

When he first started this process of treatment he used to have a much greater depth of pulverised material in the vats; but he found that this did not leach satisfactorily, owing to the quantity of slimes, and therefore reduced the depth of sand to 20in., which, he states, gives good results.

The solution, after being used, is pumped up into the tank and made up again to the required strength. It is tested by evaporating a small quantity of the solution, say 10oz., in an evaporating dish, and finding the quantity of potassium-cyanide it contains, and then an extra quantity of crude cyanide is added to bring it up to the required strength. There is no getting away from the fact that there is a certain loss of cyanogen due to its decomposition by the oxygen in the air, and probably this decomposition is greatest when the liquor is trickling out of the pipe which leads from the bottom of the vat to the tanks containing the zinc-shavings; and in treating any ores having an acid composition they would tend to decompose the cyanogen and liberate hydrocyanic acid. This process is only yet in its infancy, and no doubt will be considerably improved on yet as regards the method of application. The cost of the crude cyanide is about 1s. 6d. per pound.

STATEMENT showing the RESULTS of Working the Mines in the OHINEMURI and WAIORONGOMAI DISTRICTS for the Year ended 31st March, 1893 :—

Locality and Name of Mine.	Area.			Average Number of Men employed.		For Owners.		For Tributers.		Tailings treated.		Value of Ore sold.
				Wages-men.	Tributers.	Quartz crushed.	Gold obtained.	Quartz crushed.	Gold obtained.	Quantity.	Gold obtained.	
	A.	R.	P.			Tons.	Oz. dwt.	Tons.	Oz.	Tons.	Oz. dwt.	
Ohinemuri County—												
Maratoto—Maratoto ..	18	2	10	3	..	83	..	..	..	..	..	576oz.; 5s. per oz.
Karangahake—												
Ivanhoe and Truro ..	42	0	0	2	4	220	138 0	115	109	..	..	51 tons; £40 per ton.
Woodstock..	30	0	0	10	..	110	467 0	..	..	..	..	3,266 oz.; £2 per oz.
Crown ..	116	0	0	112	..	394	45 0	..	..	..	..	5½ tons; £33 per ton.
Talisman ..	30	0	0	2	..	..	..	..	..	..	..	
Earl of Glasgow ..	27	0	26	3	..	5	28 0	..	..	..	..	
Diamond ..	9	3	12	2	..	4	27 0	..	..	..	..	
Imperial ..	10	2	14	1	..	3	15 0	..	..	..	..	
Sundry Claims ..	..	..	..	2	..	6	26 4	..	..	..	..	
Owharoa—Smile of Fortune ..	12	3	2	10	3	480	168 0	130	68	..	..	
Waitekauri—Jubilee ..	103	0	15	8	..	140	102 0	..	..	..	..	
Waitekauri North—Golden Cross	26	0	20	6	..	2	29 0	..	..	..	..	
Komata—Komata Gold-mining Company	60	0	0	50	..	2,000	..	..	..	..	..	6,680 oz.; £5,632.
Waihi—												
Waihi ..	422	0	0	150	..	18,279	..	..	..	..	..	29,681oz. 10 dwt.;
Silverton ..	83	0	38	12	..	800	500 0	..	..	..	..	£48,809 1s 1d.
Totals ..	991	1	17	373	7	22,526	1,545 0	245	177	..	..	
Piako County—												
Waiorongomai—New Find ..	31	0	36	16	4	853	540 0	186	60	1,650	297 14	
Newshams ..	5	0	0	3	..	480	280 0	..	..	..	..	
Totals ..	36	0	36	19	4	1,333	820 0	186	60	1,650	297 14	