

WINNIPEG PRICES CURRENT

Concentrating Copper Ore in British Columbia.

The press of the interior has devoted a good deal of space to a discussion of the Elmore process for the concentration of ores by oil and the probable results of its introduction in the great copper camps of the Kootenais, says The World of Rossland, B. C. The opinion seems to have been arrived at that if the Elmore process will do one-half that is claimed for it by its inventor, the problem of the proper treatment of low-grade copper ores has been solved, and a process which is now lying idle will speedily become a dividend payer, in fact, that it would cause such a revolution in British Columbia mining methods as cyaniding did in South Africa.

The process, which is very simple, may be described as follows:—The ore, having been reduced to a freshly flowing pulp, passes directly from the mill into the open end of a horizontal rotating drum, inside of which is fixed a helix with cone blades or buckets, which lift up the pulp to a certain height, and drop it again, at the same time propelling it into the opposite end of the drum, thus keeping the pulp in constant agitation for the few seconds which are required in its passage through the drum. With the pulp is also agitated a small quantity of a thick, sticky oil, the residue left in the stills in the refining of petroleum. This oil, being of the same nature as the pulp, and is consequently, tumbled about with it, and acquires the remarkable property of sticking to and buoying up the particles of mineral that are floating about or suspended in the pulp, but it does not stick to or adhere to the particles of rock which are present in much greater number. The oil and pulp automatically discharge from the opposite end of the drum into a pointed box or spitzkasten, in which the tailings or refuse of the process are blown off with the water at the bottom, while the oil, by reason of its buoyancy, floats on top and carries up with it practically all the values which the ore contained.

From the top of the pointed box, the oil with its load of mineral flows off into a specially constructed centrifugal machine, where the oil is extracted from the mineral and is at once ready for re-use. For close extraction, three such machines are sometimes used, the pulp passing from one to another, after floating off the oil and collecting the mineral and receding a fresh stream of oil in the next mixer. A second centrifugal machine is also found desirable below the first to separate the last of the oil and water from the concentrates. The concentrates are left to settle practically free from oil.

The process was first tried in the laboratory, then on a small working scale, and then with a plant erected at the Gladair mine, Wales, capable of treating about 50 tons of ore per week. After a lengthened trial of this plant, it was replaced by a much larger one, which treats 250 tons per week. The mine was formerly equipped with one of the most modern concentrating mills obtainable, operated under the supervision of able experts, but only 115 per cent. average yield recovery could be obtained from the ore. With the Elmore process over 80 per cent. of the metallic values were recovered, and the whole of the original jig and crushing table plant was abandoned in favor of the new process.

The latest illustration of the bonus case is furnished by the Cornwall, Cornwall. An agreement has been signed between the Town Council and the Elmore process, by which the latter binds itself to erect at Cornwall a furniture factory that will employ at least eighty hands, and pay wages not less than \$25,000 annually. The town Council guarantees the company \$15,000 for the first year, which to purchase a factory site, and exemption from taxes. The giving of the bonus, and the consequent increase of the demand for manufactures, or add to the sum of industry. It enables those who purport to be establishing a manufacturing concern to pick off one centre against another, and from the local jealousy has aroused to reap a substantial profit for themselves at the expense of the public. If the bonus system were abolished in Ontario we should have as many factories as we have now, and the municipalities that provide would be relieved of an oppressive burden.—Palmerston, Ont., Spec.

GROCERIES.

Prices to retail dealers for ordinary lots, with usual discounts for cash or large lots.

Table listing various grocery items and their prices. Includes categories like Canned Goods, Groceries, Cigarettes, Cured Fish, and various oils and flours.

Fitted plums, Nectarines, Prunes, Raisins, Apples, Peaches, etc.

Table listing various fruits and their prices. Includes items like Fitted plums, Nectarines, Prunes, Raisins, Apples, Peaches, etc.

Matches, Telegraph, Parlor matches, Etc.

Table listing various household and utility items and their prices. Includes Matches, Telegraph, Parlor matches, etc.

Nuts, Brazil, Peanut, Grenoble walnuts, etc.

Table listing various nuts and their prices. Includes Brazil, Peanut, Grenoble walnuts, etc.

Extra bright, per lb., Medium, per lb., etc.

Table listing various oils and their prices. Includes Extra bright, Medium, etc.

Extra standard, per lb., Extra ground, etc.

Table listing various sugar and flour products and their prices. Includes Extra standard, Extra ground, etc.

Rock salt, Common fine, Dairy, etc.

Table listing various salt and dairy products and their prices. Includes Rock salt, Common fine, Dairy, etc.

Assorted herbs, Allspice, white, Allspice, pure ground, etc.

Table listing various spices and their prices. Includes Assorted herbs, Allspice, white, Allspice, pure ground, etc.

China Blacks, Tea, Choice, Medium, Common, etc.

Table listing various tea and China products and their prices. Includes China Blacks, Tea, Choice, Medium, Common, etc.

T and B, No. 5, an. 20, cc. 20, etc.

Table listing various tobacco and cigarette products and their prices. Includes T and B, No. 5, an. 20, cc. 20, etc.

Orinoco, 1 1/2 lbs. tin, Tuckett's chewing cigarette, etc.

Table listing various tobacco and cigarette products and their prices. Includes Orinoco, 1 1/2 lbs. tin, Tuckett's chewing cigarette, etc.

Lower grade, 1 1/2 lbs. tin, Capstan, med. 1/2 lb., etc.

Table listing various tobacco and cigarette products and their prices. Includes Lower grade, 1 1/2 lbs. tin, Capstan, med. 1/2 lb., etc.

Capstan, med. 1/2 lb., Capstan, full 1/2 lb., etc.

Table listing various tobacco and cigarette products and their prices. Includes Capstan, med. 1/2 lb., Capstan, full 1/2 lb., etc.

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Chewing Plug, Virgin Gold, Bull's Eye, etc.

Table listing various chewing tobacco products and their prices. Includes Chewing Plug, Virgin Gold, Bull's Eye, etc.

Smoking, Virgin Gold, Bull's Eye, etc.

Table listing various smoking tobacco products and their prices. Includes Virgin Gold, Bull's Eye, etc.

Wooden Ware, Pails, wire hoop, Pails, Star fire, etc.

Table listing various wooden ware and household items and their prices. Includes Pails, wire hoop, Pails, Star fire, etc.

Tuba, nest 3, Tuba, wire hoop, Tuba, fire No. 1, etc.

Table listing various tuba and household items and their prices. Includes Tuba, nest 3, Tuba, wire hoop, Tuba, fire No. 1, etc.

Walter Woods & Co's Hat, Extra O.K. parlor brooms, etc.

Table listing various brooms and hats and their prices. Includes Walter Woods & Co's Hat, Extra O.K. parlor brooms, etc.

Following are prices for parcel lots with usual reductions for unbroken packages.

Table listing various parcel lot items and their prices. Includes Alcohol, Blushing powder, Borax, Bromide potato, Carbolic, Castor oil, Chlorate potash, Citric acid, Compound, Cosine, etc.

Extraction logwood, boxes, Rosin, Fir, Glycerine, etc.

Table listing various chemical and extraction products and their prices. Includes Extraction logwood, boxes, Rosin, Fir, Glycerine, etc.

Paraffin, Linseed, Glycerine, etc.

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