OREGON FURNACE IS MARVELOUS SMELTER

Black Butte Plant Successfully Generates Gas From Wood Fuel and Reduces Cinnabar in From a Third to One Fourth of Usual Smelting Time.

ALL NOXIOUS GASES ELIMINATED FROM THE DRAUGHT

Manager W. B. Dennis, the Well-Known Mining Engineer, Crowning Two Years' Experiments in Mercury Metallurgy With Some Remarkable Improvements Over Scott Plant.

An Gregon man has perfected a smelt-ing furnace that seems destined to com-mand national attention among the min-ing fraternity, W. B. Dennis, manager

In the Transe that seems destined to commend national attention among the function flag featers, W. B. Dennis, manager in the feater of the company of the feater o

HIGHLAND PLANT IS TO BE ENLARGED

Manager Sorensen Here to Buy Additional Mill for Immediate Installation.

ducers of the eastern Oregon district when it is properly equipped for hand-

ling the ore reserves already in sight.

has been able to output from six to ten

SMELTER TESTS GOOD

ALMEDA COMPANY

HE IS ACCOMPANIED BY EASTERN ASSOCIATES

Promising Young Mine That Has

Been Brought Out in About

Two Years.

work in progress. It was discovered in the late '\$0s, when heavy work began on the Cracker creek lode properties, the Highland being on an extension of this same zone. Marshall H. Knapp, a well-known prospector of the district, did early work there, and held to the group without doing more than assessment for more than 20 years. Mr. Sorensen organized the Highland company, in which the former owner was inter-

good work the past year is soon to have in which the former owner was intersected, and began development. Last fall production commenced. Crude ore was at first shipped, and late in the season ager N. J. Sorenson is in the city to the present experimental concentrator buy the additional machinery, which is was finished. Since then the Highland to be installed immediately, and within the next 60 days the Highland is exthe next 60 days the Highland is expected to be producing concentrates at the capacity of the new plant. An Elspass mill is to be added to the roll-jaw crusher for further grinding, and such the radditions to the concentrating tables as are necessary will be made.

"We will complete the mill on the lines originally designed," said Mr. Sorenson last evening. "This work is to be pressed at once, and will be finished on time." The ore reserves opened in the Highland warrant much larger work.

the Highland warrant much larger work and those interested in the company are

Baking Powder

President O. M. Crouch and Manager J. H. Wickham of the Almeda company have returned from San Francisco, where they were present at a smelting test of their ores. They took an average sumple throughout the property, taking ore from 1.700 feet of underground work and portions of the cropping, as well as from open cuts that have been made to prove the continuity of the ore shoot. The test was for final determination by the manufacturers of the amenability of Almeda ores to the smelting process contemplated, and the owners of the property were invited to be present to observe results. IS A BOONE To the Housewife average ore from the mine, which was di-vided into 100-pound charges and put through a 13-inch Vencedora furnace.

She knows that she need no She is always certain of success, and saves two-thirds of her baking powder money.

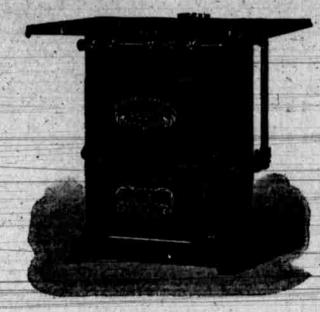
25 Ounces for 25 cents of 125.75. The matte product in this test, longer fear failures in her baking.

Warm Weather Suggestions

Buy a Gas Range

Then read over carefully and follow out the following suggestions and you will enjoy the coming summer, no matter if it is a hot one.

GAS AN ECONOMICAL FUEL



PERTINENT SUGGESTIONS

1-Top burners should not be lighted until ready to use them. Oven burners lighted but a few moments before using, according to the temperature desired. Make all preparations first and then use only heat enough to accomplish the work to be done. In cooking, as soon as the water boils, turn down the fire-you can't make the water any hotter.

2 Extinguish and relight the burners between operations. Turn off the burners the instant the work is done. Perfect results are obtained by using just so much, no more nor less gas than is required. .

3—Learn the value of simmering burner.
4—Plan your meals so that when the oven is in use you can do most of the cooking in the oven. Vegetables and fruits usually cooked over top burners may be transferred to oven, saving the gas and losing no flavor in

-Follow these simple rules and with a little thinking and planning you will be able to make the gas bill exceedingly reasonable, and have a lot more comfort besides than could possibly be gained with the use of any

THE PURCHASE PRICE of a GAS RANGE now includes installingthat is, for the purchase price we will set it up ready for use, which includes a run of 40 feet of pipe. On a cash sale or if you pay for it within 30 days, we make you a discount of 10 per cent. Where a fuel stub is already in the kitchen and no pipe is necessary a discount of 20 per cent is made.

Portland Gas Company FIFTH AND YAMHILL STS.

ready to put the property on a proper basis for its best results."

Mr. Sorenson is accompanied to this city by Ed B. Diehl, a prominent busicity by Ed B. Diehl, a prominent business man of Pennsylvania, who is one of the heaviest stockholders of the company. Mr. Diehl has spent considerable time at the mine examining it, and was assisted by J. T. Lovett of Chicago, who is a veteran of western mining camps. These gentlemen are highly pleased with the showing at the property, and are of the opinion that the Highland will become one of the heaviest producers of the eastern Oregon district n actual work, but in a large furnace the cake charge is warranted to be not to exceed a per cent. and with an average of 20 per cent sulphur in the ore, as the general samples prove, there should be a pure pyritic fusion for considerable periods at least. Metallurgists at work on the tests paid

the ores a high compliment as a smelt-ing proposition, saying they had never handled anything that fused more readily. Privately, outside the conditions of the warranty that will be made in erecting the plant, the metallurgists were of the opinion that in actual working practice, with a furnace measuring 95 inches at accomplished in a very brief period, giving the furnace nearly double the capacity indicated by the manufacturers.

The cost of reduction by this matting plant is warranted to be \$2 to \$2.15, and there is a confident belief that the figure may be brought down to \$1.25 to \$1.50. may be brought down to \$1.25 to \$1.50, which would be a remarkable record for a plant of that size and for any Oregon property. Granby has the world's record for smelting and is able to bring costs Manager Wickham stated last evening that his people were highly pleased with the latest tests made, and that actual figures fully sustained all that the man-

agement had predicted. In addition to driving the various drifts now under way, future development will embrace sinking. As Almeda ores carry a higher per cent of mineral at depth so far attained it is The belief that another 500 feet will bring the management to zones where a much less proportion of silica is carried. The percentage of copper is also naturally expected to increase materially about grade with the vast reserves of the surface ores the proper proportion of silica and carrying minerals may be maintained to the satisfaction of any schelter superintendent,

MILLIONAIRE REFUSES TO AID HIS BROTHER

(Journal Special Service.) New York, May 30 .- Glovanni Mor



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SPECIAL

TEETH FREE

Extracting cleaning and examination FREE during all this week. The Boston Painless Dentists will give the be limited, but later it was found that Don't put it off, but come in at once, there was plenty of iron. A small quantity of lime will have to be added for 16 years. reputation for the Boston Dentists. 291% Morrison street.



SILVER FILLINGS35¢ GOLD FILLINGS75¢

Boston Painless Dentists Morrison St., Opp. Meier & Prank and Old Postornee.

HOURS-8:30 a, m. to 6 p. m. Sun-day, 8:30 a. m. to 12:30 p. m.

millionaire banker, has just on record to the effect that he would not support his indigent relatives. The declaration is provoked by the recent arrival at Montevideo of an elderly man who says that he is Moresini's brother and has come for an annuity. He has not yet been seen by Moresini's but has been informed by the latter, agents that his fare back from Montecentage of copper is a controlled to increase materially about agents that his fare back from Monte-water-level zone. By mixing this wideo will be paid by the banker. In de with the wast reserves of the face ores the proper proportion of ca and carrying minerals may be relatives! This man may be my intained to the satisfaction of any brother; I don't care whether he is or the controlled to the satisfaction of any brother; I don't care whether he is or the controlled to the satisfaction of any brother; I don't care whether he is or the controlled to the satisfaction of any brother; I don't care whether he is or the controlled to the satisfaction of any brother; I don't care whether he is or the controlled to the satisfaction of any brother; I don't care whether he is or the controlled to the satisfaction of any brother; I don't care whether he is or the controlled to the controlled to the satisfaction of any brother. brother; I don't care whether he is or not. I have not seen him for 60 years, if he is my brother. It is like black-mail for him to come here and demand an annuity from me. I sent my agent to tell him that I do not want to see him, and all that I would do would be to send him back home.

"Because I have made a fortune is no reason why all my indigent relatives should-try to live upon me."

GRAND BAPIDS PESTIVAL.

(Journal Special Service.)

Grand Rapids, Mich., May 30.—The third annual May music festival which opened here this afternoon promises to be a great success, both financially and artistically. The participants this year include the Theodore Thomas orchestra of Chicago, Frederick A. Stock conducting, and a chorus of several hundred voices. The notable soloists include Madame Louise Homer, contraito;

A Disastrons Calamity.

It is a disastrous calamity, when you lose your health, because indigestion, and constipation have sapped it away. Prompt relief can be had in Dr. King's New Life Pills. They build up your digestive organs, and cure headache, dizziness, colic, constipation, etc. Guaranteed at Red Cross Pharmacy, Sixth and Oak streets. On the way to the post-office.

Hotel Detroit

OPENED MAY 15

This elegantly equipped hotel, newly and completely furnished throughout, is now

open to the public. ONE BLOCK from main entrance to Fair

Rates Reasonable. Special Rates to Permanent Guests

Magnificent free observatory for guests, overlooking Fair Grounds and city. Take "M" streetcar from Union depot direct to Hotel De-

J. C. GRIFFIN, Proprietor. Cor. Twenty-seventh and Thurman Sts.

Hotel Fairmount

Will Be Open for Guests, Thursday, May 25th Opposite Main Entrance to Lewis and Clark Exposition

Only absolutely fireproof hotel adjoining grounds, equipped with electric calibells and special telephonic communications for patrons, Uniformed porters and beliboys at all hours at guests' service.

Rates \$1 a Day and Up

W. H. LATTIN, General Manager

26th and Upshur Streets 150 Elegant Rooms Open for Guests

Mademoiselle Anita Rio, soprano; David Bispham, baritone; Theodor Bohlmann, planist; Holmes Cowper, tenor; Mrs. Minnie Fiah-Griffin, soprano, and Ma-

EISTEDDPOD AT SCRANTON.

(Journal Special Service.) Scranton, Pa., May 30.—A national

steddfod under the auspices of the attional Eisteddfod association of ortheastern Fennsylvania opened here

northeastern Fennsylvania opened here today and will continue over tomorrow. The city is elaborately decorated in honor of the visitors, who number many score and come from several states. The program provides for many literary and musical competitions, for which prizes aggregating several thousand dollars are offered.

WISE BROS., Dentists



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leached by the Oregon Wate Power & Ry. Co. Trolley Line.

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P. C. MESSLY at the Portland Informa-tion and Booking Agency. Hotel Portland.

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