

Concentration Of Ores by Oil

Description of the Elmore Process for Which Much is Claimed.

Said That It Would Reduce Cost and Greatly Increase Profits.

The press of the interior has devoted a good deal of space recently to a discussion of the Elmore process of concentration of ores by oil...

The ore, having been reduced to a freely flowing pulp, passes directly from the mill into the open end of a horizontal rotating drum...

From the top of the pointed box the oil with its load of mineral flows off continuously into a specially constructed centrifugal machine...

The process was first tried in the laboratory, then on a small working scale, and then with a plant erected at the Glamis mine, Wales...

(1) The process saves the finest slime or float mineral, free gold, sulphides or tellurides, etc., which is the chief source of loss in water concentration plants...

(2) It can be used at any system of wet crushing without classification of material finer than 20-mesh (400 holes per square inch)...

(3) The pulp flows automatically and continuously through the mixers without attention; the oil passes continuously from the surface into the centrifuges below mixers into the centrifugal machines...

(4) The cost of installation is not relatively high for a plant in which the capacity is at least 50 tons per day.

(5) The plant is constructed in very convenient units of about 25 tons daily capacity, but depending on the size of ore, and can easily be added to when installed.

oxidized gold ores in which the metal is so fine as to defy amalgamation have given good results.

(12) Where an ore is heavily mineralized the adoption of the oil process by no means precludes the employment of water concentration plants...

(13) Where gold occurs both finely disseminated through the quartz or other matrix, and also in association with pyrites, tellurides, or refractory minerals, the oil process offers a ready means of treatment.

(14) The readiness with which the finest mineral particles are retained by oil renders possible in many instances the recovery of slimes which are otherwise lost.

(15) It should be remembered that, as a metallic oxide is not saved by oil, although it may be recovered by the oil, it is not recovered by the oil.

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Many mining men of world-wide reputation have expressed their favorable opinion of the Elmore process, amongst them being: Seymour H. Bailey, San Francisco; Daniel C. Griffin, Berkeley, Cal.; J. D. Kendall, London; Henry Louis, of the Durban college of South Africa.

Mr. Kendall, whose opinion is especially interesting to British Columbians, writes as follows: DASHWOOD HOUSE, NEW BRIDGE ST., LONDON, E.C. 4, ENGLAND, July 18, 1901.

Dear Sir,—In reply to your enquiry I have the pleasure to give you my opinion as to the Elmore oil concentration process.

I have examined, whilst in the laboratory, the plant erected in Wales, for the purpose of concentrating the yellow copper ore from the Glamis mine, and have found that the percentage of loss is about 58 per cent. of the values as compared with the loss by ordinary water concentration as shown by the best material which could be got.

I have also examined the plant erected in Wales, for the purpose of concentrating the yellow copper ore from the Glamis mine, and have found that the percentage of loss is about 58 per cent. of the values as compared with the loss by ordinary water concentration as shown by the best material which could be got.

I am, yours faithfully, J. D. KENDALL.

Never is time more precious than when one is a member of the family. It is a fact that the Elmore process is a most valuable one.

The Annual Rifle Meet

Splendid Prize List is Made Up For This Year's Competition.

Large Number of Competitors Will Be Here From All Parts.

As already announced by the issue of the official prize list, the twenty-ninth annual rifle meet of the B. C. Rifle Association will be held at the Clover Point range on Thursday the 31st instant, continuing throughout the two following days.

The firing will begin on Thursday, the 31st July, at 8 a. m., with the extra series of 500 yards, and the following matches will be contested on the two following days.

No. 1—Tyro Match—Five hundred yards, seven shots at 100 yards, 10 shots at 200 yards, 10 shots at 300 yards, 10 shots at 400 yards, 10 shots at 500 yards.

No. 2—Victoria Corporation Match—500 yards, 10 shots at 100 yards, 10 shots at 200 yards, 10 shots at 300 yards, 10 shots at 400 yards, 10 shots at 500 yards.

No. 3—Helmcken Match—200, 500 and 800 yards, 7 shots at each range—Fifty one cash prizes, value \$130.

No. 4—Vancouver Corporation Match—500 yards, 10 shots at 100 yards, 10 shots at 200 yards, 10 shots at 300 yards, 10 shots at 400 yards, 10 shots at 500 yards.

No. 5—Vancouver Bankers' Match—500 yards, 10 shots at 100 yards, 10 shots at 200 yards, 10 shots at 300 yards, 10 shots at 400 yards, 10 shots at 500 yards.

No. 6—Grand Aggregate—For the aggregate of scores in matches Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30.

No. 7—Ottawa Team—This match provides for the conditions under which the Ottawa team will compete in the B. C. Rifle Association matches at the D. R. A. matches of this year.

No. 8—The Service Match—500 yards, 10 shots at 100 yards, 10 shots at 200 yards, 10 shots at 300 yards, 10 shots at 400 yards, 10 shots at 500 yards.

No. 9—The Transvaal Cup Match—500 yards, 10 shots at 100 yards, 10 shots at 200 yards, 10 shots at 300 yards, 10 shots at 400 yards, 10 shots at 500 yards.

The meeting will be conducted under the supervision of Lieut. Col. F. B. Lottinier, K. C. M. G., for his donation of the prize money.

Soldiers Back From London

Two Members of Coronation Contingent Return and Tell of Their Trip.

Delighted With the Hospitable Treatment Received in the Old Country.

Trooper W. Winkle, who served in South Africa with Strathcona's Horse, and Gunner Smethurst, of the Fifth Regiment, who was a private of the First Canadian Contingent to South Africa, are home from London, where they went as members of the Coronation contingent.

They were also with a pleasant trip, and said the story of the Coronation contingent of the Colonial contingent in London, given by the Associated Press— which says British events with United States glasses, was untrue.

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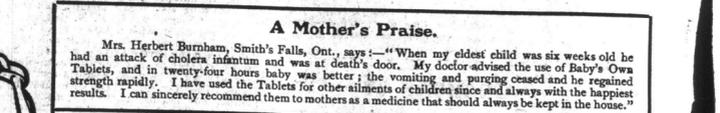
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Baby's Own Tablets.

When the weather is hot the sands of the little life are apt to glide away before you know it. You can't watch the little ones too carefully at this period.

Dysentery, diarrhoea, cholera infantum and disorders of the stomach are alarmingly frequent during the hot, moist weather of the summer months.

At the first sign of any of these, or any of the other ailments that afflict little ones, give these Tablets which speedily relieve and promptly cure all hot weather ailments. Keep them in the house—their prompt use may save a precious little life.



A Mother's Praise. Mrs. Herbert Burnham, Smith's Falls, Ont., says:—"When my eldest child was six weeks old he had an attack of cholera infantum and was at death's door. My doctor advised the use of Baby's Own Tablets, and in twenty-four hours baby was better; the vomiting and purging ceased and he regained strength rapidly. I have used the Tablets for other ailments of children since and always with the happiest results. I can sincerely recommend them to mothers as a medicine that should always be kept in the house."

Little ones thrive, are good natured and grow plump and rosy in homes where Baby's Own Tablets are used. Children take them as readily as candy, and crushed to a powder they can be given to the youngest infant with the best of results.

Sold at drug stores or you can get them post paid at 25 cents a box by writing direct to The Dr. Williams' Medicine Co., Brockville, Ont., or Schenectady, N.Y.

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FORLY-FOURTH Winnipeg

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An Australian Visit. Grand Results From Fast Line. Work of Red Cross Society of Victoria, Ontario.

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