

FIELD PROCESS OF SMELTING ORE MOST ECONOMICAL

By W. W. WATSON.

While considering the gross value of the vast bodies of ores of various kinds in this neglected mineral district and the means of their extraction and treatment, it is well to take into consideration the processes that will produce the best results commercially. The blast furnace process is well known; but in this age of progress, when the inventive genius of the world is producing sensations in almost every department of human ambition, the great wonder is that the large interests engaged in mining for precious metals have endured the old way so long and so patiently.

Among those locally who have for some time been carefully investigating the field process is Judge W. E. Crews, who is probably more competent to speak of that somewhat startling invention that anyone else in this district. Concerning it, Judge Crews, in a statement replete with interest, said today:

Tremendous Waste.

"The tremendous waste occasioned in the extraction, hauling, shipping and treating of the ores of the Blue Lodge copper district by the present methods employed by the blast furnace smelters at Tacoma, Kennett and elsewhere, when carefully considered, is simply appalling. When you take into consideration that these ores contain over 30 per cent sulphur, large quantities of iron and some zinc, as well as copper, gold and silver, and by analysis you will find that at least one-third of the true values consist in products other than the copper, gold and silver; and considering that all of the values other than the last three mentioned are wasted or lost to the shipper, and he only receives returns on the copper, gold and silver content, and much of that is lost on account of the method employed, by reason of the high temperature in the blast furnace practice, slag loss, etc., it therefore becomes interesting to study and consider the method of treating sulphide ores such as are found in the Blue Lodge district by what is known as the field processes.

Smelter Fumes.

"Anyone who has given ore treatment any consideration whatever realizes that the great cost, trouble and misery those who employ the blast furnaces have been subjected to on account of what is known as smelter fumes (which is nothing more than throwing off through their smokestacks the sulphur, arsenic and other properties which are destructive to plant life), is an element in smelter operation, to overcome which scientists have apparently been completely baffled, and on account of which they have not been allowed to erect and operate such smelters in forest reserves or other places where vegetation or plant life is of any value.

"Now, the field processes completely control, utilize and save the so-called smelter fumes, which in fact constitute a very large portion of the real value of the ores. He has therefore, after a careful investigation by the government agents and through demonstrations on his own part by a plant built and operated for that purpose at Redding, Cal., been permitted by the government to operate his plant in any forest reserve or elsewhere, and his company guarantees that no objectionable fumes or gases or other destructive features will be apparent. And he proposes to treat ores and save every particle of the values contained in the same for a far less price per ton than is now charged by the smelters in this country.

Have Had Their Day.

"A careful consideration and study of this process will convince one that within ten years there will not be one of the old-time wasteful blast furnace smelters in operation in this country, but that the clean, economical and complete value-saving process proposed by Mr. Field will take their place.

"One can plainly see that the amount of ore that can be handled by this process is only measured by the size of the plant. This is in fact not a new process as far as the metallurgy end is concerned. The new idea consists in the doing away with the fumes by simply saving them, which is a very large part of the ore value. The chemical extraction of metals is a very old and popular method and is in practice in foreign countries where acids are cheaply produced.

"If Mr. Field is inclined to erect and establish a plant in southern Oregon I am satisfied that he will be able to operate at a profit on lower grade ores which cannot be done by the present day methods. And when we consider the great tonnage of low grade ores in southern Oregon that the smelters can't handle because of their metallic loss occasioned by the high temperature employed in the blast furnace practice, slag loss and

CHIEF FIGURES IN INAUGURATION DAY SUFFRAGE ACTIVITIES



Miss Vida Milholland, in the center, is the successor to her sister, the late Inez Milholland Boisevain, who led the suffrage parade on inauguration day four years ago. Others prominent in the day's news in Washington are: Mrs. J. A. Hopkins (upper left), Mrs. O. H. P. Belmont (left), and Miss Alice Paul (beneath), Miss Beulah Amidon (upper right), Miss Anne Martin and Miss Edith Goode (left to right) below.

PRESIDENT GRILLS DOZEN SENATORS WHO BLOCKED ACTION

WASHINGTON, March 6.—The statement issued by the president concerning the action of a dozen senators in killing the armed neutrality bill by filibuster is in part as follows:

"The termination of the last session of the sixty-fourth congress by constitutional limitation discloses a situation unparalleled in the history of the country, perhaps unparalleled in the history of any modern government.

Falls in a Crisis.

In the immediate presence of a crisis fraught with more subtle and far-reaching possibilities of national danger than any other the government has known within the whole history of its international relations, the congress has been unable to act either to safeguard the country or to vindicate the elementary rights of its citizens.

"More than 500 of the 531 members of the two houses were ready and anxious to act; the house of representatives had acted, by an overwhelming majority; but the senate was unable to act because a little group of eleven senators had determined that it should not.

Physical Endurance Supreme.

"The senate has no rules by which debate can be limited or brought to an end, no rules by which dilatory tactics of any kind can be prevented. A single member can stand in the way of action if he had but the physical endurance. The result in this case is a complete paralysis alike of the legislative and of the executive branches of the government.

"This inability of the senate to act has rendered some of the most necessary legislation of the session impossible, at a time when the need for it was most pressing and most evident.

"The appropriations for the army have failed, along with the appropriations for the civil establishment of the government, the appropriations for the military academy at West Point, and the general deficiency bill. It has proved impossible to extend the powers of the shipping board to meet the special needs of the new situation into which our commerce has been forced or to increase the gold reserve of our national banking system to meet the unusual circumstances of the existing financial situation.

Only One Remedy Presented.

"The senate of the United States is the only legislative body in the world that cannot act when its majority is ready for action. A little group of willful men, representing no opinion but their own, have rendered the great government of the United States helpless and contemptible.

"The remedy? There is but one remedy. That is the rules of the senate shall be so altered that it can act. The country can be relied upon to draw the moral. I believe that the senate can be relied upon to supply the means of action and save the country from disaster."

the loss of their sulphur and arsenic value, we ought at least to offer all the encouragement possible to secure his plant for the treatment of our ores."

WERNER HORN LOSES APPEAL

WASHINGTON, March 6.—Werner Horn, the German reservist lieutenant who dynamited the international bridge near Vaneboro, Me., in 1915, today lost his habeas corpus suit in the supreme court, in which he sought to avoid being tried at Boston for alleged transportation of explosives on passenger trains.

The court did not decide Horn's contentions that, in a belligerent act against Canada, his German army commission exempted him from American prosecution and made him punishable only by the state department. The court said Horn's appeal was not authorized and dismissed it.

MINISTERS ENDORSE ACTION OF LEGISLATORS

At the regular Monday meeting of the Ministerial association of Medford and vicinity the following resolution was unanimously adopted:

"Resolved, That we express our appreciation and indorsement of our representatives in the good work that they have done in the state legislature; that we likewise express our appreciation and indorsement of our city officials in the good work that they are doing in cleaning up questionable places in the city."

Members present and voting: A. A. J. Hoger, president; J. D. Wylie, secretary; F. W. Carstens, J. K. Baillie, W. P. Smith.

Dry, Hoarse or Painful Coughs Quickly Ended

Home-Made Remedy that Saves You \$2—Does the Work Thoroughly.

The prompt and positive action of this simple, inexpensive home-made remedy in quickly healing the inflamed or swollen membranes of the throat, chest or bronchial tubes and breaking up tight coughs, has caused it to be used in more homes than any other cough remedy. Under its healing, soothing influence, chest soreness goes, phlegm loosens, breathing becomes easier, tickling in throat stops and you get a good night's restful sleep. The usual throat and chest colds are conquered by it in 24 hours or less. Nothing better for bronchitis, hoarseness, croup, whooping cough, bronchial asthma or winter coughs.

To make this splendid cough syrup, pour 2 1/2 ounces of Pinex (50 cents worth), into a pint bottle and fill the bottle with plain granulated sugar syrup and shake thoroughly. You then have a full pint—a family supply—of a much better cough syrup than you could buy ready-made for \$2.50. Keeps perfectly and children love its pleasant taste.

Pinex is a special and highly concentrated compound of genuine Norway pine extract, combined with quinine and is known the world over for its promptness, ease and certainty in overcoming stubborn coughs and chest colds. To avoid disappointment, ask your druggist for "2 1/2 ounces of Pinex" with full directions, and don't accept any other size. Guaranteed to give absolute satisfaction or money promptly refunded. The Pinex Co., Ft. Wayne, Ind.

SOUTHERN PACIFIC MAY RETAIN ITS STEAMER LINES

WASHINGTON, March 6.—The interstate commerce commission in a decision handed down today indicated that the Southern Pacific may retain possession of its steamship lines between New York and New Orleans and New York and Galveston if the company correct within sixty days certain objectionable practices at present in force.

Under the Panama canal law the railroad company would have to dispose of the steamers unless the commission found that railroad ownership did not tend to reduce competition by water and that such ownership was in public interest.

The commission's decision today finds that the railroad's control of the steamship lines does not tend to reduce competition in this instance, but that there is on the contrary, active competition for trans-continental freight between the steamship lines and the railroad lines of the Southern Pacific.

"The correction of objectionable

Bud Lawrentz has purchased an interest with G. F. Williams in the

Medford Cleaning Works
All kinds of cleaning work guaranteed. We call for and deliver goods.
Phone 57 8 S. Central

AUTOMOBILE OWNERS

Do you know that the Crater Lake Garage has one of the best equipped machine shops between Portland and Sacramento? Expert mechanics who have the ability to work on any make of car.
Acetylene welding.
First-Class Service.
Our work guaranteed.

Crater Lake Garage
Court Hall, Prop.

Plant Now
Sweet Peas, Parsnips and all Morse's Grand Prize
California Seeds

Callabe, Carrot, Onion, Beets, Peas, Spinach, Turnip Seeds should be planted at once. Don't take seeds that are "just as good." Get Morse's.
On Sale by all Leading Dealers
If your dealer does not carry Morse's Seeds, send direct. See our catalogue. Free. Your order will be promptly attended to.
G. C. MORSE & CO.
Seedsmen San Francisco

practices," the decision says, "would leave no basis of record to justify the withholding of the requisite findings under the act, that the existing service of these steamship lines between New York and New Orleans and New York and Galveston is in the interest of the public and of advantage to the convenience and commerce of the people.

"The case will be held open for 60 days during which time the petitioner will have an opportunity to readjust the practices in question so as to

bring the service into full conformity with the provisions of the act to regulate commerce as amended. At the expiration of that time the commission will determine what final action should be taken."

The chief practice referred to as objectionable is the method of billing from New York to Galveston and re-billing at Galveston to western points. The commission found that no competition existed in the case of lines operating between New Orleans and Havana.

ADAMSON LAW NOT DECIDED BY COURT

WASHINGTON, March 6.—The decision on the constitutionality of the Adamson railroad law was not announced today by the supreme court, although it had been expected.

Accomplishing "the impossible" in a cigarette!

It is years back since smokers have heard of any NEW quality in a cigarette.

But here, at last, is a cigarette that has accomplished "the impossible", namely:

A cigarette that satisfies, and yet is MILD—Chesterfields!

For the first time in the history of cigarettes, you are offered this new kind of enjoyment!

No cigarette, at any price, can give you this new enjoyment—except Chesterfields!

Why?

Because no cigarette maker can copy the Chesterfield blend!

Try Chesterfields—today

Loggatt's Mypers Tobacco Co.

Chesterfield CIGARETTES

*The Chesterfield Blend contains the most famous Turkish tobacco —SAMSOUN for richness; CAVALLA for aroma; SMYRNA for sweetness; SANTAHI for fragrance, combined with the best domestic leaf.
They SATISFY!
—and yet they're MILD

Here is a man who has paid out his good money in advance for a suit of clothes he never saw. If he had only been wise in the first place, he would have bought that suit of clothes at home. Then he would have been assured of a good fit, the same quality of goods at a lower price. Yes, the home merchant can beat the catalog man on prices every time. That has been proved time and again. But people are only very slowly beginning to know it. The catalog business is so huge, its arguments are so impudent and overbearing that many a man is persuaded against his own judgment. He is carried off his feet and literally stamped into doing things he would not dream of doing if left alone to think it out by himself. Neighbor, don't be stampeded by that picture. Tear it out and bring it to your home dealer. Figure it out with your home merchant. Get together with him. He wants to give you a square deal. Keep your money in your pocket till you are SURE.