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# Grizzly Gold Mining Company

Capital \$500,000

In 1,000,000 shares of the  
 par value of Fifty Cents  
 Each. Treasury Stock  
 400,000 shares.

FULL PAID AND NON-ASSESSABLE

## OPPORTUNITY

Treasury Stock at TEN CENTS Per Share

**CASH BASIS**—All Cash Purchasers Receive a Discount of Five Per Cent on the Investment.

**INSTALLMENT BASIS**—Purchasers May Secure Stock in Blocks of 1000 Shares and Upwards, Payable 10 Per Cent Down and 10 Per Cent Each Month Until Paid.

### GRIZZLY STOCK

Affords an opportunity for profitable investment that cannot be equaled in the Sumpter District. Our new prospectus will be ready for mailing this week, giving a cross-sectional view of the workings of the mine and showing present development. A contract will be let at once for 200 feet more work and before this is completed the price of stock will be advanced. **THE GRIZZLY is destined to become a great mine.** Secure this stock now at 10 cents.

**REMEMBER,** The famous Le Roi stock sold as low as 3 cents per share, and today is quoted at \$65.00 on the London market.

For Prospectus and Further Information, address,

REFERENCES: FIRST BANK OF SUMPTER, SUMPTER, ORE.  
 CITIZENS BANK, BAKER CITY, OREGON

Grizzly Gold Mining Co., <sup>321</sup>MORRISON STREET Portland, Ore.

## NEW CONCENTRATION PROCESS.

Ores, Slimes and Tailings Reduced With the Aid of Crude Oil.

The London Mining Journal, in describing the Elmore ore concentration by crude oil process, says:

This process, which is now in operation at the Glasdir copper mines, at Dolgelly, North Wales, is adapted for concentration of ore, slimes and tailings by the use of oil, and constitutes a distinct new departure in the field of ore concentration. It does not depend on the difference in specific gravity of the rock and mineral treated, but on the surface condition of the material, certain surfaces being attachable to oil, while others are not. At the Glasdir mines the rock, raised, after passing through stone breakers, is crushed between rolls, and run thence to two Huntington mills, in which it is reduced to pass through a 30 hole screen. The wet pulp passes thence into the open end of a horizontal rotating drum, in which it is kept in constant agitation and propelled forward by a helix with cross blades.

With the pulp there is introduced a small quantity of petroleum residue. The oil sticks to and buoys up the particles of mineral that are floating about in the pulp, but has no effect upon the particles of rock present. The pulp and oil are discharged from the drum into a pointed box or spitzkasten, in which the rock particles settle and flow off with the water at the bottom, while the oil, carrying with it the ore, floats to the top and flows off continuously to a specially constructed centrifugal machine, where the oil is extracted from the ore, which is left in the machine, the oil being ready for use again. For close extraction, three mixing cylinders and a second centrifugal machine are used.

The plant treats 250 tons of ore weekly, and 80 per cent of the metal contained

being recovered. The mechanical contrivances are most ingenious, and altogether the results appear to be eminently satisfactory. Detailed results are given in the pamphlet of tests made on ores of a very varied nature. Antimonial gold ores and mercury ores, which present great difficulty in treatment by the ordinary method, gave by the oil process a very high extraction. Copper ores from South Africa and from Mexico gave very promising results, and experiments with fine gold, telluride and sulphide ores appear satisfactory. The process should be specially suitable in cases of difficulty by water concentration arising from brittleness or lightness of the minerals to be separated, or from heavy vein stuff accompanying the ore. The loss of oil is 1 to 3 gallons per ton of ore treated. The process certainly appears to have given most excellent results with the Glasdir ore, and should the knowledge of its application be extended it should have a great future before it.

## MAP GIVEN AWAY.

How to Get a Large One of the United States, for the Wall.

If you are going east, or thinking of sending for your family, do not buy your tickets until you have secured rates from the Illinois Central Railroad company. Their service is excelled by none, and they can reach all points in the east, south and southeast from any point in Oregon, Washington or Idaho. Through tourist car from Pacific Coast to New York.

If you will send fifteen cents in stamps to the address given below, we will forward you by return mail a large wall map of the United States, Cuba and Porto Rico, 34x40 inches.

For particulars regarding passenger or freight rates, call on or address,

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