

Civils," gives the following assays and analysis of ores of Copper Cliff Mine.

Assays of Copper Cliff ores, on 139 tons :

Copper, Cu ..	...	...	4.80	5.01	5.47
Nickel, Ni ...	...	...	5.89	5.31	5.69

Analysis of 90 tons ore :

Sulphur	...	...	...	26.717	
Copper	...	...	...	12.610	
Iron	...	...	...	29.220	
Nickel	...	...	...	3.120	
Protoxide of Iron	...	...	...	6.22	} Gangue 29.36%
Lime	...	...	...	4.84	
Magnesia	...	...	...	2.61	
Alumina	...	...	...	2.63	
Silica	...	...	...	13.06	
Total				101.027	

which can be approximately written :

Chalcopyrite—CuFeS ₂	...	...	...	36.49
Nickel and pyrrhotite—NiFe ₇ S ₂	...	...	...	36.18
Gangue	...	...	...	28.36
				101.03

In the "Report of the Royal Commission on Mineral Resources of Ontario, 1890," the results of nine analyses are thus published :

	1	2	3	4	5	6	7	8	9
Copper .	4.62	5.52	4.95	9.98	4.03	5.00	7.91	9.94	5.97
Nickel .	1.16	1.13	3.26	1.12	4.21	3.30	1.50	2.75	3.00