

CONVEYING TAILING IN LAUNDERS

(October 12, 1907)

The Editor:

Sir—The courteous query for more light in your issue of September 14, and signed by Mr. G. A. Overstrom, deserves full data in answer.

The conditions are not quite as Mr. Overstrom takes them. The ore crushed is an exceedingly hard tough quartz, with very small admixture of calcite, and no other gangue; it is therefore very sharp and granular. The coarser portion of the pulp which results from battery crushing through 26 mesh 28 wire steel screens is tube-milled, and the resulting screen-test after tube-milling is as follows:

PULP WHEN USING TUBE-MILLS

	Mesh.	Per Cent.
Remaining on	40.....	3.1
"	50.....	4.4
"	60.....	2.8
"	80.....	4.1
"	100.....	4.3
"	120.....	10.0
"	150.....	3.1
Passing	150.....	68.2

The line has for several weeks at a time, however, been run without the tube-mills running, therefore taking the straight battery product, screen test of which is as follows:

STRAIGHT BATTERY PULP

	Mesh.	Per Cent.
Remaining on	40.....	5.1
"	50.....	5.2
"	60.....	5.2
"	80.....	5.7
"	100.....	5.6
"	120.....	11.8
"	150.....	1.7
Passing	150.....	59.7

The normal proportion of water that these pulps contain in the pipe-line is about five to one by weight, and while there is no doubt that the hydrostatic head formed behind riffles of sand in the pipe when such occur greatly assists in preventing the complete clogging of the pipe, this action has only occurred a few