

IN TAMMANY TUNNEL.

Looks Like Apex of a Rich Ore Shoot.

In a business letter to THE MINER, A. W. Anderson, secretary of the Tammany Gold Mining company, headquarters at Seattle, says: "Information from the mine, lately received, is to the effect that the winter quarters are now completed and work on the tunnel commenced."

The Tammany is located west of the North Pole, adjoining the Deer Lodge. As was stated in these columns two weeks since, the company has let a contract for 500 feet of tunnel work. The Seattle Times of last Friday says of this property:

A few days ago Secretary A. W. Anderson, of the Tammany Gold Mining company, received a communication from the party to whom the company had let a contract for driving a 500-foot tunnel. Concerning the surface indications the contractor writes:

"What little prospecting we have done convinces me that there is better ore in that hill than any you have taken out. I may be mistaken, but it looks to me like the apex of a rich ore shoot, where the four feet of rich quartz crop out. I found a couple of feet of highly mineralized slate lying alongside of the before mentioned quartz, but I have not had the slate assayed. If it were summer, it would be an easy matter to sink an incline and determine the extent and location of this high grade ore body, but as circumstances are, there is nothing to do but drive a tunnel."

"There are tons of float of high grade quartz lying around the side hill, so it looks like a strong vein."

Mining Activity at Sturgell Bar

General J. L. Weaver has returned from a visit to Powder river, Oregon, where he and associates own 800 acres of placer ground, which they have been operating for the past four years, with two giants and using the water from a ditch seven miles long. The gold found in that section is coarse and high grade, running from \$18 to \$20 per ounce. Sturgell bar, four miles above, and on the Oregon side of the Snake river, is quite active, and considerable gold has been taken out this season. The General will leave in a few days for a business trip to Boston.—Boise Statesman.

Shot From Shutt's Heavy Artillery.

The Gem cannot afford to lower itself to notice the starvation burks of little, jealous 284 bunco papers, that could not exist over night without incorporation aid. For this paper to stoop to a jangle with such little Fice curs, would be as ridiculous as for an elephant to quarrel with a hop louse.—Granite Gem.

Much Activity at the Sanger.

Development work is being pushed in preparing the Sanger mine in Union county for active operation, about twelve men being now employed there by the Sanger Development company, that recently secured the property. The work in the mine has been delayed owing to the non-arrival of new pumping machinery which has been over due for some time. The pumps will be necessary to clear the mine of water that the ore chutes may be opened up. The upper openings that are not filled with water are now being timbered. The company is now paying out about \$4000 a month and is said to be strongly financed and able to develop and operate this great property that in the past has produced over a million dollars worth of bullion. A contract was let a few days ago for furnishing the mine a

thousand cords of wood, which would indicate an extensive campaign there. The Sanger mine at one time ranked with the best in the country and employed nearly one hundred men. Sanger is on the Union-Cornucopia daily stage line and has an admirable location for a mine. The resumption of work at this mine is of great importance to this entire section of Union county.—Union County Republican.

IMPORTANT IMPROVEMENT.

Twenty-five Per Cent Saving in Cost of Fuel for Mining.

The most important improvement in recent years in connection with the mining industry in the west is now being made at the Pentose, one of the Home Mining company's properties of Leadville, Colo., according to the Mining Record. The importance of it will be appreciated when it is known that the cost of fuel is to be reduced 25 per cent, and probably a great deal more. The arrangement is for the burning of hydrocarbon gas, which is produced from petroleum. The process is of recent discovery, having been used for the first time not more than two years ago. The Home Mining company is the first in the west to avail itself of the use of the new discovery. The process of producing the gas is extremely simple and perfectly safe. The gas is not explosive, burns with a white heat, and is odorless.

The fuel gas is produced by pumping air through heated petroleum, which carries with it one part of hydrocarbon gas to nine parts of air, and the reduced cost is due to the newly discovered fact that the oxygen, which, united with this small quantity of gas, burns with an intense heat. Common air, or the oxygen in it, which comprises eight-ninths of it, is used as fuel, becoming highly combustible when mixed with the gas. At the Pentose boiler house there are five air-tight steel cylindrical tanks, 10 feet high and 5 feet in diameter, standing on end. In each of these will be placed crude petroleum to a depth of four feet. With coiled pipe inside the tanks this petroleum is heated to 185 degrees Fahrenheit, which heat is sufficient to throw off hydrocarbon gas. Air is pumped in at the bottom of the tanks, and being forced through a finely perforated false bottom, comes bubbling up through the petroleum, combining with the air and passing off in the fire boxes under the boilers.

A large air pump, capable of handling 500 cubic feet of air per minute, will be used, and a tank similar to one of the gas generating tanks will be used as a reservoir to prevent the pulsations of the pump from disturbing the uneven flow of the gas into the fire. The gas producing tanks now being put in will be of 400-horse power capacity, and will fire four large boilers at the Pentose, two 80 horse power and two 100-horse power, and a line will be conducted to the Starr shaft, where a boiler of 40-horse power will be fired.

To more perfectly utilize the gas, special furnaces have been devised, but at the Pentose the regular coal fire boxes will be used for the present. By this arrangement the burner where the blow pipe enters the door could readily be removed, should there be an occasion, and coal be used. There are four other boilers at the Pentose now being fired by coal, which will be equipped with gas producers when the ones now being erected have been thoroughly tested. If all be proven to be true that is claimed for the fuel, it will cause a revolution in the power producing problem.

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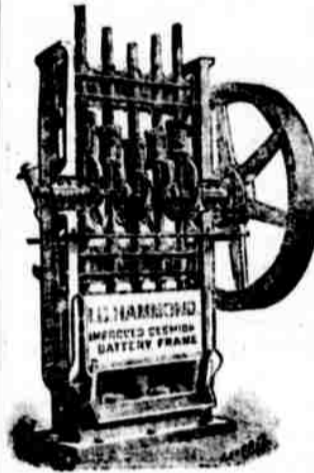
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