

## MORE RICH ROCK FROM MT. RASTUS

### Major Bonta Orders Extensive Work on His Claims To Be Done.

Jacob Erpenbeck, the Philadelphia millionaire, who accompanied Major J. W. Bonta to Oregon last week, returned Monday from a trip to the Mount Rastus district. He was shown the workings of the Excelsior and First Site claims and got his first view of gold in its native and free state. With an enthusiasm perfectly justified under the circumstances he secured two claims on Murray Hill and when he arrived in Baker City immediately made arrangements for doing development work on a large scale.

E. A. Hutchins, who located a group of claims for Major Bonta, has been instructed by his principal to expend \$5,000 on the group as quickly as possible.

To a Herald man the Major said this morning:

"There seems to be a division of opinion as to whether there is any phonolite in the CampCreek country. One man says there is and another maintains the contrary. I personally don't care a snap of my fingers what the formation is, provided it carries gold. It may be phonolite or petrified buffalo chips—if it is auriferous, I am satisfied."

The Baker City-Oregon Wonder electric railway will run within a few miles of Mount Rastus and Major Bonta desires that development work be at once performed on this group of claims, in order that he may determine whether or not to build a branch line to the new camp. —Herald.

### HENDRYX CYANIDE PROCESS EXPLAINED

The first account furnished the public by Dr. W. A. Hendryx on his new cyaniding process, which is expected to work wonders on treating Republic ores, is given in The Spokesman-Review. Dr. Hendryx says:

"It is a process for the extraction of the precious metals from ores and mill tailings by means of cyanide of potassium in very dilute solution (usually one pound of cyanide per ton of water) and depositing the metals so dissolved upon metal plates by the agency of an electric current. The essential mechanical feature is the Hendryx agitator, which consists of a cylindrical tank having a conical bottom. In the center of the tank is a cylindrical well, in which a vertical shaft revolves, carrying two or more screw propellers, and driven by a pulley above the tank. In the tank, outside the well, the anode and cathode plates are placed and supplied with current from a small dynamo.

The ore is crushed to the proper fineness and charged into the agitator, together with the water and chemicals. The revolution of the propellers in the well creates a strong upward current there, which immediately starts agitation in the tank and circulation of the whole charge

upward through the well and downward through the electrically charged plates. Thus extraction of the gold and silver by cyanide, through the aeration of the charge, and deposition of the precious metals are going out at the same time.

"When the extraction is completed, which takes usually from four to eight hours, a valve is opened in the bottom of the tank and the whole contents discharged into a settler, whence the solution is pumped back to a storage tank for further use, and the exhausted tailings run to waste.

"The claims made for the process are: First, that it will extract all the values that any cyanide process can; second, that it will deposit the precious metals in the form of marketable bullion without the intervention of any troublesome precipitating and refining process; third, that it will make the extraction with less cyanide, on account of the perfect aeration and the regenerating action of the electric current; fourth, that it will do this work at a much less expense for plant and operating costs than the ordinary methods; fifth, that it is especially adapted to handling tailings from amalgamation and concentration plants already equipped and running."

A small plant is now running in the ore testing works of C. M. Fassett, 702 Main avenue, Spokane, Washington.

The cost of crushing a sample of 100 pounds and testing it by the Hendryx process is \$25, which includes assays of heads and tailings and solution every two hours during the run, also a complete report of the chemicals used, temperature and cyanide consumed, as well as percentage of extraction and probable cost of working the ore. In some instances a single run will demonstrate the adaptability of this process to an ore. In others, two or more trials at different fineness of ore or with different chemical or electrical conditions are desirable, and if the ore carries much free gold it is necessary to make an amalgamation test before cyaniding. For a thorough test, a sample of 300 pounds should be sent and the charges will run from \$50 to \$100, depending upon the work required. These tests are made under the personal supervision of Mr. Fassett, and the results are reported and certified to by him.

### PERSONAL MAGNETISM AS TAUGHT BY MAIL

"My good man, you can't talk mining to me. It is a humbug; nothing but an outright robbery."

Having spoken, a dark-eyed, shaggy-browed individual paced to and fro over the office rug. He was doing the tragedy act for the four hundredth time that month. It was always his beginning, because he thought it was impressive, and having taken a correspondence course in "personal magnetism," he was not at a loss to know how to chill the blood in the agent's veins.

Turning on his heels, his arms folded and his chin pressed into his collar, the man of worldly wisdom glared down with a glassy eye at the unfortunate mining man.

The agent didn't say a word.

Seeing that he had made the proper impression at the outset, the man of worldly wisdom sank into his chair, breathed a sigh and began just as lesson No 2 told him to do. That is, he did what the Melancholy Dane did—only worse.

"S-i-r!" he rolled out, "I am a man well along in years and I have had a w-e-a of experience." Here he extended his arms to show the size of the sea. "During me travels I have been in many, many lands, I have made money—barrels of it, oceans of it, tons of it, and I have lost all but a paltry house and a lot in the suburbs."

"But we can get around that all right. If you don't want too much time, I'll fix your installments."

"Do you think, dear sir, that I would buy? Do you know who you are addressing?"

The Eighth Wonder of the World looked fiercely at the mining man and the mining man gazed calmly at it.

"Why this sourness, brother?" asked the agent, feeling that he had a case of some kind of insanity to treat.

"Why? Why? Ha! ha!"—there wasn't much of a ring to this laugh, but it is part of the stage setting, so it must stand. "Ten years ago I was induced to put ten thousand dollars in a building and loan association. I lost it!"

"Naturally," suggested the mining agent.

"Seven years ago I put three thousand dollars in flying machine stock."

"That, I suppose, went up in the air, didn't it?" This from the mining man.

Without heeding this fling of veneer humor, the Eighth Wonder continued: "Five years back I absolutely donated four thousand more to a quicksilver proposition."

"Fleet-footed Mercury," chimed in the mining man.

"Three years ago I put eight thousand in Spindle Top."

"Another eight thousand in circulation," said the agent, figuring the while on the margin of the prospectus he carried.

"And last year—ah! last year!"

"I presume that your dealings then were with the referee in bankruptcy?" inquired the obliging man.

"Nay, brother; last year I began paying alimony."

"My good man," said the mining man, rising. "I could not take your money if you willed it. Your case is too sad, and besides, I believe that your'e a hoodoo."

And he left the reminiscent investor in tears—not at the agent's departure, but because on the morrow he had to write a one hundred-dollar check to his severed better half, as directed by the court.—Consolidated Mining Report.

### Consignment of Ore From Pyx.

The Sumpter Sampling Works has received a consignment of ore for treatment from the Pyx operated by A. E. F. Starr in the Greenhorns. The company continues to receive good patronage from neighboring properties, and the new industry is proving a decided success.

### Work at Alamo Mill.

J. P. McGuigau, superintendent of the Alamo is here today. He says that with the exception of the flume the new stamp mill is practically ready to operate. The flume is being completed as rapidly as possible and will be finished in a short time.

### Thinks Well of Copperopolis.

C. T. Mixer, of Salt Lake, returned today from making an examination of the Copperopolis for interested people. He is a mining engineer of experience. He states that this is a good property in his opinion.



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