

TABLE II.

Speiss Roasted in Edwards Furnace with 15% Salt. (Weights in Pounds)

No.	Weight of Speiss	Weight of Salt	Total Weight	Wt. After Roast	Gain in Weight	Assay Silver Before R.	Silver After R.	Silver Content Before R.	Silver Content After R.	Oz Silver Lost	Per Cent Sil. Lost
1	10,000	1500	11500	12295	1195	1182.0	917.6	5910	5641		
	Weight of flue dust, clinker, etc			3176			115.0		183		
								5910	5824	86	1.46%
2	10000	1500	11500	13025	2525	1092.6	816.9	5463	5320		
	Weight of flue dust, clinker etc.			1146			164.7		94		
								5463	5414	49	0.90%
								11.373		135	1.18%

TABLE III.

Results of Three Months Test of Roasting Process

Speiss Charged to Roasters

Lot	Dry Weight	Co.	Ni.	Assay As.	Ag.	Cobalt	Nickel	Metallic Content Arsenic	Silver Oz.
212	43715	17.62	10.00	21.30	1648.43	7703	4372	9311	36039.30
213	69838	19.18	10.13	25.20	1293.00	13395	7095	17599	45150.27
214	53634	14.82	6.70	23.85	1962.65	7949	3593	12792	52632.39
215	68917	19.24	5.85	30.35	1653.43	13259	4031	20916	56974.71
216	33043	19.70	7.10	22.75	1702.45	6509	2346	7517	28127.03
217	51790	20.86	7.54	27.65	1436.71	10803	3905	14320	37203.61
218	48715	19.03	7.56	27.75	1472.16	9270	3683	13518	35858.14
219	31940	18.83	8.35	28.05	1292.30	6014	2667	8959	20638.03
220	12320	19.61	9.44	29.85	1556.18	2417	1164	3679	9590.74
221	10811	18.02	6.86	24.95	1598.17	1948	742	2611	8638.91
222	10757	17.97	7.77	23.65	1695.90	1933	836	2544	9121.40
223	41683	19.84	6.95	27.90	1788.80	8270	2897	11630	37281.28

377255.81

Credits for the above roasting; 9 lots of Chloro-Speiss shipped to Orford Copper Co., 3 lots of rejected Speiss, Flue Dust and Crude Arsenic.

156	38066	15.96	8.77	14.03	1334.50	6975	3338	5341	25399.54
157	56284	16.35	8.75	13.95	1189.90	9202	4925	7852	33401.74
158	46407	14.17	7.39	10.10	1534.20	6576	3429	4687	35598.81
159	49941	15.95	6.07	22.20	1365.90	7966	3031	11087	34107.21
160	44447	16.76	6.12	15.35	1525.40	7449	2720	6823	33899.73
Reject	50505	14.86	6.70	20.20	1329.10	7505	3384	10202	33562.07
161	52371	17.71	6.74	16.90	1360.30	9275	3530	8851	35633.23
162	50077	17.91	6.98	13.75	1304.37	8969	3495	6886	32658.82
163	49070	17.02	7.06	22.85	1240.30	8352	3464	11212	30430.76
164	41166	17.42	6.45	23.50	1544.80	7171	2655	9674	31796.62
Reject	46465	14.95	5.92	23.20	1197.70	6947	2751	10770	27825.57
Flue dust	3305	18.42	2.33	15.10	669.50	609	77	499	1106.35
Reject	30845	15.44	6.87	21.40	1267.30	4762	2119	6601	19544.93
Crude Ars.	16781	3.90	2.08	52.30	211.50	654	349	8771	1774.59

376140.97

Loss in Silver 1114.84

Per cent loss 0.29%