

SOME RESULTS OF TESTS made by the ELMORE ORE-CONCENTRATING PROCESS ON VARIOUS ORES, SLIMES, TAILINGS, ETC.

Description of Ore.	Original Assay.			Assay of Concentrates.			Assay of Tailings.			Percentage of Values recovered in Concentrates.			Ratio of Concentration.
	Copper.	Silver.	Gold.	Copper.	Silver.	Gold.	Copper.	Silver.	Gold.	Copper.	Silver.	Gold.	
Copper-ore ..	7.1	3.9	0.61	14.6	8.0	1.28	Trace	Trace	Trace	95.0	91.0	92.0	2 to 1*
" ..	7.6	2.67	0.27	10.9	3.6	0.39	"	Trace	"	94.0	90.0	94.0	1½ " 1
" ..	3.9	0.33	0.64	19.1	2.7	3.00	"	0.07	0.09	97.0	98.0	90.0	5.2 " 1
" ..	3.6	0.73	0.24	11.5	2.5	0.60	"	Trace	Trace	97.0	98.0	96.0	3½ " 1
Tailings from a water-concentrating plant	1.58	..	..	7.8	..	..	0.11	..	..	84.0	..	..	5 " 1
Copper-ore ..	3.40	1.74	0.19	8.0	5.0	0.51	Trace	Trace	Trace	91.0	93.0	95.0	2½ " 1
Gold-ore (telluride) ..	..	0.10	1.27	..	1.5	6.1	..	Trace	0.05	..	..	96.8	5½ " 1
South African gold-ore ..	..	0.24	3.05	..	..	18.3	..	Trace	0.19	..	..	97.5	7 " 1*
Antimonial gold-ore (tailings) ..	..	0.05	0.613	..	..	3.79	..	Trace	Trace	..	..	96.0	10 " 1
Copper-ore ..	3.0	6.5	..	8.40	16.2	..	0.30	0.90	..	90.3	80.0	..	5.1 " 1
Silver-ore ..	1.15	32.0	..	3.0	65.4	..	0.30	7.0	..	85.2	87.3	..	2½ " 1*
Magnetic oxide, with copper-pyrites	2.2	..	..	29.0	..	..	0.60	..	..	80.0	..	..	5 " 1
Copper-ore ..	4.3	1.90	Trace	12.1	5.6	0.66	0.08	Trace	Trace	97.0	98.0	..	3½ " 1
" ..	2.8	1.78	"	10.8	7.4	..	0.05	Trace	Trace	98.0	99.0	..	3½ " 1
" ..	3.6	1.41	0.516	8.1	3.5	0.75	Trace	"	"	96.0	95.0	..	3 " 1
Antimonial gold (tailings)	..	0.14	0.232	..	0.6	3.8	..	"	0.17	..	..	93.0	7 " 1
" (slimes)	..	0.14	..	..	1.5	2.4	..	"	Trace	..	..	77.0	7 " 1
Magnetic oxide, with copper-pyrites	3.6	16.2	0.2	14.5	153	2.0	..	4.1	Trace	92.0	..	..	4½ " 1
Slimes from silver-mines ..	..	23.5	0.35	15.31	220	3.5	0.62	6.0	Trace	89.6	..	90.0	12½ " 1
Copper-ore ..	4.4	..	..	..	..	..	..	..	0.1	..	..	..	5½ " 1
Pulp from battery-table (silver-ore)	3.20	..	..	13.10	..	..	0.08	..	..	98.0	..	74.8	12½ " 1
Magnetic oxide, with copper-pyrites	1.80	..	..	9.00	..	..	0.15	..	..	93.0	..	..	6½ " 1
Copper-pyrites in quartz	2.80	..	..	15.65	..	..	0.04	..	..	98.7	..	..	7½ " 1
Transvaal blanket slate	..	0.20	0.327	..	2.55	3.627	..	0.067	0.039	..	..	88.85	12½ " 1
West Australian gold-ore ..	..	1.30	1.147	..	3.25	13.060	..	1.000	0.025	..	..	97.80	12½ " 1
Cinnabar (quicksilver) ore	Mercury.	0.50	..	Mercury.	..	..	Mercury.	..	..	Mercury.	..	..	21 " 1
" ..	1.24	..	..	13.10	..	..	0.075	..	..	95.2	..	..	12 " 1
" ..	1.75	..	..	19.00	..	..	0.200	..	..	90.0	..	..	16 " 1

* Nearly.