

NEW PROCESS FOR LOW GRADE ORES

A correspondent of the New York Commercial, writing from Deadwood, South Dakota, under recent date, says: After 25 years of experimenting, Dr. J. A. Ogden, of this city, has perfected a process that is going to help the treatment of low grade ores. His first experiments were made in Philadelphia years ago, before there was any kind of a cheap process. Six years ago he came to Deadwood and opened a laboratory, and ever since he has been making tests on ores sent in from the Black Hills camps and from mining districts all over the world. He is now building a mill in this city that will have a daily capacity of 112 tons. One hundred tons will be for custom ore, and there will be a series of 12-ton tanks for testing and experimental work alone. The mill is already built and most of the machinery is in place. It will be in operation in a short time.

The Ogden process is expected to save the gold and silver, together with the by products, such as copper, zinc, lead, antimony, nickel, cobalt and bismuth. Tests made by this process on ore from Colorado, Nevada, Georgia, British Columbia and other places, have saved enough of these by-products to pay for the entire cost of mining and milling the ore, leaving the gold and silver clear profit. The ore is crushed very fine, and is kept in constant motion, which prevents the "slimes" from interfering in the process of solution.

Dr. Ogden's scheme, it is said, is not his mechanical appliances as much as the combination of acids with electricity, which releases the values from the ore. He claims that he can take the most difficult ore and reduce it in from three to six hours. The cost of the mill extraction will be much less than the ordinary process. The cost of a 100-ton mill using the Ogden process will not be more than one-third that of the cyanide mills now in use in the Black Hills.

Dr. Ogden proposes to get his mill in operation as soon as possible, and then go into other mining fields, where he will build more mills. Some of the Black Hills mining companies have been waiting a year or more for this process to get completed and on the market. His tests on the refractory gold-bearing ores of the hills have given extractions of 98 to 100 per cent. A test made on an old ore dump at Victor, Colo., gave 98 per cent gold. The best extraction obtainable on that ore by the cyanide process was 60 per cent. A sample of ore from a 3,000,000-ton dump in British Columbia, assaying \$8.00 per ton, gave up 100 per cent of its gold and silver. It will mean here in the Hills that ore running as low as \$2.50 a ton gold can be successfully treated.

Air Compressor for Columbia.

Two carloads of machinery for an air compressor, consigned to the Columbia Mining company, arrived here today. It was manufactured by the Ingersoll-Sargent company. The crowd at the depot indulged in considerable speculation as to what it is intended for, as the Columbia already has an air compressor for the operation of its drills.



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