operated on in the several Divisions and Subdivisions of each Mining District during the Quarter, and the GOLD obtained therefrom.

Division and Subdivision, and Name of Company.	Where Pyrites and Blanketings were obtained.	Pyrites and Blanketings operated on.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Pyrites, &c., were obtained.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
BALLARAT MINING DISTRICT.					
CENTRAL DIVISION.					
Llanberris	Ballarat East	7 10 0	2 8 1·36	18 4 6	
Private parties	Ballarat East	110 0 0	0 9 2·18	50 0 0	
	Totals	117 10 0	0 11 14·60	68 4 6	
CRESWICK DIVISION.					
Port Phillip	Clunes reefs	115 0 0	4 9 17·73	516 0 0	
New North Clunes ...	Clunes reefs	22 15 0	5 3 12·39	117 15 0	
South Clunes	Clunes reefs	37 15 0	5 15 18·27	218 10 0	
New Lothair	Clunes reefs	5 15 0	2 14 2·78	15 11 4	
	Totals	181 5 0	4 15 18·19	867 16 4	
STEIGLITZ SUBDIVISION.					
McKay's battery	Elaine	136 0 0	1 4 20·29	168 19 0	
BLACKWOOD DIVISION AND BLUE MOUNTAIN SOUTH SUBDIVISION.					
Sultan	Barry's Reef ...	8 8 0	4 17 14·81	41 0 0	
BEECHWORTH MINING DISTRICT.					
BEECHWORTH DIVISION.					
Reform	Myrtleford	58 0 0	1 18 13·65	111 17 0	
YACKANDANDAH SOUTH SUBDIVISION.					
Bigelowe and Clingan ...	Hillsborough	50 0 0	0 15 0	37 10 0	
Green and Co.	Bruarong	18 0 0	0 17 0	15 6 0	
Waterloo	... ...	2 0 0	3 15 0	7 10 0	
	Totals	70 0 0	0 17 5·34	60 6 0	
WANDILIGONG SUBDIVISION.					
E. M. Gill	Various	50 0 0	1 8 0	70 0 0	
GAFFNEY'S CREEK SUBDIVISION.					
The Golden Belt	Homeward-bound Reef	6 0 0	1 17 16	11 6 0	
SANDHURST MINING DISTRICT.					
SANDHURST DIVISION.					
United Pyrites ...	Pinchgut Gully ...	283 0 0	3 16 11·35	1,082 1 22	
Sandhurst and Eaglehawk ...	Jackass Flat	269 0 0	1 15 9·27	475 19 0	
R. J. Liddle and Co. ...	Derwent Gully ...	120 0 0	2 2 14·90	255 14 12	
	Totals	672 0 0	2 13 23·55	1,813 15 10	
CASTLEMAINE MINING DISTRICT.					
CASTLEMAINE DIVISION.					
Yeats	Castlemaine	140 0 0	1 19 17·65	278 3 0	
Eureka Consols	Eureka	3 0 0	7 8 0	22 4 0	
	Totals	143 0 0	2 2 0·16	300 7 0	
TARRANGOWER DIVISION.					
Phœnix Mills	... ...	90 0 0	0 8 21·33	40 0 0	
Caledonian Mills ...	... ...	1 10 0	2 18 16	4 8 0	
	Totals	91 10 0	0 9 11·67	44 8 0	
GIPPSLAND MINING DISTRICT.					
STRINGER'S CREEK DIVISION.					
Long Tunnel	Cohen's Reef	65 15 0	2 10 18·83	167 1 0	

WASHDIRT AND CEMENT.

SUMMARY.

THE following information has been obtained relative to the QUANTITY of WASHDIRT Puddled and Sluiced and CEMENT Crushed during the Quarter, and the GOLD obtained therefrom.

Mining Districts.	Quantity Puddled and Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold from Washdirt.	Mining Districts.	Quantity Puddled and Crushed.	Average Yield of Gold per Ton.	Total Yield of Gold from Cement.
Washdirt.	tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	*Cement.*	tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.
Ballarat ...	11,542 0 0	0 2 17·25	1,569 2 17	Ballarat ...	1,397 0 0	0 3 5·67	226 1 7
Beechworth ...	31,509 0 0	0 1 6·89	2,028 7 6	Beechworth ...	...	...	...
Sandhurst ...	...	...	...	Sandhurst ...	31 0 0	0 6 6·97	9 15 0
Maryborough ...	11,778 0 0	0 2 11·59	1,462 2 12	Maryborough ...	693 0 0	0 2 1·37	71 5 12
Castlemaine ...	116,102 0 0	0 0 21·39	5,175 15 9	Castlemaine ...	320 0 0	0 3 14·10	57 8 0
Ararat ...	2,448 0 0	0 4 18·75	585 5 12	Ararat ...	3,430 0 0	0 6 5·49	1,068 5 10
Gippsland ...	...	...	...	Gippsland ...	...	...	...
Totals ...	173,379 0 0	0 1 5·96	10,820 13 8	Totals ...	5,871 0 0	0 4 21·14	1,432 15 5

NOTE.—This Summary does not show the total quantities of washdirt puddled and sluiced and cement crushed, but only the yield of certain crushings, &c., respecting which the Mining Surveyors and Registrars have been able to obtain information. Owing to the circumstance that many of the machine-owners are unable to give, or are precluded from giving, information, it is impossible to get complete returns from every district; and in considering the relative importance of each district, as regards alluvial mining, &c., the tables relating to machinery should be examined and compared.

Office of Mines,
Melbourne, 18th January 1879.

THOS. COUCHMAN,
Secretary for Mines.

WASHDIRT.

THE following information has been obtained from Returns made by the Mining Surveyors and Registrars relative to the QUANTITY of WASHDIRT Puddled or Sluiced in the several Divisions and Subdivisions of each Mining District during the Quarter, and the GOLD obtained therefrom.

Division and Subdivision, and Name of Company.	Where Washdirt was obtained.	Washdirt Puddled.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Washdirt was obtained, &c.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
BALLARAT MINING DISTRICT.					
CENTRAL DIVISION.					
Winter's Freehold ...	Parish of Cardigan ...	8,928 0 0	0 2 9·04	1,061 0 0	405 feet; average depth of washdirt 1 to 6 ft.
SOUTHERN DIVISION.					
Turner and party ...	Break-o'-Day	1,856 0 0	0 2 23·10	274 19 0	40 to 55 ft., 3 ft. thick
Grant and party	Break-o'-Day	378 0 0	0 3 12·31	66 7 22	Surface to 35 feet, 4 feet thick
Welcome	Pitfield Plains ...	300 0 0	0 10 7·71	154 16 9	80 feet, 4 feet thick
Doughboy	Pitfield Plains ...	80 0 0	0 2 23·82	11 19 10	70 feet, 1 foot thick
	Totals	2,614 0 0	0 3 21·30	508 2 17	
BEECHWORTH MINING DISTRICT.					
BEECHWORTH DIVISION.					
United Eldorado	Eldorado	16,688 0 0	0 0 15	521 10 0	and 89 tons 8 cwt. of black sand, 90 ft. floor
INDIGO DIVISION.					
Chiltern Valley	Chiltern Lead	14,661 0 0	0 2 0	1,466 2 0	330 feet
ALEXANDRA SUBDIVISION.					
Revival	Working Miners' Lead, Godfrey's Creek	160 0 0	0 5 2·29	40 15 6	80 feet
MARYBOROUGH MINING DISTRICT.					
MARYBOROUGH DIVISION.					
Gladstone	Alma	430 0 0	0 2 5·97	48 7 0	
Seaham	Alma	310 0 0	0 2 12	38 15 0	
Argus	Chinaman's	470 0 0	0 4 0	94 0 0	
	Totals	1,210 0 0	0 2 23·84	181 2 0	
AMHERST DIVISION.					
Hoffnung	Mount Greenock South	203 0 0	0 7 4·61	73 0 0	60 feet
Union	Mount Greenock ...	3,900 0 0	0 1 0·63	200 2 12	250 feet
	Totals	4,103 0 0	0 1 7·95	273 2 12	
AVOCA SUBDIVISION.					
Working Miners' Co., Homebush	From company's ground	6,240 0 0	0 3 2·07	962 18 0	
INGLEWOOD DIVISION.					
Golden Gate	Daly Lead, Inglewood ...	225 0 0	0 4 0	45 0 0	

QUANTITY of WASHDIRT Puddled or Sluiced *in* the several Divisions and Subdivisions, &c.—*continued.*

Division and Subdivision, and Name of Company.	Where Washdirt was obtained.	Washdirt Puddled.	Average Yield of Gold per Ton.	Total Yield of Gold.	Remarks relative to the Depth at which the Washdirt was obtained, &c.
		tons cwt. qr.	oz. dwt. gr.	oz. dwt. gr.	
CASTLEMAINE MINING DISTRICT.					
FRYER'S CREEK DIVISION.					
Ellis and Co.	Church's Flat... ...	1,300 0 0	0 0 12	32 10 0	12 feet
Parsons and Co.	Horseshoe Bend ...	1,820 0 0	0 1 3·42	104 0 0	16 feet
Tonkin and Co	Chok'em Flat ...	1,500 0 0	0 0 5·76	18 0 0	16 feet
Williams and Co. ...	New Year's Flat ...	1,950 0 0	0 0 6·40	26 0 0	16 feet
T. Stephens and Co. ...	New Year's Flat ...	1,300 0 0	0 0 11·81	32 0 0	17 feet
Trethewey and Co. ...	New Year's Flat ...	1,560 0 0	0 0 10	32 10 0	10 feet
Vosti and Co.	Pennyweight	520 0 0	0 1 17·53	45 0 0	16 feet
Thomas and Co.	Spring Gully	3,500 0 0	0 0 2·67	19 10 0	10 feet
Mein's Freehold	Guildford	3,600 0 0	0 2 10·24	436 17 0	220 feet
Thomas and Co.	Bald Hill	400 0 0	0 1 0	20 0 0	90 feet
Brewer and Co.	New Year's Flat ...	650 0 0	0 0 9·60	13 0 0	16 feet
	Totals	18,100 0 0	0 0 20·67	779 7 0	
HEPBURN DIVISION.					
Six companies	Shepherd's Flat ...	1,800 0 0	0 1 1·60	96 0 0	25 to 50 feet
Sailor Prince	Deep Creek* ...	5,000 0 0	0 1 4·04	292 2 6	Tunnel
Hurley's and Cassim's parties	Wombat Creek ...	450 0 0	0 1 1·76	24 3 0	8 feet
Sutton's party and Power's	Table Hill	1,480 0 0	0 0 13·92	43 2 0	4 to 50 feet
Fitz's., Abel's, Federal, and Spence's companies	Italian Hill and Connell's Gully	2,070 0 0	0 1 1·65	110 13 0	5 feet
Price's and Kirkham's parties	Dry Diggings... ...	2,340 0 0	0 1 6·15	147 0 0	5 to 14 feet
Stephens' party	Wombat Creek ...	217 0 0	0 1 15·80	18 0 0	30 feet
Brow and party	Italian Hill	345 0 0	0 0 22·40	16 2 0	90 feet
Foletti's party	Cameron's Gully ...	2,160 0 0	0 0 5·88	26 10 0	8 feet
Foletti's party	Stony Creek	1,470 0 0	0 0 9·51	29 7 0	6 feet
Toquine's party	Stony Creek	3,385 0 0	0 0 4·71	33 5 0	10 feet
Bolla's party	Elevated Plains ...	840 0 0	0 0 18	31 10 0	70 feet
Myers', Burton's, and Merrit's parties	Kidd's Gully	12,349 0 0	0 0 1·56	40 7 0	7, 26, and 30 feet
Campbell's, Baker's, and Black's parties	Doctor's Gully ...	1,876 0 0	0 0 11·21	43 16 0	7, 15 feet
Cameron's party... ...	Sailors' Creek ...	220 0 0	0 0 18·43	8 9 0	7 feet
Anderson's party ...	Boots Gully	900 0 0	0 0 8·66	16 5 0	12 feet
Simmons' party	Wallaby Creek ...	750 0 0	0 0 14·78	23 2 0	14 feet
300 Chinese	All Hepburn*... ...	14,000 0 0	0 0 23·14	675 0 0	Shallow
300 Europeans	All Hepburn*... ...	15,000 0 0	0 0 16	500 0 0	Shallow
Long Tunnel	Italian Hill*	500 0 0	0 0 8·31	8 13 6	
Shimming's party ...	Dry Diggings* ...	1,000 0 0	0 0 15·12	31 10 0	Shallow
Prince Extended Tunnel ...	Deep Creek*	3,400 0 0	0 0 12·38	87 15 0	
Franklinford	Franklinford* ...	10,000 0 0	0 0 14	291 15 9	130 feet
	Totals	81,552 0 0	0 0 15·26	2,594 6 21	
TARADALE AND KYNETON SUBDIVISION.					
Ironstone Hill	Malmsbury	2,250 0 0	0 7 0	787 10 0	300 feet
Confluence	Malmsbury	90 0 0	0 5 18·66	26 0 0	260 and 180 feet—two levels
	Totals	2,340 0 0	0 6 23	813 10 0	
TARRANGOWER DIVISION.					
Knight and Co.	Porcupine Flat ...	325 0 0	0 0 17·28	11 14 0	30 feet
Abram Grigg	Pegleg Gully	700 0 0	0 0 18	26 5 0	20 feet
Robt. Grigg	Porcupine Flat ...	390 0 0	0 0 18	14 12 12	30 feet
Kent and Co.	Eaglehawk	528 0 0	0 0 15	16 10 0	15 feet
Grenfell and Co.	Parkins' Reef... ...	135 0 0	0 0 19·56	5 10 0	12 feet
	Totals	2,078 0 0	0 0 17·22	74 11 12	
ST. ANDREW'S DIVISION.					
Hope	Warrandyte	32 0 0	0 2 12	4 0 0	Shallow
178 Europeans	... ...	10,000 0 0	0 1 14·40	800 0 0	Shallow
46 Chinese	... ...	2,000 0 0	0 1 2·40	110 0 0	
	Totals	12,032 0 0	0 1 12·46	914 0 0	

* Estimated.

ARARAT MINING DISTRICT.

RAGLAN DIVISION.					
The New Victoria ...	Waterloo Flat ...	About 2,448 0 0	0 4 18·75	585 5 12	160 feet from the surface

NUMBER and DISTRIBUTION of MINERS on the Goldfields, &c.—*continued.*

Name of Place.	No.	Total.
Brought forward	...	2,165
Indigo Division—continued.		
Lanarkshire Lead	3	
Caledonian Lead	17	
Clydesdale	8	
Bobby Burns	12	
Rutherglen Reefs	39	
Chiltern Reefs	44	
All England Lead	4	
Newcastle Lead	5	
Kincardinshire Lead	4	
Durham Lead	6	
		417
Wandiligong Subdivision:		
Morse's and Growler's Creeks ...	175	
		175
Buckland Division:		
Harrietville	166	
Harrietville to Bright	412	
Bright to Running Creek	110	
Buckland to Junction	239	
		927
Alexandra Subdivision:		
Alexandra and vicinity	20	
Godfrey's Creek and vicinity ...	25	
Devil's River and tributaries ...	15	
Johnson's Creek and tributaries ...	8	
Head of U T Creek	10	
Goulburn River	15	
Doogalook	2	
Spring Creek	10	
Higinbotham	10	
Tea-tree Creek and vicinity ...	15	
Acheron River	6	
Maindample and Doon	10	
Yea	20	
Merton and vicinity	12	
Scattered population	12	
		190
Dry Creek Subdivision:		
Brankeet Creek	10	
Dry Creek	22	
Hell's Hole	19	
Table Land	17	
		68
Gaffney's Creek Subdivision:		
Goulburn River	8	
Gaffney's Creek	20	
Cannon's Creek	14	
Raspberry Creek, &c.	50	
Lyrebird Creek	2	
Wallaby Reef, &c.	12	
Moving population	6	
Moonlight Creek	2	
Ryan's Creek	2	
		116
Wood's Point Subdivision:		
Wood's Point and Morning Star ...	25	
Lower Goulburn	12	
Right and left branches	15	
Gooley's Creek	4	
Harper's and Pheasant Creeks ...	12	
Perkins' Creek and Waverley ...	8	
All Nations	6	
Black River	9	
Moving population	7	
Maori Creek	3	
Never-mind Spur	54	
		155
Big River Subdivision:		
Frenchman's Creek	1	
Warner's Creek	12	
Enoch's Point	8	
Railway Creek	12	
Jim Thomas' Creek	4	
Big River North	28	
Big River South	4	
Fry's Creek	6	
Moving population	7	
Goulburn River	4	
		86
Mitta Mitta North Subdivision:		
Hamburg	10	
Gift Line	70	
Flagstaff Hill	10	
Bethanga Line	40	
Excelsior	10	
Jarvis Creek	5	
Cotton tree Creek	35	
		180
Carried forward	...	4,479

Name of Place.	No.	Total.
Brought forward	...	4,479
Mitta Mitta South Subdivision:		
Lightning Creek	17	
Granite Flat	44	
Mitta Mitta River	11	
Junction	18	
		90
Jamieson Subdivision:		
Howqua River and tributaries ...	5	
Goulburn River, from Howqua to Jamieson	25	
Mack's Creek	60	
Goulburn River, from Jamieson to Swampy Creek	70	
Sailor Bill's Creek	100	
Flume Creek	30	
Baker's Creek	30	
		320
Total for Beechworth District...	...	4,889
SANDHURST DISTRICT.		
Sandhurst Division:		
Back Creek and Spring Gully ...	200	
Sheepshead and Golden Gully ...	270	
Golden Square and Kangaroo Flat ...	450	
Crusoe Gully and neighborhood ...	90	
Marong and Bullock Creek ...	150	
Victoria and New-chum Reefs ...	490	
Long, Maiden, and Derwent Gullies ...	480	
Ironbark	490	
Bendigo Flat	450	
White Hills and Epsom	40	
Huntly	170	
Sydney Flat and Whipstick ...	250	
Specimen Hill and Sailors' Gully ...	260	
Devonshire Gully and Dead-horse Flat	220	
Windmill Hill and California Gully ...	330	
Eaglehawk Gully and Flat	270	
Snob's Hill and Pegleg Gully ...	340	
Raywood	50	
Elysian Flat	50	
Sebastian	100	
Kamarooka	45	
Scattered and prospecting	300	
		5,495
Kilmore Division:		
Reedy Creek	22	
Sunday Creek	6	
		28
Heathcote Division and Waranga South Subdivision:		
Graytown	20	
Redcastle	90	
Heathcote	150	
Costerfield	210	
Tooborac	25	
Kimbolton and Campaspe	25	
Coliban and Myrtle Creek	30	
Wild-duck	35	
		585
Waranga North Subdivision:		
Rushworth	99	
Whroo and White Hills	102	
Coy's Diggings	42	
Waranga	2	
		245
Total for Sandhurst District ...	...	6,353
MARYBOROUGH DISTRICT.		
Maryborough Division:		
Alma	375	
Waterloo	50	
Inkerman	50	
Moonlight Flat	50	
Adelaide Lead	120	
Golden Point	80	
Craigie	80	
Four-mile Flat	85	
Carisbrook	175	
Mosquito	150	
Blucher's	265	
Newtown	150	
Havelock	165	
Chinaman's	700	
Blackman's Lead	50	
Maryborough	330	
		2,875
Carried forward	...	2,875

NUMBER and DISTRIBUTION of MINERS on the Goldfields, &c.—*continued.*

Name of Place.	No.	Total.
Brought forward	...	2,875
Majorca Subdivision:		
Majorca	22	
England's Hill Lead	11	
Gibraltar Lead	6	
Scandinavian Lead	18	
McCallum's Creek	29	
Rocky Flat	17	
		103
Amherst Division:		
About Talbot	50	
Scandinavian Lead	20	
Mount Greenock	70	
Nuggety and Long Gullies	30	
Kangaroo Gully and Flat	25	
Mia Mia and tributaries	35	
Daisy Hill and tributaries	140	
Adelaide Lead South	60	
Blacksmith's Gully	12	
Emu and Cockatoo	26	
Brown's Gully	6	
Norfolk Gully	16	
Rocky Flat	4	
Mount Glasgow	4	
Lilicur	10	
Eglinton	6	
		514
Avoca Subdivision:		
Amphitheatre	50	
Avoca Lead	80	
Green Hill Creek	72	
Percydale	155	
Homebush	170	
Lamplough	140	
Mountain Hut	25	
No. 1 Creek	45	
No. 2 Creek	100	
Kimberley and Sardine	15	
Donkey Hill	10	
Middle Creek, &c.	25	
Gullies east of Avoca	15	
Glenmona Reef	4	
Perseverance Reef...	4	
		910
Dunolly and Tarnagulla Divisions:		
Dunolly	200	
Burnt Creek	65	
Goldsbrough	150	
Inkerman	40	
Moliagul, &c.	130	
Bealiba	60	
Murphy's Flat, &c....	15	
Jones' Creek, &c.	70	
Tarnagulla	80	
Half-way, &c.	30	
Llanelly, &c.	40	
Wild-dog, &c.	50	
		930
Inglewood and Wedderburn Divisions:		
Berlin Diggings	300	
Kingower	120	
McIntyre's	130	
Synnott's	50	
Burke's Flat	50	
Inglewood	270	
Wedderburn	76	
Garibaldi	13	
Avoca Forest	11	
Woolshed and Yorkshire Flat ...	27	
Opossum Hill	130	
Jordan	6	
Wehla	50	
		1,233
Redbank and St. Arnaud South Subdivisions:		
Stuartmill, &c.	55	
Redbank, &c.	50	
Fowler's Lead	30	
Hinds	30	
Moonambel, &c.	80	
Darling Flat	40	
Emerald Flat	60	
Sandy Creek	20	
Canterbury	20	
		385
St. Arnaud North Subdivision:		
New Bendigo	40	
St. Arnaud	180	
Stuartmill, &c.	40	
Silver Mines, &c.	20	
Rostron's and Wattle Flat	20	
Emu, &c.	15	
Carried forward	...	6,950

Name of Place.	No.	Total.
Brought forward	...	6,950
St. Arnaud North Subdivision—continued.		
Carapooe	20	
Bell Rock, &c.	20	
Blink Bonnie, &c.	10	
Duchess of Edinburgh	20	
Jerejaw, &c.	20	
Victoria Reef, &c.	20	
		425
Total for Maryborough District ...	...	7,375

CASTLEMAINE DISTRICT.

Castlemaine Division:		
Castlemaine	60	
Eureka Reef	34	
Guildford	112	
Campbell's Creek	102	
Sailor's Gully	33	
Barker's Creek	80	
Myrtle Creek	42	
Moonlight Flat	54	
Chewton	180	
Wattle Gully	89	
Golden Point	74	
Diamond Hill	98	
		958
Fryer's Creek Division:		
Golden Gully to Fryerstown ...	180	
Spring Gully to Specimen Hill ...	80	
Chok'em Flat to Vaughan	220	
Butcher's and Kangaroo Hills ...	80	
German and Mopoke Gullies ...	105	
Loddon: Vaughan to Pennyweight ...	100	
Table Hill and Tarilta	100	
Guildford Hills	200	
Loddon: Vaughan to Holcombe ...	165	
Nuggety Gully and Irishtown ...	110	
Green and Sailors' Gullies	35	
Pickpocket and Hard Hills	50	
Strathloddon and Hit-or-Miss ...	120	
		1,545
Hepburn Division:		
Dry Diggings Section	68	
Yandoit Section	92	
Boots Gully Section	41	
Italian Gully Section	60	
Spring Creek Section	63	
Doctor's Gully Section	52	
Brandy-hot Section	33	
Deep Creek Section	85	
Blind Creek Section	110	
Stony Creek Section	75	
Wombat Creek Section	80	
Daylesford Section	265	
Connel's Gully Section	75	
		1,099
Taradale and Kyneton Subdivision:		
Taradale	85	
Liberty Flat and Belltopper, &c. ...	90	
Redesdale	35	
Malmsbury	55	
Coliban	25	
Lauriston	40	
Scattered	80	
		410
Tarrangower Division:		
North Maldon	40	
Beehive Hill	45	
Eaglehawk	118	
Long Gully	31	
Porcupine Flat	25	
Fiddler's Flat	2	
Mount Tarrangower	10	
Sandy Creek	57	
Nuggety	6	
Mia Mia	6	
Green Valley	10	
Muckleford	14	
Clydesdale	12	
River Loddon	12	
Parkin's Reef	32	
German Reef	29	
Bell's Reef	5	
Welshman's Reef	4	
		458
Carried forward	...	4,470

NUMBER and DISTRIBUTION of MINERS on the Goldfields, &c.—*continued.*

Name of Place.	No.	Total.
Brought forward	...	4,470
St. Andrew's Division:		
Anderson's Creek	70	
Long Gully	18	
Smith's Gully	16	
You-You	14	
Wild-dog	12	
Walsh's	11	
Warburton	6	
Cherry-tree	13	
Cobbler's Gully	5	
Watery Gully	6	
Reefton	24	
Pioneer	9	
Queenstown	34	
Kingstown	14	
One-tree Hill	7	
McMahon's	8	
Emerald	9	
Starvation Creek	4	
Hoddle's Creek	40	
Diamond Reefs	7	
Muddy Creek	7	
Wombat Creek	10	
Wilson's Creek	12	
		356
Blue Mountain North Subdivision:		
Trentham	6	
Newbury	26	
Garlick's	43	
		75
Total for Castlemaine District ...	...	4,901
ARARAT DISTRICT.		
Ararat Division:		
Ararat Proper	160	
Armstrong's	70	
Philip's Flat and Cathcart	70	
Rhymney Reef and Shea's Flat ...	35	
Opossum Gully and Port Curtis ...	90	
Moyston and Londonderry	50	
		475
Pleasant Creek Division:		
Silver Shilling	15	
Deep Lead, Forty-foot, & Welshman's Flat	500	
Great Western	40	
Stawell	935	
Seventy-foot	30	
Germania	28	
Welcome	9	
Darlington	8	
Ironbark	67	
Cosmopolitan	12	
		1,644
Barkly Division:		
Landsborough	85	
Barkly	70	
Frenchman's	220	
Glenpatrick	50	
		425
Raglan Division:		
Beaufort	80	
Sailors' Gully	29	
Charlton	35	
Waterloo	80	
Old Main Lead	125	
		349
Total for Ararat District ...	...	2,893
GIPPSLAND DISTRICT.		
Omeo Subdivision:		
Livingstone Creek	150	
Mitta Mitta River, from Cobungra to Wombat Creek	14	
Wombat Creek	25	
Gibbo River	17	
Swift's Creek	160	
River Tambo	14	
Sassafras Creek	75	
		455
Mitchell River and Boggy Creek Subdivisions:		
Nicholson and Tambo Rivers ...	90	
Boggy Creek and tributaries ...	98	
Merrijig Creek and tributaries ...	20	
Sandy's Creek and tributaries ...	20	
		228
Carried forward	...	683

Name of Place.	No.	Total.
Brought forward	...	683
Crooked River Division:		
Grant	12	
Crooked River	40	
Jungle Creek	5	
Twelve-mile Creek	2	
Twenty-five-mile Creek	28	
Thirty-mile Creek	4	
Wentworth	26	
Upper Dargo	22	
Middle Dargo	18	
Lower Dargo	12	
Upper Mitchell	20	
Good Hope	6	
Good Luck Creek	14	
Swamp and Morris' Creeks	26	
Wonnangatta	2	
Wongungarra	10	
		247
Jericho Division:		
Dry Creek	8	
Lower Jordan	40	
Upper Jordan	7	
Red Jacket Creek	10	
B B Creek	30	
Thomson River	14	
Aberfeldy River	12	
		121
Donnelly's Creek Division:		
Donnelly's Creek	63	
Aberfeldy, Fulton's, &c.	13	
		76
Stringer's Creek Division:		
Stringer's Creek	45	
Walhalla (Cohen's Reef)	257	
Aberfeldy River	38	
Thomson River	80	
Happy-go-lucky	4	
Ranges (prospecting)	10	
		434
Aberfeldy Subdivision:		
Aberfeldy River	66	
Thomson River	24	
Lily of the Valley Co.	30	
James Rice's Lease, Aberfeldy	40	
Star and Thomson	2	
		162
Russell's Creek Division:		
Crossover Creek	18	
Tanjil	46	
Russell's Creek	6	
Hawthorn Creek	8	
Wombat Creek	3	
Western Branch of Tangil	1	
Pheasant Creek	5	
Bull Beef Creek	4	
Lady Manners Sutton	2	
Columbia Reef	4	
Slater's Creek	1	
Good Hope	2	
Kenny's Creek	4	
		104
Bendoc Subdivision:		
Bendoc	6	
Bonang	8	
Delegate River	9	
Bog and Queensborough	14	
Lower Bendoc	3	
Prospecting	2	
Back Creek	8	
		50
Tarwin Subdivision:		
Foster	43	
Turton's Creek	8	
		51
Traralgon Subdivision:		
Morewell	4	
Naracan Creek	4	
Traralgon Creek	6	
Flinn's Creek	4	
Tyers and Creek	10	
Merriman's Creek	4	
Moe	2	
La Trobe	5	
Bennett's Creek	2	
East Tarwin	8	
Haunted Hill	2	
		51
Total for Gippsland District ...	...	1,979
GRAND TOTAL ...	...	36,636

Office of Mines,
Melbourne, 18th January 1879.

THOS. COUCHMAN,
Secretary for Mines.

MINING SURVEYORS AND REGISTRARS' REPORTS.

BALLARAT MINING DISTRICT.

CENTRAL DIVISION.

Mr. David Christy, Mining Registrar.

During the last quarter the general character of mining in this division has been very encouraging, and indicates a prosperous future to those engaged in this important industry.

The Park Extended Company, in possession, under miners' rights, of the land formerly held by the Hand and Band Company, are at present making repairs and additions to the machinery on their claim. This company intend to thoroughly pursue mining operations in the large area of unworked auriferous land (600 acres) known to exist within their boundaries.

The prospects of the City of Ballarat Company are daily improving. The company, having surmounted innumerable difficulties, are at present driving under the gutter, and expect to reach washdirt in about four months, which it is to be expected will prove amply remunerative and recoup the shareholders for their many years of perseverance and heavy expenditure.

Baker and Co. have nearly completed the erection of a 22 stamp-head battery at Mount Clear. This company have commenced to construct a tunnel through the White Horse Ranges, from a point at the eastern side of the Yarrowee Creek, the length of which it is computed will be at least 2,000 feet, for the purpose of draining the ground and intersecting the numerous quartz veins known to exist in that locality. It is estimated that this work will be completed in about four months, and a large area of payable ground opened up, affording employment to several hundred miners. It will be seen by reference to the statistical matter in my report that a yield of 18 dwts. per ton has been obtained from 3,000 tons of stone from this claim. Donovan and party (tributers to Baker and Co.) crushed 25 tons, which yielded 257 ozs. of gold.

The Guiding Star Company's claim, Sebastopol, has yielded an average of over 8½ dwts. to the ton from 582 tons. The lode is regular and well defined, varying from 5 to 7 feet in thickness, so far as it has been opened up.

The City of York Company (Yorkshire Reef), near Little Bendigo, has recently struck an excellent body of stone, yielding 4 dwts. 12 grs. per ton, but the present finds will give much higher results.

The Countess Company, Melbourne road, intend sinking their present shaft to a depth of 500 feet to work the rich "Indicator" line of reef, which it is supposed traverses their claim.

The Winter Freehold and Band and Albion Consols have obtained good returns during the quarter, likewise several Chinese parties working at Little Bendigo, Sailors' Gully, and Sinclair's Hill.

ALLUVIAL RETURNS FOR THE QUARTER ENDING 31ST DECEMBER 1878.

	oz.	dwt.	gr.
Winter's Freehold Company	1,061	0	0
Band and Albion Consols Company...	1,105	12	0
Llewellyn and Co.	157	6	10
Enterprise Company	10	0	0
New Eureka Company	216	8	11
Co-operative parties, including Chinese, Little Bendigo—approximate quantity	1,000	0	0
Co-operative parties, including Chinese, employed at Canadian, Sailors' Gully, and Sinclair's Hill—approximate quantity...	650	0	0
	4,200	6	21

DIVIDENDS.	£	*s.*	*d.*
Parade Company	300	0	0
Britannia Company	320	0	0
Grand Duke Company	132	9	0
Temperance Company	820	0	0
Baker and Co.	300	0	0
New Dimock's Reef Company	240	0	0
Endeavor Company	414	0	0
City of York Company	432	0	0
	£2,958	9	0

The quantity of water sold during the quarter was 39,748,000 gallons, at ½d. per 1,000 gallons for sluicing purposes, and 4d. per 1,000 gallons for boilers.

SOUTHERN DIVISION.

Mr. George Perry, Mining Registrar.

QUARTZ MINING.

Nothing important has occurred in connection with this branch of mining during the past quarter. The rich stone found by Mr. Fraser at Emperor's Gully, spoken of in my last report, has not yet been traced beyond a few feet from the surface; but a shaft is being sunk to test the reef at a greater depth.

Staffordshire Reef.—The Hopewell Company have been very unsuccessful, the stone crushed proving too poor to pay working expenses; consequently the tributers have thrown up their tribute, and the company have ceased crushing. A number of men are now employed making preparations to prospect the 500-foot level.

The Speedwell Tribute Company have been working at a loss, but better stone is expected.

Kangaroo.—The New Kangaroo Company have struck the lode in the 278-foot level, which is 4 feet wide and gold-bearing, the stone getting better as they drive south.

The New Try Again Company sunk their shaft 40 feet deeper, and opened out on the lode, but finding it still very much broken up and poor, have decided to sink 30 feet deeper.

The Williams' Fancy Company are getting excellent returns; they lately purchased the adjoining claim—the After Dark, 600 feet in length—which has considerably enhanced the value of their property, which now embraces 1,050 feet on the line of reef.

The Nil Desperandum Company are getting good returns; reef very wide and easily worked.

The New Venture Company have completed the erection of winding and pumping plant, and will resume sinking after the holidays. They have decided to sink 100 feet from the present depth (99 feet) before opening out.

Alluvial Mining.

There was a rush to Sawpit Gully, but the discovery turned out to be simply a small patch.

At Daylight Hill several parties have done well, in some instances netting as high as £60 per man per week. The ground is very patchy.

Break-o'-Day.—Turner and party are getting fair returns; Grant and party are doing very little.

Pitfield Plains.—The Nil Desperandum Company have been prospecting for some time; but, unfortunately, without success; therefore they purpose letting the claim on tribute.

The Welcome Company are working a reef-wash, which is paying them handsomely. The gold is very coarse.

BUNINYONG DIVISION.

Mr. Robert M. Harvey, Mining Surveyor and Registrar.

Alluvial Mining.

Nothing new to report. A party is being formed to work the Defence Gutter, in the property of Mr. Innes. The collapse for the present of the drainage scheme is much regretted by all, it being looked upon as the only likely means of causing a revival of mining in the district. The shallow alluvial workings suffer much from the drought.

Quartz Mining.

The Hiscock's line of reef is yielding well, causing the total yield of gold from quartz to exceed former yields for many quarters back. The new veins continue strong and well charged with gold.

There is a sad want of prospecting for gold-bearing quartz, as I feel certain many payable veins exist, especially in the neighborhood of Kitty's Ranges, never prospected, the surface merely scratched for the chance of nuggets.

Water.

Estimated quantity of water from Government reservoir 8,000,000 gallons, for which the sum of **£2 11s.** has been received by the Borough Council of Buninyong.

Lignite.

About 200 tons of lignite have been raised during the quarter; it is intended to subject same to a drying process, and machinery for grinding and drying has been put in order at the Lal Lal lignite works.

SMYTHESDALE DIVISION.

Mr. John Lynch, Mining Surveyor and Registrar.

As will be seen by the annexed returns, the yield of gold for the quarter shows an increase over that of the previous quarter. Indeed a steady improvement has been going on during the last year. This is mainly attributable to the goodness of the Haddon mines, which are the most flourishing mines now in the district, and which have produced 6,000 ozs. in the last three months. Within Smythesdale proper there is nothing of importance doing, especially in alluvial mining. The slight efforts made in that direction are confined chiefly to worked out diggings, where, even at best, much success of a marked or durable character cannot be expected. The main lead from Scarsdale to Cape Clear is nearly deserted; the only companies remaining, and that employ machinery, being the Scarsdale and Little Stream.

At Sprindallah the Golden Belt Company are in treaty for machinery; and until that is obtained and erected no progress can be made with the work of shaft sinking. Much importance attaches to the fate of this claim, for upon it depends the future of deep sinking in the locality in which it is situated.

The Canterbury, at Happy Valley, maintains its usual character for good steady returns, and the same may be said, though perhaps in a lesser degree, of the Waverley, Springdallah Junction, and Morey Freehold. Bottle Hill, Carngham, affords a fair field for steady employment to a good number of the Carngham miners. It has been for sixteen years the main support of the mining industry in that part of the district; and from recent workings opening up well it would appear to be far from exhaustion yet. In many other places within the Carngham division small parties continue to knock out a living, but nothing of a permanent character has been latterly discovered. In quartz mining, however, there are brighter prospects. Hill and party, Stephens and party, McKay and party, have obtained returns which prove that, with proper mechanical appliances, the status of the locality as a quartz-producing one might be considerably enhanced. The Smythesdale Consols (quartz) is worked with a slight profit, although the yield per ton is small. The Brothers, situated at Browns, have had a few trial crushings, which have turned out poorly; but better indications are presenting themselves, and matters are more hopeful as regards the future. With the exception of these few claims, nothing noteworthy in that branch of mining has occurred. Up to about the middle of November surfacing and sluicing operations were carried on, and with good results; but the failure of water supply has since then caused the cessation of all works of that nature throughout the division.

Population is slowly but steadily leaving here—a few for other mining centres, but the greater number for other and more certain pursuits.

The yields from the principal mines are as follow:—

		oz.	dwt.	gr.
Haddon,	Reform	3,260	13	0
,,	Racecourse	1,475	8	0
,,	Trunk Lead	1,341	3	0
,,	Smythesdale Consols	258	12	0

CRESWICK DIVISION.

Mr. James Stevenson, Mining Surveyor and Registrar.

I have the honor to report that the returns for the quarter are good, being nearly 2,000 ozs. and the dividends over £14,000 in excess of the previous quarter.

In quartz, nearly the same quantity of gold has been obtained, but from a smaller quantity of quartz operated upon; the general average is nearly 9 grs. per ton larger than that of the previous quarter.

In alluvial, Cameron's and Ryrie's claims have been worked out; but the yields from the Ristori, Dyke's, and De Murska have been very good

During the quarter one of the diamond drills has been introduced and put to work on Loughlin's Freehold; it does the work much more expeditiously than the old boring machine, and will, when the ground to be bored is of a considerable depth, be much cheaper. The cost of the first bore is not a proper test, as there were several expenses which will not be again incurred; the cost of the second bore, which is now down 200 feet, will be considerably less.

The yields and dividends from the principal claims are as follow, viz. :—

	Yields.			Dividends, etc.		
	oz.	dwt.	gr.	£	s.	d.
Port Phillip Company, Clunes (given in quartz) ...	...			4,981	19	0
South Clunes Company, Clunes (given in quartz) ...	...			3,000	0	0
New North Clunes Company, Clunes (given in quartz)	...			2,056	0	0
Ristori Freehold Company, Springhill	2,631	3	0	5,758	13	0
Dyke's Freehold Company, Springhill	2,480	16	0	6,579	4	6
De Murska Freehold Company, Springhill ...	2,086	18	0	5,247	11	6
Kingston Park Freehold Company, Springhill ...	1,040	9	0	1,422	17	0
Ryan's Junction Freehold Company, Springhill ...	784	10	0	1,073	7	0
Ryrie's Freehold Company, Springhill	134	6	21	309	11	0
Cameron's Freehold Company, Springhill ...	...			1,500	0	0
Bunyan's Freehold Company, Springhill	...			16	13	4
New Hit-or-Miss Company, Red Streak	153	0	8	...		
Approximate yield of small claims	1,000	0	0	...		
	10,311	3	5	£31,945	16	4

The quantity of water used during the quarter was 83,327,000 gallons, at 1½d. per 1,000 gallons.

GORDON SUBDIVISION.

Mr. Thomas Cowan, Mining Surveyor and Registrar.

Alluvial Mining.

No mining has been carried on under this head during the quarter, and no gold obtained.

Quartz Mining.

Egerton.—Black Horse United Company.—During the past quarter the progressive works of this company consisted in connecting the No. 2 shaft with the No. 8 level of the No. 1 shaft by sinking and stoping operations, and in the further sinking of the last-mentioned shaft, which is now a total depth of 880 feet. Driving and stoping operations have been carried on at the No. 5 and No. 6 levels in a very large body of payable stone, varying from 12 to 40 feet in thickness. In consequence of having such a large quantity of stone opened up, the company intend erecting an additional battery of 30 stamp-heads, which will enable them to pass through a greater quantity of quartz. It is expected that it will be completed in about three months. 3,600 tons of stone have been crushed, which yielded 2,900 ozs. of gold, or an average of 16 dwts. 2·66 grs. to the ton, and dividends to the amount of £9,500 paid. The number of men employed is 99.

The Egerton Company have been raising stone from the Sister Rose shaft at a depth of from 530 to 760 feet from a lode varying in thickness from 3 to 7 feet, and from the Quarry shaft at a depth of from 450 to 638 feet from a lode from 4 to 20 feet in thickness. It is stated that the gold obtained from this lode is distributed all through the 20 feet. 8,718 tons of stone have been crushed, yielding 3,658 ozs. 9 dwts. of gold, or an average of 8 dwts. 9·4 grs. to the ton, and dividends amounting to £10,625 paid. The number of men employed is 191.

The South Learmonth and Egerton Amalgamated Company.—No work has been done by this company during the quarter; tenders have, however, been called for the sinking of a new shaft to a depth of 300 feet, which will be commenced early in January.

No work has been done by the All Fours Company during the quarter.

North Black Horse Company.—During the quarter this company have been prospecting their ground at the 295-foot level, but nothing of a payable nature has yet been met with. The number of men employed is 14.

The twelve Chinese (Ah Jack and Co.) are still washing the tailings from the Egerton Company's battery, and state that they have obtained an average yield of 3½ ozs. of gold per week. Ah Ming and Co., consisting of four men, and washing the tailings from the same battery a short distance further down the creek, worked the first nine weeks of the quarter, and obtained 6¾ ozs. of gold, or an average of 15 dwts. per week. This party have since started to wash the tailings from the Black Horse United Company's battery. Willie Young and Co., of twelve men, worked the first eight weeks of the quarter, and then ceased operations for want of water. They state that they obtained 28 ozs. during that period.

Moorabool.—Rose and Shamrock Company.—This company ceased operations on the 19th of November. Since the time that they started operations, viz., 28th July 1878, up to the above date, they only crushed 35 tons of quartz from a lode but a few inches in thickness, which gave a return of 12 ozs. 12 dwts., or an average of 7 dwts. 4·8 grs. to the ton. This yield was obtained during the present quarter. The company intend to resume operations early in January.

Gordon.—Parker's United Company.—Since the date of my last report the north shaft has been sunk in quartz-stone following the dip of the underlay to a total depth of 635 feet. A level was opened out at 630 feet, and driven north and south along the course of the lode. The drive at the 590-foot level has also been extended north to a distance of 80 feet, and south to a distance of 50 feet, the lode in both levels varying from 6 to 10 feet in thickness. 2,203 tons of stone from these levels and from the shaft were raised and crushed, yielding 984 ozs. 8 dwts. of gold, or an average of 8 dwts. 22·5 grs. to the ton.

The 400-foot level at the battery shaft has been continually extended south during the quarter; and at a distance of 170 feet from the shaft a cross-cut has been driven 40 feet to the east, which will be continued until it strikes an eastern lode known to exist in the claim. The number of men employed is 85.

Three men are prospecting near the surface the quartz reef abandoned by the United Miners' Company to the north of Gordon, but have not as yet had a trial crushing. They, however, intend to do so early in January.

Lal Lal Iron Company, Lal Lal.—This company started smelting operations on the 18th October last, and since that time have raised and smelted 258 tons of ore. The number of men employed is 38.

The information with regard to the amount of gold purchased during the quarter was received from the managers of the London Chartered Bank, Gordon, and the Union Bank, Egerton.

STEIGLITZ SUBDIVISION.

Mr. E. Darling, Mining Registrar.

Mining prospects in this district are improving. The quantity of quartz raised is small in comparison with that of last quarter, but in richness far in excess of last returns; the quantity raised is small, owing to the limited number of men employed (small co-operative parties); fully half the number of miners returned are engaged in prospecting for quartz. A new battery of five head of stampers has been erected at Steiglitz to crush quartz and tailings.

Alluvial mining has also improved, as will be seen on comparison with the yields from that source in the last quarter.

The want of water at this season is much felt in all parts of the district, but steps are being taken to obtain a supply at Elaine, which will much benefit that part of the district.

BLACKWOOD DIVISION AND BLUE MOUNTAIN SOUTH SUBDIVISION.

Mr. John F. Hansen, Mining Registrar.

Quartz Mining.

Dividends to the amount of £2,500 have been declared by the Sultan Company during the quarter, which is still the only public company in this district that has as yet proved profitable to shareholders. The Sultan lode is opening up well in the south part of the mine, at the Nos. 5, 6, and 7 levels. The works at No. 8, or 800-foot level, have been resumed, and it is expected that the rich shoot of gold under foot at the 700-foot level will be reached shortly.

The North Sultan Company, after spending a large amount of capital and struggling for many years without finding payable gold in their mine, has collapsed at last, the bank having taken possession of all their machinery. The Sultana Company is still in existence, but the works are at a standstill.

The North Star Company, Union Reef, have of late been very fortunate. The last crushing of 22 tons of quartz yielded an average of close on 4 ozs. of gold per ton.

At Wright's Reef the North Britain Company and the Ida Company (late Red, White, and Blue) are still in full work. The first-named company has been raising and crushing quartz, which left a margin of profit after paying all working expenses; and the latter company have finished the sinking of their main shaft another 80 feet, and are now raising quartz from the 270-foot level.

Alluvial Mining.

The total yield of gold from this branch of mining is a little in excess of that of the previous quarter, but nothing of any importance to report has occurred that I am aware of.

The rainfall during the quarter has been as follows, viz.:—October, 3·88; November, 2·05; December, 1·08; total, 7·01.

No miners are employed in mining for metals and minerals other than gold.

The average quantity of water sold was five sluice-heads, at 10s. per week per sluice-head.

BALLAN SUBDIVISION.

Mr. John F. Hansen, Mining Registrar.

With the exception of a little fossicking, no mining is carried on in this subdivision. The only quartz mine (Mr. Ashton's Freehold) has not resumed work during the quarter.

No water is sold in this subdivision for mining purposes.

BEECHWORTH MINING DISTRICT.

BEECHWORTH DIVISION.

Mr. Alexander Alderdice, Mining Registrar.

The past quarter has been a favorable one as regards the water supply, and the sluicers have taken advantage of it by being diligently at work. Most of the claims will produce more gold this season than they have done for the past two years. Not many have yet washed up, but those that have show very good results. The larger claims will not have finished washing up before the end of March, when the year's results will then be known.

The Rocky Mountain Company's tunnel progresses steadily, and is now in 1,710 feet. Contrary to the expectation of many practical men—who thought that the tunnel would pass through a considerable amount of soft rock—the granite still continues to be hard and solid. The use of rock-boring machines in this tunnel has proved to the mining community the great advantages arising from the application of compressed air and steam for the purposes of rock drilling. The contractors for this tunnel have now been fairly at work for about two years, and anticipate finishing it in another nine months, the average amount driven per month being about 65 feet.

At Eldorado mining is not very brisk. The only claim getting gold—the United Eldorado Company—have not had an average quarter in consequence of having a "run" of sand, &c., which filled up some of their drives, and did considerable damage to the claim. Fortunately the "run" took place on a Sunday, and when no miners were below, otherwise it might have been dangerous to life. The Ovens Gold and Tin Prospecting Company still continue driving through the reef, and the manager believes that payable ground will be found very shortly. It will be a great drawback to mining in this portion of the district if payable ground be not discovered, as Eldorado will then have only

one claim at work on the deep lead. The Wellington Company's plant, &c., have been sold and removed. Many old miners are of opinion that there remains a considerable amount of payable ground in the claim still, although the company failed to find it. The removal of the plant, &c., precludes the possibility of this being tested, except at very great cost.

Quartz mining is dull throughout the division, and although it is well known that reefs exist, tried and untried, that would give fairly remunerative returns, there are at present very few men prospecting the ranges for quartz reefs. The old claims—the Reform, Homeward-bound, and Wallaby—still continue to give good results, but the others are uncertain, and no new finds are reported.

The alluvial miners at Stony Creek have done well, while the water lasted, in the shallow ground, and I hear that another attempt is to be made to bottom the deep ground leading to the Ovens River, where it is thought several of the shallow runs will be found to join the main one.

YACKANDANDAH NORTH SUBDIVISION.

Mr. J. C. Forster, Mining Registrar.

There is no mining as yet in this division.

YACKANDANDAH SOUTH SUBDIVISION.

Mr. J. Smart, Mining Registrar.

I have to report that no quartz claims have been worked during the last quarter. On Twist's Creek Ranges some few of the reefers are prospecting, and others have left the district.

INDIGO DIVISION.

Mr. R. Arrowsmith, Mining Surveyor and Registrar.

Quartz mining shows very decided signs of improvement, the average returns being much larger than usual, although no large parcels of rich stone have been operated upon during the quarter.

A new mill, consisting of 8 stampers, worked by a 14 horse-power engine, has been erected at Chiltern. Both boxes and tables are on the Sandhurst pattern, and are the first of the kind introduced into the division. The mill is owned by Messrs. Burton, Tomkins, and Williams, very old Chiltern reefers.

At Rutherglen, Messrs. Harris and Hollow are erecting a pumping engine of 40 horse-power on their lease on the Great Eastern Reef. They are engaged putting down a vertical and pumping shaft to a depth of 170 feet, when it is intended to cross-cut the reef at a point where it is known a large body of rich stone occurs, which could not be profitably worked without the aid of efficient pumping machinery. It is probable the energy and enterprise of these gentlemen will be well rewarded, and attention directed to this most important locality, where the quartz mining hitherto carried on has been little more than simply "tormenting" the caps of the numerous reefs wherever an outcrop could be found.

The workings of the alluvial claim of the Chiltern Valley Mines Company have been energetically pushed forward during the quarter. From 6 to 9 picks have been constantly employed blocking-out and running main drives. A bar was encountered at the lower end of the workings, beyond which the washdirt, showing fair prospects, dips considerably, necessitating a stoppage of works in that direction until a lower level is put in. This, together with the proximity of the old workings of the Chiltern Valley Company, has somewhat retarded operations, or the quarter's return would have been larger. The total yield for the quarter is returned at 1,466 ozs. 2 dwts.

BUCKLAND DIVISION.

Mr. J. Darbyshire, Mining Surveyor and Registrar.

The Harrietville mines still continue to yield well, the average per man engaged winning the quartz crushed during the quarter being 39 ozs. An increase in the number of miners has taken place at Harrietville. All quartz miners in the vicinity of Bright. An increase of alluvial miners has taken place amongst the Chinese.

Ten sluice-heads of water (an intermittent supply) have been sold during the quarter at from 5s. to 15s. per week per sluice-head.

WANDILIGONG SUBDIVISION.

Mr. T. C. Kaighen, Mining Registrar.

There is nothing new to report in reference to alluvial mining. A few Chinese are doing very well, but no information can be obtained from them as to yield of gold.

The returns from quartz mines show a decided improvement on many previous quarters, the increase in yield of gold as compared with last quarter being almost 50 per cent. The reefs on Upper Morse's Creek have turned out fairly well. Stephens and Co., Gregory and Co., and Vale and Co., have all had satisfactory crushings, which may induce a little more attention to be paid to that portion of the district by prospectors.

Growler's Creek still turns out some very rich quartz, another crushing from Syme's Native Industry giving 5 ozs. to the ton, and the reef easily worked. Lloyd and Cremor have also had a very good commencement, three tons from their reef (the Crusade) giving a little over 16½ ozs. per ton. A large quantity of mining plant is still idle, and there is no prospect of it being utilised for some time to come.

No water sold during past quarter for mining purposes in this subdivision.

ALEXANDRA SUBDIVISION.

Mr. F. H. D. Cotter, Mining Registrar.

Mining is still in a depressed state throughout this subdivision.

In alluvial mining the only claim that has been steadily working is that of the Revival Company, Godfrey's Creek, from which fair returns have been obtained.

Since the dry weather set in, work has been resumed in the Goulburn River, the men engaged, as a rule, making ordinary wages.

In quartz mining there is nothing of interest to report.

The Welcome Company, Tea-tree Creek, and the Just-in-time Company, Gobur, are, I am informed, progressing satisfactorily; but I have been unable to obtain returns from either of work done during the quarter.

No fresh discoveries have been made.

No water sold during the quarter for mining purposes.

DRY CREEK SUBDIVISION.

Mr. J. Pemberton, Mining Registrar.

Quartz mining in this division is advancing. Mr. Meade's reef is yielding well; he is about placing additional crushing plant; ten heads are on the ground to be erected in a short time.

Messrs. Maddock and Folks have a very good show. More ground is taken up adjoining Mr. Meade's lease. Alluvial mines are yielding steady returns.

GAFFNEY'S CREEK SUBDIVISION.

Mr. A. B. Ainsworth, Mining Surveyor and Registrar.

The quartz mines in this subdivision continue to yield profitable returns to their tributers, save where the tribute percentage is exorbitant. The management of the tribute parties in this subdivision is economic and effective, to which their success is mainly attributable.

The A1 company's mine is not looking quite so well as it did a short time ago.

The Wallaby tributers are making excellent wages, with promise of lasting prosperity.

Nothing new has transpired during the quarter of interest to miners.

The alluvial miners have averaged a little over £1 per week for the quarter.

No men are engaged mining for any metals save gold.

No water has been sold during the quarter. Plenty to meet requirements at present.

WOOD'S POINT SUBDIVISION.

Mr. A. B. Ainsworth, Mining Surveyor and Registrar.

I have little progress to report in quartz mining.

The Leviathan Reef continues to yield valuable returns.

The tributers of the Morning Star Prospecting Claim have had their final washing up, and, thanks to energy, intelligence, and good management, the tribute has paid fairly.

Messrs. Axton and Walsh have followed in their footsteps, and are obtaining remunerative yields.

Machinery is being erected on the North Waverley, which reef is expected to yield good wages to a party of working men.

The alluvial miners have averaged for the quarter 32s. 6d. per week.

There are no miners working for other metals than gold in this subdivision.

There is still sufficient water for our requirements, and none is being sold.

BIG RIVER SUBDIVISION.

Mr. A. B. Ainsworth, Mining Surveyor and Registrar.

I have nothing new to report of this subdivision.

The only two leases extant are at work—the Luck's All affording bare wages; the Londonderry paying its enterprising owners well.

The alluvial diggers have earned rather higher wages than usual, to wit at the average rate of about 16s. per week.

No water sold. When sold, 4s. per sluice-head.

No mining save for gold only.

MITTA MITTA NORTH SUBDIVISION.

Mr. John C. Forster, Mining Registrar.

I have to report that the yield of gold for the quarter ending the 31st December 1878 is 100 ozs. in advance of last quarter. The pyrites works spoke of in my last has not been at work since. Messrs. Wallace and Co. have let their claims to Mr. C. Dyring on tribute, and he is working for copper.

Cotton-tree Creek, which I drew your attention to in my last, is turning out well; two small parcels of quartz brought here to be crushed have yielded 1 oz. 10 dwts. per ton, and since then several new reefs have been found with gold visible to the naked eye, and expected to go 3 ozs. per ton. Several machine sites have been taken up, and two batteries are on the way to this creek.

MITTA MITTA SOUTH SUBDIVISION.

Mr. D. H. Gilmore, Mining Registrar.

There is nothing unusual to report this quarter in reference to the alluvial mining.

Several gold-bearing quartz reefs have been discovered, but owing to there being no crushing plant at work, they are not opened up to any extent.

The contractors have nearly finished the road between this and Granite Flat, so that the battery, which I previously reported, will soon be taken to its destination and erected.

Mr. McLeod, who discovered a reef which shows gold very freely, has suspended his claim, to arrange for the erection of machinery.

There are gold-bearing reefs found on the surface almost every week, so that when the machinery is erected there is no doubt but that quartz mining will go ahead for some time in this subdivision.

JAMIESON SUBDIVISION.

Mr. W. H. Edwards, Mining Registrar.

The Sailor Bill's tribute party have had one crushing during the past quarter, and have now about 100 tons of stone to grass, but are unable to crush owing to the want of water.

The Gleeson's Lease tributers washed up last week for the first time, with payable results.

The Venture Company have had two crushings during the past quarter, the last one enabling them to pay a small dividend.

No miners are employed mining for other metals or minerals than gold in this subdivision.

No water has been sold during the quarter for mining purposes.

SANDHURST MINING DISTRICT.

SANDHURST DIVISION.

Mr. N. G. Stephens, Mining Registrar.

There has not been so much excitement during the last three months, but mining affairs are in a healthy condition.

Less quartz has been crushed, but the average yield is very good, 9 dwts. 20 grs. per ton; and the workings generally have paid as good or better dividends than usual.

Deep sinking is carried on with success; but it is the opinion of many who know this goldfield well that cross-cutting has hitherto been unjustifiably neglected. If this opinion is acted on, and well carried out, I have no doubt that good payable discoveries will be the result.

The quantity of water sold for mining purposes during the last quarter was 46,621,000 gallons.

Further particulars respecting some of the quartz, &c., crushed during the past quarter included in the tables prefixed to these reports:—

Name of Company.	Where Quartz, &c., were obtained.	Quantity crushed.	Total Yield of Gold.	Average Yield of Gold per Ton.	Depth at which the Quartz was obtained.	Original Water-level.	Width of Reef, &c.
		tons.	oz. dwt. gr.	oz. dwt. gr.		feet.	
Garden Gully United ..	Garden Gully Reef ..	3,813	4,943 2 0	1 5 22·26	600 and 745 feet ..	..	From 1 feet to 6 feet
Victory	Garden Gully Reef ..	664	360 12 0	0 10 20·67	750 feet	..	From 1 foot to 3 feet
Bird's Reef	Bird's Reef	3,870	2,389 3 8	0 12 8·33	100 to 400 feet ..	50	From 1 foot to 40 feet
Albion United	Bird's Reef	411	237 3 17	0 11 13	300 feet	50	From 4 feet to 12 feet
Bendigo and Melbourne ..	Bird's Reef	356	181 2 0	0 10 4·18	400 to 600 feet ..	50	From 1 foot to 3 feet
Betts and Walker ..	Perseverance Reef ..	285	204 10 7	0 14 8·44	100 to 300 feet ..	97	A series of spurs at various depths
New-chum and Victoria ..	New-chum Reef ..	4,524	3,411 13 0	0 15 1·97	Surface to 1,100 feet	..	Various
Lazarus	New-chum Reef ..	2,491	1,921 15 0	0 15 10·30	Surface to 900 feet	140	From 6 inches to 40 feet
Lazarus No. 1	New-chum Reef ..	591	422 7 0	0 14 7·02	Surface to 900 feet	140	From 2 inches to 45 feet
North Old-chum ..	New-chum Reef ..	608	261 4 0	0 8 14·21	400 to 1,180 feet ..	..	From 2 feet to 6 feet
Old-chum	New-chum Reef ..	318	129 16 0	0 8 3·92	960 feet	..	From 1 foot to 3 feet
C. C. Freehold	New-chum Reef ..	634	141 12 0	0 4 11·20	460 and 300 feet ..	..	About 8 feet
Shenandoah	New-chum Reef ..	2,333	600 19 19	0 5 3·64	676 feet	About 90	About 2 feet. Erecting ten additional head of stamps
Victoria Reef G. M. ..	Victoria Reef ..	4,506	2,318 2 0	0 10 6·93	436 to 976 feet ..	190	From 2 inches to 50 feet. Struck a new reef 5 feet thick at 1,100 ft.
South Victoria Amalgamated	Victoria Reef ..	511	229 17 0	0 8 23·90	540 to 700 feet ..	..	
Victoria Consols ..	Victoria Reef ..	1,316	265 7 2	0 4 0·78	550 and 784 feet ..	..	Various
Hercules and Energetic ..	Victoria Reef ..	3,901	1,748 5 0	0 8 23·11	550 to 1,120 feet ..	..	From a few inches to 6 feet or 7 feet, principally spurs
Catherine Reef United ..	Catherine Reef ..	2,160	1,267 19 12	0 11 17·77	Surface to 800 feet	130	Small veins
Central Catherine ..	Catherine Reef ..	1,433	560 18 12	0 7 19·88	520, 640, and 700 feet	180	About 3 feet
Duchess of Edinburgh ..	Devonshire Reef ..	753	309 13 0	0 8 5·38	300 feet	100	Spurs
Extended St. Mungo ..	St. Mungo Reef ..	235	76 16 0	0 6 12·86	300 to 360 feet ..	..	From 4 inches to 2 feet
North Johnson's ..	Johnson's Reef ..	1,839	1,312 5 9	0 14 6·52	Surface to 480 feet	..	From 6 inches to 3 feet
Rose of Denmark ..	Johnson's Reef ..	1,166	625 11 0	0 11 7·48	Various	..	Various
Johnson's Reef G. M. ..	Johnson's Reef ..	3,889	978 13 0	0 5 0·79	Surface to 680 feet	..	Chiefly spurs
Great Extended Hustler's	Hustler's Reef ..	2,808	1,027 0 0	0 7 7·55	400 to 800 feet ..	109	20 inches at 800 feet
Extended Hustler's Freehold	Hustler's Reef ..	509	56 19 5	0 2 5·71	230 feet	..	6 inches to 2 feet
Hibernia	Hibernia Reef ..	390	200 0 6	0 10 6·17	250 feet	50	2 feet to 4 feet
New Moon	Moon Reef	1,305	574 3 12	0 8 19·19	180 to 300 feet ..	110	From 6 inches to 12 feet
Pascoe and Simmons ..	Lightning Reef ..	1,165	773 3 12	0 13 6·56	About 60 feet ..	..	From 14 feet to 20 feet
United Perseverance ..	Perseverance Reef ..	144	94 8 17	0 13 2·78	312 feet	..	About 1 foot
PYRITES.							
Garden Gully United ..	Garden Gully Reef ..	60	405 8 0	6 15 3·20			
Victory	Garden Gully Reef ..	37	75 3 12	2 0 15·24			
Great Extended Hustler's	Hustler's Reef ..	21	69 11 0	3 6 5·71			
South Victoria Amalgamated	Victoria Reef ..	13	38 8 0	2 19 1·84			
Victoria Reef G. M. ..	Victoria Reef ..	92	43 9 0	1 7 3·75			
Shenandoah	New-chum ..	19	44 5 14	2 6 14·63			
New Moon	Moon Reef	2	14 1 0	7 0 12			

NOTE.—The above figures are not to be added to those in the tables prefixed to these reports. They are already massed and included in the tables.

KILMORE DIVISION.

Mr. James W. Osborn, Mining Registrar.

There is nothing fresh to report as having occurred in mining matters during the quarter in this division.

HEATHCOTE DIVISION AND WARANGA SOUTH SUBDIVISION.

Mr. E. C. Bell, Mining Registrar.

With the exception of the crushing at the Alabama and Butler's Reef Company, Caledonia Gully, Heathcote, which yielded a return of 3,025 ozs. from 1,250 tons of stone, mining matters in this division and subdivision appear to be in the same state as at the date of my last report. At Redcastle there are a number of reefs abandoned, all payable, if worked in a systematic manner. The crushing machines in that locality are at present standing idle for want of water.

No water sold during the quarter for mining purposes.

WARANGA NORTH SUBDIVISION.

Mr. Henry Hicks, Mining Registrar.

Alluvial Mining is very dull; the number of miners employed is about the same as last quarter.

Quartz Mining.—The yield of gold from the various crushings throughout the subdivision has been satisfactory. It will be seen on reference to table of yields that some parcels of very rich stone have been crushed.

Antimony.—No work has been done in this class of mining.

MARYBOROUGH MINING DISTRICT.

MARYBOROUGH DIVISION.

Mr. P. Virtue, jun., Mining Registrar.

Alluvial Mining.

At the Alma, Chinaman's Flat, and Carisbrook, there has been a decided and general improvement in mining during the quarter. A large portion of the ground formerly held under lease at the Alma, and which was forfeited, has been taken up by the holders of miners' rights. The men who have occupied the ground are practical miners, who will doubtless be able to work it to advantage, and with success.

The operations of the Bismarck Company, at the Lower Alma, and of the Duke, at Timor, are upon a very costly and extensive scale, and prove conclusively that a large measure of confidence is still reposed in our principal alluvial mines. The Bismarck mine will soon be in full working order; the chief difficulty against which the company have now to contend is the water, which of late has become unusually heavy.

The principal mines at Carisbrook—the Woolbrook, Goldbrook, and Carisbrook Consols—are progressing favorably. They employ a large number of men. The extensive operations carried on in those mines will doubtless result in developing the mineral resources of the district. The splendid nugget of solid gold, weighing 32 ozs., which was found in the Carisbrook Consols, at a depth of 65 feet from the surface, has attracted much attention, and has afforded an additional stimulus to mining operations at Carisbrook. Should the country between Carisbrook and Craigie, and between Craigie and Majorca, prove auriferous, which I have no doubt it will, then an immense field of mining industry will be opened up in this district. I believe that mining here is as yet merely in its infancy, and that already we are upon the threshold of a genuine revival of mining prosperity.

Two alluvial prospecting claims, situate at Moonlight Flat and Humbug Gully, Chinaman's, and two extended alluvial claims, situate at the Alma and the Lower Alma, were registered during the quarter. The aggregate area of the extended claims is ten acres. The Dalmatian Claim, at Moonlight Flat, was registered by Vincent Zurich. Prospect obtained—half an ounce from four loads, of coarse, heavy gold, one specimen of which weighed 4 dwts.; depth of sinking, four feet. The Melbourne Prospecting Claim, at the top end of Humbug Gully, and which was found on a lost lead of gold, was registered by George Perry. Prospect obtained—2 dwts. to the load; depth of sinking, 22 feet. There is a considerable extent of new country in the neighborhood of both claims.

The following is a statement of the gold obtained from the principal alluvial mines in this division during the quarter:—

	oz.	dwt.	gr.
Duke, Timor	2,011	3	0
Count Bismarck, Lower Alma	369	7	18
Carisbrook Consols, Carisbrook	218	19	22
Little Band of Hope, Timor	136	10	6
Argus, Chinaman's Flat	94	0	0
Gladstone, Alma	48	7	0
Seaham, Alma	38	15	0
	2,917	2	22

Dividends as under have been paid during the quarter by the companies named:—Little Band of Hope, Timor, £493 4s.; Seaham, Alma, £600. Total, £1,093 4s.

Quartz Mining.

The Bristol Hill mine is still looking well, and Messrs. Anderson Brothers, the enterprising proprietors, are sparing neither labor nor expense to make it a thorough success. From 1,150 tons of stone 536 ozs. 9 dwts. of gold were obtained, or an average of nearly half an ounce per ton. Over seventy hands are regularly employed in and about the mine, and the amount paid in wages exceeds £150 a week. The mine lies close to the town, and most of the men employed in it live in the town.

No quartz was raised from the Cambrian mine, at Mosquito, during the quarter, as the tribute party formerly engaged gave up their tribute, and the owners have not yet succeeded in finding another party to take their place.

But the result of the several parcels of quartz which were obtained during the quarter from Mosquito, Blucher's, Chinaman's, Havelock, and the surrounding neighborhoods, and crushed at the public crushing machines, proves beyond doubt that our quartz reefs are fairly productive. Thus, from 860 tons of quartz crushed for the public at the Cambrian battery, 617 ozs. 15 dwts. of gold were obtained, or an average of 14 dwts. 8 grs. per ton; from 268 tons crushed at Messrs. Penny and Clausen's battery, 156 ozs. 17 dwts. were obtained, or an average of 12 dwts. 18 grs. per ton; while from 473 tons crushed at the All Nations battery, 292 ozs. 13 dwts. 9 grs. were obtained, or an average of 12 dwts. 9 grs. per ton. These facts speak for themselves.

The Telegraph United Company, Telegraph Reef, have been chiefly engaged during the quarter in doing dead work. The main shaft has been sunk to a depth of 270 feet, and the men employed are now driving for the reef. The Queen Victoria Company, Mariners' Reef, are proceeding with the erection of their plant, and will soon be ready to begin work. Wardley and party, of Leviathan Reef, Chinaman's Flat, crushed 38 tons for a yield of 38 ozs. 10 dwts. I have been unable to procure any information from Messrs. Oswald and Noell respecting their pyrites works at Mariners' Reef, but I understand that the result of their operations is similar to that of the preceding quarter.

I have already reported on the splendid nugget, of nine pounds weight gross, found on the 18th October by Michael Fitzharris and party, in their claim at Havelock, at a depth from the surface of three feet. The nugget was mixed with quartz, but it gave 84 ozs. of pure gold.

MAJORCA SUBDIVISION.

Mr. P. Virtue, Jun., Mining Registrar.

Mining affairs in this subdivision have not much improved since the date of my former report. The most of the claims are either idle or unproductive. No work has been done in the Perseverance mine since the 12th of October. The company are now engaged in erecting machinery. Forbes' Union Company are sinking their shaft to a depth of 66 feet through hard rock. The Grand Junction Furnishing Company ceased to work their mine on the 6th November, as the ground was proved to be not payable.

The following is a statement of the gold obtained from the principal alluvial mines in this subdivision during the quarter :—

	oz.	dwt.	gr.
Perseverance (Ellis and party), Majorca	18	10	19
United (Parfoot and Co.), Rocky Flat	9	0	0
Logan's Paddock, McCallum's Creek	17	0	0
	44	10	19

AMHERST DIVISION.

Mr. W. T. Casey, Acting Mining Registrar.

The Union Quartz Mining Company, Churchill Reef, Amherst, have been sinking a new shaft to a depth of 180 feet, and have been erecting new steam machinery.

The New Briseis Company, Amherst, have baled out their old shaft to 145 feet, have driven through the reef, and lifted about 70 tons of stone. Reef averages about 6 feet wide. Intend crushing when 200 or 300 tons are raised.

The amount of water sold during the quarter is £31 10s. 6d. worth.

AVOCA SUBDIVISION.

Mr. D. O'Leary, Mining Surveyor and Registrar.

In alluvial mining a small rush has taken place in the low ranges close to Lamplough, and about one mile north-easterly from the Clare Castle hotel. The depth of sinking is from 8 to 15 feet, and the washdirt from 2 to 3 feet thick; average yields from 6 to 7 dwts. per load. The width of the "run" is about 100 feet, and about seventy men have been at work. At Homebush, in the Working Miners' claim, prospects have been improving in both northerly and southerly directions, 962 ozs. 18 dwts. have been obtained during the quarter.

Quartz Mining.

In quartz mining in the Pyrenees Tunnel, Percydale, driving is still being carried on, and the tunnel is now about 920 feet in length. There has been no change calling for special mention in the portion lately driven through.

A new lease has been taken up on Barnes' Reef, and a new company is being formed to work the ground.

DUNOLLY AND TARNAGULLA DIVISIONS.

Mr. W. G. Couchman, Mining Surveyor and Registrar.

Dunolly Division.

The quartz mining industry has improved very much in this division during the quarter, more especially at Goldsbrough, on the line of reef being worked by the Queen's Birthday Company. This company have been very successful during the quarter, 4,143 tons of stone crushed having yielded upwards of 4,921 ozs. of gold. They have been driving Nos. 3 and 4 levels and stoping the backs. They have also been erecting three new steam plants, viz., pumping, winding, and crushing, and have now seven steam engines and 47 heads of stamps erected. They have declared three dividends of £1, 5s., and 10s. respectively, or a total amount of £10,500, during the quarter, and the mine is now looking very promising.

The South Birthday Company have completed the erection of their pumping and winding machinery, and have been sinking the shaft deeper—the depth at date being about 190 feet.

The King's Birthday Company are erecting very good and powerful pumping and winding machinery, which is expected to be completed in about fourteen days, when the sinking of the shaft will be resumed.

The Royal Birthday Company is a new company incorporated to work a lease south of the leases of the South and King's Birthday Companies. They have a shaft down about 90 feet, and are sinking deeper, and are very sanguine as to results, gold equal to about 7 dwts. per ton having been got from shallow workings in their lease a number of years ago.

The North Birthday Freehold Company, as its title denotes, is a company incorporated to work some freehold land north of the Queen's Birthday Company. They have been driving from a shaft of the Queen's Birthday Company at a depth of 300 feet, and have cut a reef from 2 to 3 feet wide, showing gold in good quantities. They are now sinking an air shaft to ventilate the mine.

The Curran's Freehold Company is another new company formed to mine some freehold land north of the North Birthday Company; they are now sinking a shaft in their ground. Several other leases have been taken up in the locality, which is a very important one, and bids fair to be more important, there being ten steam engines and upwards of 50 heads of stampers erected on the different leases.

Queen's Reef Company, Moliagul, have been driving No. 2 level (170-foot), and also one at 130 feet from the main shaft, in which they have cut a body of stone about 4 feet thick, with good prospects. They have purchased an engine, boiler, and 20 heads of stamps, and are now removing and erecting the same.

Sydenham Company, Sydenham Reef, have driven a cross-cut at 200 feet, and cut the reef 135 feet from the shaft, and are now driving a level on the stone, and rising up to the old workings. A small crushing of 15 tons gave a yield of 17½ dwts. per ton, but two tests of samples of the pyrites saved from the crushing give an almost incredible return of gold (about 150 ozs. per ton) as the result.

Beaconsfield Company, Harvest Home Reef, have had first-class prospects from the two reefs in various parts of their lease, some of the prospects giving ¼ dwt. to ½ dwt. per dish of rubble, and have also got very good specimens. The prospects being so encouraging, the company are about to incorporate under the Mining Companies Act, and intend to sink a main shaft and erect crushing machinery, as there are large bodies of gold-bearing stone in their lease. Several co-operative parties are at work on different reefs, sinking shafts, &c., notably on the Harvest Home, Kentish, and Sheepshead lines.

In alluvial mining there is not much noteworthy to report. The Caledonian Company, Burnt Creek, are extending their reef drives and constructing jump-ups. They have already opened up about 600 feet of cemented washdirt, and are now erecting engine, boiler, and 20 heads of stamps, to crush the same.

TARNAGULLA DIVISION.

Quartz mining in this division has been more lively during the quarter, and bids fair to progress in the future. The Yorkshire Company, Watts Reef, have erected very good and substantial steam pumping and winding machinery, have pumped the water from the mine, put in a cross-cut, and cut a large reef carrying gold in very payable quantities. The prospects are exceedingly good. Other companies are in process of being formed on this and other lines of reef, and greater activity may therefore be expected.

Nothing of importance to note in alluvial mining.

INGLEWOOD DIVISION.

Mr. W. H. Coffey, Mining Registrar.

ALLUVIAL.

No improvement has taken place during the quarter.

QUARTZ.

At McIntyre's, the Dalmatia Gold Mining Company are erecting machinery, and the Maximilian Gold Mining Company are still sinking their shaft.

On the Jersey Reef the prospects of the Little Gem Company are good.

Active steps are being taken to form a company to work on the Maxwell Reef.

WEDDERBURN DIVISION.

Mr. John Reach, Mining Registrar.

There is nothing fresh to report as to mining operations in this division since my last; water is getting very scarce, especially for mining purposes, and a great number of miners are employed in harvesting.

No water stored for sale in this division.

REDBANK SUBDIVISION.

Mr. D. O'Leary, Mining Surveyor and Registrar.

Nothing worthy of note has occurred during the quarter in this subdivision.

No water has been sold for mining purposes during the quarter.

ST. ARNAUD SOUTH SUBDIVISION.

Mr. W. G. Couchman, Mining Surveyor and Registrar.

Mining still continues in a very depressed state in this subdivision, and there is nothing of importance to note either in quartz or alluvial mining during the quarter.

ST. ARNAUD NORTH SUBDIVISION.

Mr. W. G. Couchman, Mining Surveyor and Registrar.

There is nothing noteworthy to record in quartz or alluvial mining during the quarter, matters continuing in a very dull condition.

CASTLEMAINE MINING DISTRICT.

CASTLEMAINE DIVISION.

Mr. T. L. Brown, Mining Surveyor and Registrar.

In alluvial mining there is an increased number of men anxious to obtain a supply of water for sluicing purposes from the Coliban contour-race; the extensive area of abandoned auriferous ground of older, newer, and post pliocene formation promising years of steady remunerative labor. The total returns of water sold for sluicing during the past twelve months is 383,958,000 gallons, or only 7,383,800 gallons per week; whereas, if the five million gallons per day was made available, reservoirs formed to conserve what now runs to waste, and greater care taken in its use, a much larger number of men would find employment.

There is only one public or registered company remaining in this division, viz., the Eureka Consols, who have an extensive mine and plant. In their bottom level the gold is so associated with pyrites as to render it difficult to extract, and their last yield of 7 ozs. 8 dwts. of gold to the ton of pyrites shows the necessity of greater care in saving pyrites than is usually adopted in our quartz mines.

The closing of so many of our large mines and machinery has obliged the miners to prospect for themselves; consequently the reefs are better prospected than for some time past; the best yields are McWalters, Burn's Reef, 65 ozs. 6 dwts., from 20 tons, and Starkey, 23 ozs. 4 dwts., from 24 tons.

On the Nuggety Reef the newly-erected machinery was started on 23rd November, since which the water in the mine has been reduced from 53 to 149 feet from brace.

The quantity of water sold during the quarter for sluicing purposes was 121,606,000 gallons., at ½d. per 1000 gallons; for quartz crushing purposes was 500,000 gallons, at 4d. per 1000 gallons.

FRYER'S CREEK DIVISION.

Mr. Mark Amos, Mining Surveyor and Registrar.

POPULATION.

The population returns are only slightly altered since last quarter, no great inducements being held out to our miners for migrating to other goldfields.

ALLUVIAL MINING.

The returns for the past quarter are quite up to the usual average, notwithstanding the idea of the gradual exhaustion of our alluvial goldworkings in this neighborhood. A slight rush took place in the locality of the Hard Hills, Strangways, but of not sufficient importance to require special notice.

Mein's Freehold Gold Mining Company have been very active and successful of late, working on private property at Guildford; there are now 42 men employed, the result of the last three months' washing being 436 ozs. 17 dwts., from 3,600 loads of dirt, which gives an average of nearly 2½ dwts. to the truck. The company have still a large area of ground to operate on, and considering the lead is well defined, and known to traverse the Guildford basalt plains, some important discoveries must eventually be made in the direction of Newstead and Strangways. This opinion is shared in by miners residing in the vicinity.

Sluicing operations have been carried on with a fair amount of energy and success, but there is no necessity to note any individual instances.

The Vaughan district still continues to support its usual population, but mining progress is very slow in that neighborhood.

QUARTZ MINING.

In this branch of mining there has been considerable improvement, the total yield exceeding last quarter by about 500 ozs., but the extra yield is confined to two companies, viz., Rowe Brothers and the Ferron's; these companies can succeed with a low average, in consequence of their splendid mechanical appliances, the vast quantity of stone at command, and the economical mode of working the ground. The Ferron's (New Era Company) employ 67 men and boys, and have used during the past twelve months 4,000 tons of firewood, at a cost of £1,100; they have raised during the past three months 5,477 tons of quartz from the 380-foot level, averaging 3 dwts. 14 grs. per ton. Rowe Brothers have crushed 1,508 tons of quartz, averaging nearly 9 dwts. to the ton, from the 175-foot level, and the general prospects of the mine are highly favorable; the reef is from 2 to 8 feet in width, and no signs of diminution. This company, in their Ferron's Reef claim, are now driving at the 300-foot level, but are not progressing so satisfactorily as might be desired.

There are several minor companies or associations who have ground capable of yielding 3 to 4 dwts. to the ton, but inefficient working and want of capital is a great drawback to the proper development of some of our smaller claims. With amalgamation and skilful management, a large extent of what appears to be unprofitable ground could be made remunerative. Between the Anglo Quartz Mining Company and Wattle Gully, Chewton, it is well known that innumerable auriferous quartz leaders intersect the country, and yet very little attention is directed to this portion of the Fryer's division; although the ground has been prospected, there is no reason to travel 200 miles from Fryerstown to find a payable reef; and yet there is a great deal of indifference displayed by business men and those whose interests are identified with mining pursuits; but the time will soon surely arrive when this portion of the Castlemaine district will receive that attention which it undoubtedly deserves.

NOTE.—During the past year 26,986 tons of quartz have been crushed, yielding 6,143 ozs., averaging 4 dwts. 13·26 grs. per ton.

HEPBURN DIVISION.

Mr. Thomas Hale, Mining Registrar.

Again it will be seen by the tabulated statements that our alluvial gold is increasing considerably over the quartz, and miners appear to be satisfied with results.

Water has not been plentiful, and but from 40 to 50 sluice-heads have been in use constantly from the races for sluicing alluviums, three shifts of eight hours per day.

In quartz claims, since the erection of Iveson's Company's engine, at Keep-it-dark, the old claims hereabout have been pegged out, and some of them secured under bye-laws and applications for leases for speculative purposes, some for *bonâ fide* work.

Walker's celebrated Last Chance gave at a trial crushing from the 100-foot level 2½ ozs. gold average per ton.

A splendid prospect was obtained from Paul Wissing's claim; cross-cuts are being put in at 200-foot level.

Iveson's Company's claim, at 140-foot level, are driving southwards on the lode; 300 tons gave 154 ozs. of gold.

The Rising Star, at Blind Creek, are sinking a new main shaft. Down 160 feet, to be sunk to 200; the prospects are excellent.

The Specimen Hill Company are about to sink the main shaft 150 feet deeper, present depth being 520 feet. The plant and machinery were much injured by bush fires on 1st January instant.

The Argus Company are putting in pumps and lifts, and are otherwise preparing to work the bottom levels.

Quantity of water sold during the quarter:—40 to 50 sluice-heads, three shifts of eight hours each per day, water being very scarce at this season of the year.

TARADALE AND KYNETON SUBDIVISION.

Mr. Stephen Dorman, Mining Registrar.

The yield of gold from quartz during the past quarter is considerably below the average, the returns in many instances not paying expenses.

In alluvial there is a marked improvement. The striking of payable gold in Tucker's paddock has been the cause of many claims being taken up; the sinking is through basalt rock, from 80 to 140 feet; 5 ozs. of gold have been taken from the bottom of the first shaft down.

The Malmsbury Confluence is one of the best claims in the district; its depth is 260 feet; within a few days a large number of hands will be put on.

The Victoria and Comet tribute party have done very little during the past quarter; it is expected they will stop in a few weeks from hence.

At Lauriston, as last reported, mining is very dull; several claims have stopped for want of water.

TARRANGOWER DIVISION.

Mr. Robert Nankivell, Mining Surveyor and Registrar.

QUARTZ MINING.

The German Reef Tribute Company.—This company's prospects have improved very much during the past quarter; there is now no doubt but that the new reef recently discovered is the same that was so profitably worked sixteen years ago, but was then lost; it was cut off by a dyke, and thrown south 81 feet. The first crushing from the new discovery gave 59 ozs. 17 dwts. from 27 tons of stone. There is another crushing on hand, but it is not ready for this report.

Another company, known as the Duke Tribute Company, have taken the Wellington mine for a term of five years, having been induced to do so by the prospects in the Linscott's Company mines adjoining on the south, where a new reef 10 feet thick has been struck at the 550-foot level; this new make has been opened up about 40 feet in length, and the yield has been over 1 oz. of gold per ton. The Duke Company started baling about the middle of November, and have now drained the mine, which is 606 feet deep. There was over 400 feet of water in the mine when they started.

The Eaglehawk Limited Tribute Company started baling on the 22nd of September last, and are still struggling with the water, but it is considered that they have got over the worst of it, as they have got below the old workings, where a large body had accumulated; they have now only two shafts and a few drives to drain.

The North British mine is now opened at the bottom (400-foot level), about 187 feet north from the cross-cut, and 120 feet south, and a portion of the back stoped 40 feet in height; tenders are called for driving another 100 feet north. The 230-foot level is also being pushed on northward for the purpose of draining and opening up the old Independent mine, which can be worked by the machinery now on the North British mine.

ALLUVIAL.

In alluvial mining nothing has transpired worth noticing in this report.

No water sold.

ST. ANDREW'S DIVISION.

Mr. Alfred Armstrong, Mining Surveyor and Registrar.

In alluvial mining there are still nearly the same number of persons employed as usual, with about the same average success. I am informed that the Big Pat's Valley, Upper Yarra, has recently given indications of a lead of gold on the western side of the stream which will give employment to a considerable number of miners.

QUARTZ.

Very little change has taken place in this branch of mining since last quarter.

Owing to the dam of the crushing machine worked by water-power at Anderson's Creek having been damaged during the winter, this, the only public machine, was not available, and there are now upwards of 3,500 tons of diorite to be operated on, the returns for which legitimately belong to this quarter.

The Pig Tail machine has only recently started, and therefore no returns have been received from that company.

The Oram's Reef Company, Panton Hill, has lately been re-organized, and could therefore only furnish a very small return.

At Reefton, the prospects of the Reefton Company are so good that contracts are being entered into for a tunnel, which will command a much greater depth of reef.

At Hoddle's Creek, a battery to work by water-power is under construction; until the completion of which only anticipations can be indulged in as regards the reefing prospects of this locality.

BLUE MOUNTAIN NORTH SUBDIVISION.

Mr. Graham McPherson, Mining Registrar.

The only mining during the quarter has been done by fossickers and sluicing parties. Some of them have been earning good wages. No companies have been at work; but a quartz claim near the boundary of the subdivision, in the Blackwood district, has had a crushing which gave a return of upwards of 4 ozs. per ton; and as the lode looks well coming northwards, there is little doubt but other claims will shortly be taken up near Newbury.

ARARAT MINING DISTRICT.

ARARAT DIVISION.

Mr. Thomas Foyster, Mining Registrar.

Mining throughout the division during the quarter has been principally prospecting, with poor results.

At Mitchell's Reef, the machinery, pumps, and tank chamber have been completed, and the mine drained, so that after the holidays more substantial progress is anticipated.

The Try Again Company, after expending much time in testing hard ground on the water-level, opened out at 190 feet, and have followed the reef 20 feet to the south, but at present without coming upon payable stone of any thickness.

Having sunk and timbered over 60 feet, the Rescue Company have prepared the surface for the erection of machinery; pending the arrival of which, the claim is now at a standstill.

One rush took place near the first mile-post at Mullock Bank, but nothing remunerative has been traced away from the prospector, whose yield varies from ½ dwt. to 3 dwts. per tub.

PLEASANT CREEK DIVISION.

Mr. H. C. Bate, Mining Surveyor and Registrar.

The total yield of gold and the average are very nearly the same as last quarter's; but for the unfortunate accident at the Oriental Company's mine, both would have been materially increased.

New winding gear has been erected at the Magdala Company, and new gear is also being erected at the Oriental and 2, 3, 4, and 5 South Cross Companies.

The great fall off in the yield of gold in this division is principally attributable to the lesser amount drawn from the Pleasant Creek Cross Reef Company's mine as compared with former periods.

The quantity of water sold during the quarter in this division was 1,130,000 gallons.

BARKLY DIVISION.

Mr. H. C. Bate, Mining Surveyor and Registrar.

There is nothing of interest to report respecting mining operations in this division during the past quarter. No new finds have been made.

RAGLAN DIVISION.

Mr. C. W. Minchin, Mining Registrar.

Throughout the district generally mining continues to be dull. At Waterloo, the Hobart Pasha Gold Mining Company have recently erected machinery on their leased ground, and have got a shaft sunk about thirty feet. This will be a matter of great advantage to the company already at work there, viz., the New Victoria Gold Mining Company, who have had to contend against a large flow of water hitherto, with their own engines alone. The latter company has done fairly during the quarter.

The co-operative party referred to in my last report have, for some time past, completed the erection of their machinery, and are now, I understand, engaged in prosecuting drives. Throughout the quarter very little rain has fallen, and water is becoming very scarce, especially for mining purposes.

GIPPSLAND MINING DISTRICT.

OMEO SUBDIVISION.

Mr. W. Phipps, Mining Registrar.

Quartz mining at Swift's Creek is improving; but there is no change in the alluvial workings. The Duke of Cornwall Company suspended operations during the quarter ended the 30th September, and are now about to let the machine and reef on tribute.

In alluvial mining a change for the better has taken place, which has been caused by the rush to Sassafras Creek. There are now about seventy-five European miners on the ground, and all appear to be earning fair wages. This is likely to prove a permanent and extensive goldfield.

The Mining Department are now causing a track to be cut to Sassafras Creek under the supervision of Mr. Mining Inspector Whitelaw, which will prove a great boon to the miners in the locality.

No water sold in this division.

MITCHELL RIVER SUBDIVISION.

Mr. John Grimes Peers, Mining Surveyor and Registrar.

I have no change to report.

No quartz mining is being carried on in this subdivision.

The alluvial miners on the Nicholson and Tambo rivers divide their attention between their creek and river claims and their 19th section selections.

The silver and lead mines at Buchan are not being worked.

Gold is the only mineral searched for in this subdivision.

No water is sold in this subdivision for mining purposes.

BOGGY CREEK SUBDIVISION.

Mr. J. Fletcher, Mining Registrar.

During the quarter gold digging has been very depressed. Water has been extremely scarce, and miners had to leave tributaries and small creeks for want of water.

CROOKED RIVER DIVISION.

Mr. James Travis, Mining Registrar.

I have little of a gratifying nature to report in regard to quartz mining during the present quarter. The quantity of stone crushed is small, and the returns are not so good as was anticipated.

A reef called the "White Top" (discovered on the Twenty-five-mile Creek some years ago) has been re-occupied, and a trial crushing of 20 tons gave an average yield of 1 oz. 1 dwt. to the ton. It is owned by four working miners, who appear well satisfied with the future prospects of the mine.

The Sons of Freedom Company have a large quantity of stone ready for crushing, and the stampers will start as soon as the holidays are over.

In alluvial mining there is a more satisfactory result to report. Most of the miners so engaged and regularly at work are making fair average wages.

There is no mining in this division for metals or minerals other than gold.

JERICHO DIVISION.

Mr. R. J. Donaldson, Mining Registrar.

There has been nothing done in quartz mining during the quarter, with the exception of about 60 tons of stone burned and crushed by the tributers in the Harbinger. The result was about 6 dwts. to the ton.

The Alluvial Creek claims are being worked out and abandoned.

No metals or minerals other than gold worked for.

No water sold.

DONNELLY'S CREEK DIVISION.

Mr. O. P. Whitelaw, Mining Surveyor and Registrar.

Hit-or-Miss Gold Mining Company.—This company have cut the Bismarck shoot of gold, and have crushed 133 tons, yielding 220 ozs. 11 dwts. The shoot was cut in a winze near the southern boundary of the Hit-or-Miss Company's lease. Should the shoot, which has a northerly dip, continue equally good, there are many dividends in store for the shareholders.

The Consols Company have only been crushing for two weeks, the result being 60 ozs.

The Bismarck United Company have crushed during the quarter 83 ozs. 15 dwts. from the upper workings. The lower tunnel is being continued, and the manager is of opinion that he is near a shoot of gold.

The Crinoline Company is let on tribute. There have been no crushings during the quarter.

The Victory Company—a claim held under miners' rights—has struck very rich stone in a shaft. It is not sufficiently opened to give an idea of what it is likely to be.

No mining for minerals other than gold, and no water sold.

STRINGER'S CREEK DIVISION.

Mr. W. M. Smith, Mining Registrar.

Quartz.

There is not much change to report in this branch of mining in the division for the quarter. The Long Tunnel Company have not yet discovered payable stone in their lowest or 723-foot level, but the indications are reported to be favorable. The reef at the other levels in this mine maintains its reputation for size and richness. The Walhalla Company, in driving south at the No. 3 level, have struck a fresh body of stone, in which gold was freely seen when it was first struck, but work was much impeded by a large inflow of water. The starting, however, of the Empress pumping engine has greatly lessened the flow, so that we may expect to hear more from this mine during the coming quarter. The Long Tunnel Extended Company, whose claim is the next north of the Long Tunnel Company's, have completed the cutting and securing of their fine chamber and the erection of pumping and winding machinery therein nearly 1,000 feet from the mouth of the tunnel. The mine is well ventilated by a flue, which penetrates the hill from the chamber to the surface, a distance of from 400 feet to 500 feet, the first piece of work of the kind, I believe, in the colony. No change to report about the other mines.

Alluvial.

Creek and river sluicing has rather increased than otherwise during the quarter. Stringer's Creek is now being worked from the Long Tunnel Company's battery to its junction with the Thomson River, with, as far as I can ascertain, favorable results. Several parties at work on the Thomson River are making far more than ordinary wages, and those working in the Aberfeldy River are reported to be doing well.

Copper.

The Walhalla Company at Cooper's Creek have been busy during the quarter erecting machinery for the better working of the mine, which is reported to be looking as well as ever.

ABERFELDY SUBDIVISION.

Mr. M. Nugent, Mining Registrar.

Mining operations have been much the same as last quarter.

The Aberfeldy Mine (Jas. Rice's lease) is turning out good returns.

The only other mine of any importance is the Lily of the Valley. No gold returns have been obtained from it during the quarter.

Some of the alluvial claims are paying wages, but yet alluvial mining here is waning.

Gold was the only metal mined for during the quarter.

RUSSELL'S CREEK DIVISION.

Mr. C. H. Williams, Mining Registrar.

Nothing fresh to report this quarter, mining in all branches being very dull.

Very little doing in the gullies for want of water.

No water sold in this division.

BENDOC SUBDIVISION.

Mr. John Nichol, Mining Registrar.

Quartz mining in this subdivision still remains in the same depressed state and completely at a standstill.

The alluvial miners who are at work appear satisfied with the result of their labor, but many at this particular season of the year leave mining and obtain employment harvesting and sheep-shearing.

The Back Creek did not prove so good as many anticipated, the ground turning out patchy, but some are now making good wages.

No water sold in this subdivision for mining purposes during the quarter.

TARWIN SUBDIVISION.

Mr. H. M. Murphy, Mining Registrar.

During the quarter nothing in mining has transpired worthy of record. The No. 1 South Company have suspended operations. The Prospectors' tributers are making good wages.

Lime.

The Waratah Bay Lime Burning Company have suspended operations, pending the formation of another and more extensive kiln.

Tin.

The tin mining is in the same state as at the date of my last report. The company is not yet formed, and operations are therefore suspended.

TRARALGON SUBDIVISION.

Mr. C. Denis, Mining Registrar.

Since my last report, gold has been found about four feet from the surface on the eastern branch of the Traralgon Creek. It is more than likely that it will be found payable in a little time. The sample is very good, being coarse and shotty. The locality is kept a secret at present, as the parties wish to prove the ground before making it public.

An outcrop of coal of a very good quality has lately been found in the neighborhood of Tyers Creek, and ground has been taken up by the party with the intention of forming a company to work it.

APPENDIX.

OBSERVATIONS ON NEW VEGETABLE FOSSILS OF THE AURIFEROUS DRIFTS.

BY BARON FERDINAND VON MUELLER, C.M.G., M.D., Ph.D., F.R.S., GOVERNMENT BOTANIST.

[CONTINUED.]

Plesiocapparis megasperma.

Fruit globular, neither compressed nor oblique; pericarp very thin, outside almost smooth; seed solitary, very large, globular; cotyledons hemispherical; radicle ovate, very minute, enclosed.

In Pliocene drifts, vastly overflown by basalt, near Gulgong; Chas. Barnard, M.D.

The few specimens seen measure about $1\frac{1}{2}$ inch and are very faintly wrinkled and rough outside. The thickness of the pericarp varies from $\frac{3}{4}$ to $1\frac{1}{2}$ line; a slightly prominent and gradually evanescent line passing upwards along less than half of the fruit or extending on both sides nearly to its summit. Seed about 1 inch in diameter; its mode of attachment no longer traceable. Cotyledons easily separating from each other and from the endopleura, homogenous, wrinkled merely by exsiccation; radicle about 1 line long.

When the genus Celyphina (in the absence of seeds with much diffidence) was established, I alluded already to its probable affinity with Helicia; if the discovery of the seeds should bear out hereafter this view, then Celyphina may as a genus become the receptacle also of our new fossil. The fruit of the Chilian Guevina and our East Australian Macadamia or Brabejum in their main structure, even so far as the embryo, is all but that of the fossil fruit now under consideration. Externally a great resemblance to Plesiocapparis leptocelyphis is evident at a glance, and the question arises, whether the seeds figured in first instance are only ovules advanced in growth, of which one only comes to maturity and then almost filling the whole cavity.

The fact that in Plesiocapparis several of the seeds (resembling somewhat those of capers) attain a considerable size and are not early suppressed, as is mostly the case in pleuri-ovulate but one-seeded fruits, would speak against the generic union, notwithstanding the singular external resemblance of the fossil now under review. Macadamia, to which it verges so closely, produces only two ovules, of which usually only one matures; its radicle is minute and enclosed just as in our fossil fruit; we should thus almost be justified in establishing for the latter a separate generic name (Helicites). "Veritas potius e praevia separatione quam festina unione."

On the other side it cannot be denied, that Melicocca among Sapendaceæ exhibits many carpologic characteristics, which agree with the fossil now temporarily placed in Plesiocapparis, although the latter generic name, as indicating a very different alliance, does not apply to this new species or form. The affinity to some rosaceous genera (for instance Pygeum), to some meliaceous sapotaceous and laurinaceous genera, several of which offer great embryonic resemblance, is more remote.

Spondylostrobus Smythii.

Through the circumspect exertions of Mr. Rob. Johnston, of Launceston, whose meritorious enquiries into the geology of some portions of Tasmania are well appreciated since years, I came into the possession of several vegetable fossils from thence, and thus received recently also the drawing of some cupressoid foliage from a place where fruits of Spondylostrobus Smythii were obtained. This locality is on a small watercourse flowing into the Tamar opposite Georgetown, since famous through the discovery of rich gold in drifts as well as in quartz-reefs. These new goldfields furnish also some other fossil vegetable species, which are indicative of auriferous country in Victoria, New South Wales and Queensland, though in Tasmania these organic relics remained so singularly long concealed.

As hitherto only one single species of coniferous plants has been noted in the gold-drifts, it was to me at once apparent, that at last the foliage of Spondylostrobus had been discovered. The delineation made from the original impression (the clayey soil since crumbled into dust) did not show with exactitude the numerical arrangement of the leaves in the whorls. In questioning the finder, whether it might have been *quinary*, he at once replied, that he remembered it to have been such. With this confirmation of what I anticipated, there can also be no longer any reasonable doubt as to this foliage belonging to the same species, which furnishes the fruit described as that of the genus Spondylostrobus. This foliage by the quinary arrangement of its scale-like leaves bears out the symmetry noticed between the number of leaves in a whorl and the numerical fruit divisions of several cupressinous genera. So in Frenela and its subgenus Actinostrobus we find a ternary disposition of the minute leaves combined with a double and usually unequal whorl of ternary fruit-scales, the bracts of the male flowers and mostly also the anthers being placed likewise ternately, while the embryo is also frequently tricotyledonous. In Octoclinis quaternary leaves are normally connected with eight fruit-scales, the latter in two slightly unequal sets. Callitris shows leaves and bracts opposite in single pairs, while the fruit-valves form a double pair, one pair only seed-bearing, whereas the anthers are mostly grouped in four and the two cotyledons two-cleft. In Libocedrus we find as a rule similar numeric proportions. Under these circumstances, though the evidence is not connectedly direct but only circumstantial, we may be justified in uniting the foliage now illustrated with Spondylostrobus-fruit. The drawing here offered is from a sketch of Mr. Johnston, but Major Shepherd has added in dotted lines on the enlarged figure the lost portions of the quinary leaves.

Attention now being directed to the cypress-like leaves of this isolated fossil conifer, it will doubtless soon be found elsewhere. In all probability also the fossil pine-wood, gathered at the localities, at which Spondylostrobus fruits were obtained, will prove conspecific. The geologic structure of the country, where in Tasmania (at the Union Gold Mining Company's ground) this fossil conifer occurs, is described by Mr. Johnston and Mr. Stockman as follows: Surface-clay, 7 feet; then wash-drift with slight indications of gold, 2 feet, then arenaceous pipe-clay, 30 feet ("false bottom"); followed then by a layer of 2 feet of carbonaceous clay with Spondylostrobus and concomitant fossils; beneath this Silurian "bed-rock." Spondylostrobus-fruits were discovered by Mr. Johnston also in the Ophir Gold Mining Company's shaft (of the Launceston Tertiary basin), there sociated with Platycoila Sullivani, Phymatocaryon Mackayi, and Conchotheca rotundata. The latter, it may be here passingly observed, has been traced in the Reform Company's claim, about ten miles from Ballarat, to a depth of 400 feet; and the same fossil or a closely allied species has latterly been noticed between Warwick and Towomba, in the Clifton coal-mine by Mr. Simson, according to Mr. C. Staiger, the Government Analytic Chemist and Director of the Brisbane Museum. There the succession of strata is as follows: 2 feet of volcanic black soil (the surface of the rich pastoral downs), then about 37 feet of Dolerite, after that about 43 feet of drift, on the bottom of which Conchotheca-fruits occur with fossilized wood and drift-quartz, and beneath this commences the coal, worked by the mine.

In Tasmania the Spondylostrobus is accompanied by the leaves of a tree, which possibly may belong to the order of Lauraceæ, unless indeed these showy leaves constituted the foliage of one of the local plants, described hitherto systematically from fruits alone. Mr. Johnston thinks, that he has recognized fragments of Spondylostrobus-foliage also in the Travertin near Hobarton as well as in the Windmill Hill beds near Launceston; there this fossil is likewise associated with the remains of an extinct Banksia, in all probability identical with the Victorian fossil congener.

Explanation of Lithogram.—Plate XVI.

Plesiocapparis megasperma.

Fig. 1, fruit presenting its side and base.
2, longitudinal section of fruit.
3, cotyledons separated, showing the radicle.
4, tissue of pericarp.
1–3, natural size; 4, magnified 200 times diametrically.

Spondylostrobus Smythii.

5*a*, impression of leafy branchlet, natural size.
b, summit of a branchlet, greatly enlarged, portions of the foliage restored.

Plesiocapparis leptocelyphis.

F. v. M. in the Report of the Department of Mines, New South Wales, 1876, p. 180.

Fruit comparatively small, slightly or seldom considerably depressed, somewhat oblique ; pericarp very thin, outside almost smooth ; seeds 2–4, small, unattached, oval or nearly roundish, very convex on the outer side, hollow and twisted on the inner side.

At Gulgong in the Upper Pliocene formation ; C. S. Wilkinson, Esq.

Size of the fruit from ¾ to 1½ inch ; the usually slight compression likely the effect of weight on an originally soft fruit ; the pericarp outside very slightly rough from minute dots and rugosities, its general thickness about ½ line or not much more.

From the basal cicatrix, indicating an attachment to a hypogynous calyx, a faint angular line extending about half-way upwards on one side, this line terminating in a minute point, indicating possibly a lateral stigma or base of a deciduous style ; this lateral line not clearly observable in all the specimens, yet none of them exhibiting a terminal stigma ; if the interpretation thus given should prove correct, then this fossil would be anomalous among Capparideæ. No traces of placentæ or septa observable, thus likely the seeds originally imbedded in pulp. Number of seeds preserved in the cavity, 2–4 ; their length from hardly ⅓ to nearly ½ inch ; their flexure probably the defect of exsiccation.

This is one of the many instances, in which the search for precise diagnostics, to define a fossil plant, proves unsatisfactory to a phytographer, accustomed to describe living plants and desirous of doing this conscientiously.

Conchocaryon.

Fruit long, oblique-ovate, considerably compressed, one-celled, almost smooth, dehiscent only along the anterior margin, produced at the lower portion of the back into two acute ridges. Placenta narrow, dorsal in the cavity ; its point of attachment to the seed about midway up at the dorsal inner angle of the pericarp. Seed solitary, ovate, turgid, filling the lower part of the cavity, extended at the summit into a flat short triangular appendage.

Name from some resemblance of this hard fossil fruit to a bivalved shell.

This genus must find its place among Proteaceæ, so far as we at present are able to judge ; it approaches in the exterior form of the fruit some Grevilleas, but the pericarp is thicker than usual in that genus, although it produces also a few species in which the fruit-valves are as woody as in all Hakeas ; the wing-like terminal appendage indicates an affinity to the last-mentioned genus, from which however the lesser degree of the dehiscence of the pericarp removes it ; the seed moreover is solitary, smooth and convex on both sides. Regarding fossil plants, the very unsymmetrical form of the fruit offers at once a mark of difference, by which this new genus can be separated from Conchotheca.

Conchocaryon Smithii.

In drifts of the Pliocene period at Gulgong.

I am not certain, whether the as yet unique specimen on which the genus Conchocaryon was founded came from the later collections of the Rev. W. B. Clarke, or possibly Mr. C. S. Wilkinson, or whether perhaps from some other contributor and a Victorian locality ; but I believe to be correct in giving the above as the place of discovery and in regarding it contemporaneous with the many other fossil fruits obtained from the auriferous drifts of our own colony.

Concerning the precise age of these fossils, opinions are as yet not quite unanimous. The eminent Nestor-geologist of Australia, whose death we had so recently to deplore, gave utterance to his view in the last (posthumous) edition of the " Sedimentary Formations of New South Wales (Sydney 1878)," p. 91, that they " seemed to belong to the *later* Pliocene period."

The figures on Plate XVII. give the natural size of the solitary specimen as yet obtained, little less than 1 inch in length. The pericarp is thick in proportion to the cavity, its walls being somewhat more than 1 line in diameter ; the surface is but very slightly rough, acute on the anterior, obtuse on the posterior margin, a wide and deep furrow separating the two sharp keels towards the posterior base.

The seed, so far as I have been able to ascertain in an only specimen, is attached on the posterior side of the cavity from a point, where the summit of the nucleus passes into the terminal flat appendage. Nucleus measuring in length about ¼ of an inch, evidently longer than the wing of the seed. The circumscription of the genus may have to undergo some slight alteration in reference to the inner structure of the fruit, when more extensive material for dissection shall be at our disposal.

A vast number of supposed proteaceous plants are described by several palæontologists from the Tertiary formations of different parts of Europe, but most of these were distinguished generically and specifically from leaves alone, often even without any real evidence of their belonging to this order of plants. Among the comparatively few, safely established as proteaceous from fruit pericarps or seed, I notice none, which bears any close affinity to the particular co-ordinal fossil now rendered known.

By connecting the name of Major the Honorable W. Collard Smith, the Minister of the Mines Department, with this organic remnant of a pre-historic time, I desired to place on public record my grateful acknowledgment of his approval, to continue the distinct series of illustrations of vegetable fossils, commenced and carried on under the auspices of his honorable predecessors.

EXPLANATION OF LITHOGRAM.—PLATE XVII.

Plesiocapparis leptocelyphis.

Fig. 1, side views of fruit.
1*a*, a smaller variety of the same.
2, longitudinal section of a fruit.
3, seeds.
All natural size.

Conchocaryon Smithii.

4, lateral and dorsal view of a fruit.
5, longitudinal section of a fruit.
6, cellular tissue of the pericarp.
4–5, natural size ; 6, magnified diametrically 200 times.

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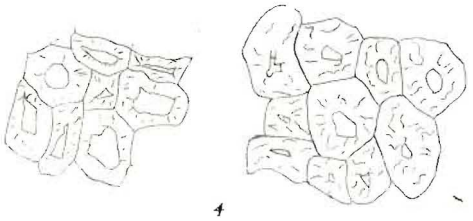
PLESIOCAPPARIS MEGASPERMA

Figs 1 4

SPONDYLOSTROBUS SMYTHII

Fig 5

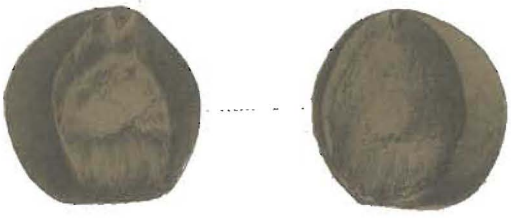
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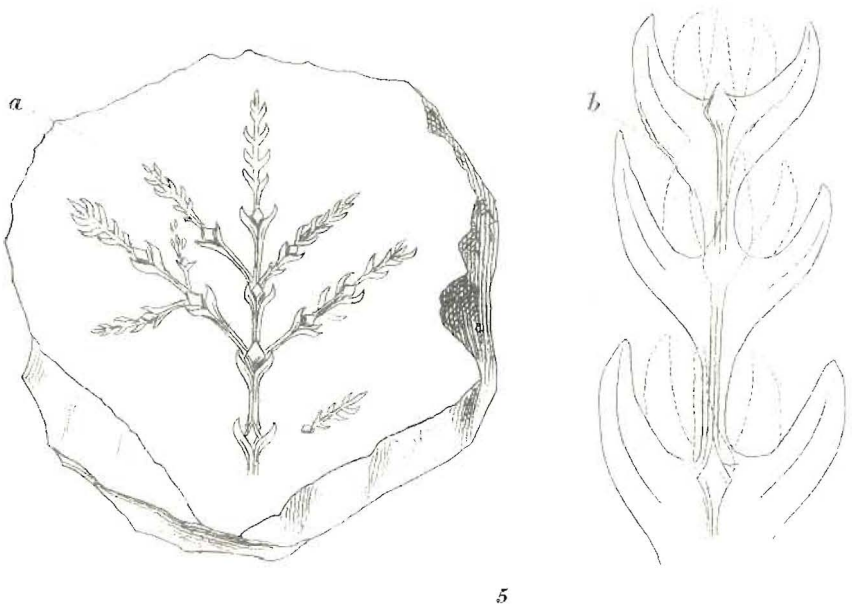
4



1 2



3



5

F.C. Shepherd Del. et Lith.

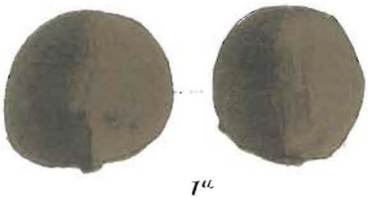
PLESIOCAPPARIS LEPTOCELYPHIS

Figs 1–3

CONCHOCARYON SMITHII

Figs 4–6

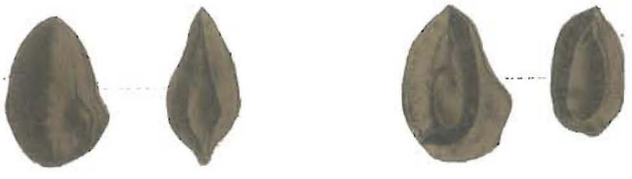
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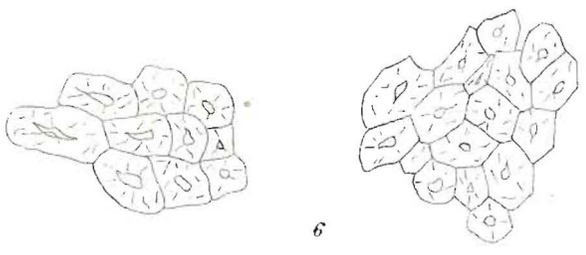
1a



1 3 2



4 5



6