

# MINES AND MINING IN THE NORTHWEST

EDITED BY  
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## CYANIDE IN GILT EDGE

According to the West Fisher Gazette

### SHOWS UP EXCELLENTLY

**It Averages About Ten Dollars Per Ton and Can Be Traced a Long Distance—The West Fisher District Is Attracting Considerable Attention—A Promising Outlook**

The West Fisher mining district in the southwestern part of Flathead county is attracting considerable attention just now. There is no boom in that section, but there seems to be a steady growth of mining business. Of the general characteristics of the district the West Fisher Gazette, published at Foundation, says: To prospectors, investors and others who may be taking an interest in the West Fisher district, and have not had an opportunity to examine the country personally, a brief description of the gold belt will no doubt be appreciated. The free milling gold propositions upon which mills have been erected and are to be erected in the near future, as well as the most promising prospects, are located in West Fisher gulch, and those of its tributaries on the south, Mill, Bramlett, Fourth of July and Lake creeks.

Throughout this entire area the formation is slate, varying from a very soft slate through all degrees of hardness to a very hard, close-grained slate. Quartzite is found in limited quantities in some places, while porphyry is widely distributed, alternating with slate. Although some insist that a true porphyry dyke extends through this section from north to south, such is not generally conceded to be the case, development work in many instances proving that the porphyry is not continuous, but likely to change to slate, while work upon slate may lead into porphyry at any time. The slate is generally gray, but black, brown and blue are found in considerable quantities, while the porphyry differs as much if not even more, not only in color, but in general character. A few days ago a tunnel was inspected on Bramlett creek in which work was done a few months since, that has crumbled into a mass which, but for the color, might be mistaken for well slaked lime. The other extreme is a very hard, short-grained rock, which is often mistaken for quartzite.

With some exceptions, the values are found in white quartz. This, while running from fine ribbon quartz carrying free gold visible to the eye, not only in the cleavage but through the rock, to blocky "bull" quartz often sprinkled with gold, is remarkably free from barren rock, assays invariably showing more or less gold and ledges classed among the low grade in values often, in places, showing the highest.

So far as development has gone everything tends to prove the permanency of the ledges, with improvement in the quality of the rock.

An erroneous impression exists that all these ledges are "blankets." Such is by no means the case, many having a dip of 20 degrees to 45 degrees and even more. Formation ledges are the rule, but to this are some exceptions, and as a number of mining men familiar with the Murray mines pronounce conditions here almost identical, true fissure veins will in all probability be discovered here, as they have been there, upon thorough development.

The ledges in this camp have proven remarkably free from "faults," and as for the number of ledges it is too early to make an estimate, not less than ten being already exposed on Blacktail mountain alone. Some of these are quite small, but a number of them are very large. A peculiarity of these ledges is the position in which they are found, as the result of an upheaval or subsidence of the entire formation. They can be traced at or near the channels of the creeks up the mountain sides at an angle of 45 degrees or more, gradually assuming a more horizontal position until the outcrop becomes quite so, while the tunnels show a slight dip into the mountain.

To the south of the country we have described lies the Trail creek country, in which locations are being made. Conditions are much the same on Trail as to formation, etc., but there is so much timber, wash and vegetation that prospecting has been more difficult and it has been passed by. Still further south the country on the tributaries of Silver Butte Fisher is reached, in which silver lead ore is found in abundance as well as free gold. The formation is slate, and the general characteristics of this section are much the same as on West Fisher. Beginning on Goat and Great Northern mountains, which form the watershed between the headwaters of West Fisher and Libby creek, and adjoining the gold belt we have described, we pass at once into an extensive silver-lead belt, which is an unbroken line of mining claims for 30 miles to the Kootenai river.

North of West Fisher is what is known as the "lime belt," the formation of which is termed porphyritic lime, or lime porphyry. This is generally very soft, much of it being pick and shovel ground. Some very promising prospects have been opened up, and a good deal of work done with entirely satisfactory results. At the same time some of the richest float in the camp has been found on Standard creek, West Fisher and Miller creek, but so far prospectors have failed to locate the ledges. Some of the ledges opened up are fissure veins, while others are not.

Still to the south, between West Fisher and Fisher river, is situated a low, bald mountain upon which is found rich float in quantities, but no discoveries of im-

portance have been made. On the extreme head of West Fisher, as well as some places north of the stream, a high-grade ore is found which is not so free as that to the south, and which may require different treatment, but the values appear to be such as to justify whatever treatment may be required. In some of this ore a showing of silver is obtained that even exceeds in value the gold.

The gold belt in the slate formation, including the heads of Libby and reaching Trail creek on the south, which is quite well opened up, is about ten miles in length and five miles in width, while the lime belt on the east and adjoining it, is of about the same area. To the south is a country, practically untouched, of like indications and extent.

### FOR THE GOOD OF THE MINER

**A Former Butte Man Says He Had Almost a Monopoly of the Blue Bird Library.**

Not the least surprising thing in Cripple Creek to a western mining man is the interest shown by Woods Brothers, of the Gold Coin and other mines, in promoting the comfort of their many employees says Louis Janin, Jr., in the Engineer and Mining Journal. To this end they have erected (a former one having burned down) a handsome building well equipped with gymnastic apparatus, bowling alleys, billiard tables, library and reading room, baths and, perhaps what is fully as much appreciated, a bar from which beer and mild drinks are dispensed at reasonable prices. All these privileges may be enjoyed by any employee of the Gold Coin mine who has worked for a certain short period. The tariff for billiards, bowling and baths is merely nominal, being barely sufficient to pay the running expenses; the object in charging at all is to make the institution self-sustaining as far as possible, the members, however, enjoying the privileges of a well-equipped social and athletic club without payment of an initiation fee or monthly dues.

Occasionally at our western mines the comfort of the officers is well looked after, but the advantages of the Gold Coin club house are not confined to all employees. To the writer this is a novel departure in the west, considerably in advance of the well considered attempt of the Blue Bird mine, Butte, Mont., to assist the education of the miner by placing a library well selected—as it was the gift of Sir John Lubbock and his daughter, Mrs. Van Zandt—at the miners' disposal. After eight hours of severe work miners seek relaxation and amusement rather than brain work, so much so that a library is neglected. The writer when an employee of the Blue Bird company had a library usufruct of its library amounting almost to personal possession.

At the Gold Coin club house the athletic workman may rest his tired muscles by using others in mentally enjoyable exercise and when studiously inclined can find books and periodicals. Both classes can be satisfied. The club gives greater advantages than the saloon and should be a strong factor in promoting temperance as well as the formation of an esprit de corps.

With all these manifest advantages it is well to ask how it is received by the miners. By appearances it is well patronized, yet the writer was informed that less than half the miners had applied for membership. This is somewhat difficult to account for, yet this is related to in the populous Cripple Creek district. Owing to the difference in social conditions efforts in this direction will hardly be as ambitious as those of the Germans at several of their mines or those at some of our large industrial establishments, yet a disposition to consider the miners further than as an integer of work is as welcome as it is encouraging.

### GEN. WARREN INTERVIEWED

**He Has a Good Word to Say of Butte Mineral Wealth to a Spokane Reporter.**

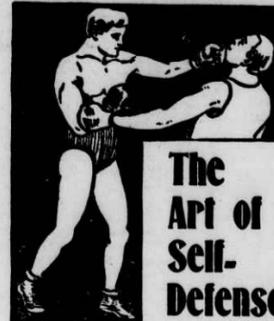
A recent issue of the Spokane Spokesman-Review contains an interview with General Charles F. Warren of this city in which Mr. Warren speaks confidently of the mineral output of Butte. "Unless something out of the ordinary happens, Butte will produce \$60,000,000 this year," said General Charles F. Warren of the copper city at the Hotel Spokane last night. "The chief dangers that now threaten a record-breaking output of metal is the litigation in which the mines are plunged. The Amalgamated Copper company, F. Aug. Heinze and W. A. Clark seem engaged in mutual wars of extermination, that are being carried on through the courts in a gigantic manner. The shutting down of the big properties, which is likely to happen at any time as a result of these suits, may interfere somewhat with the output for 1901, but it looks as if the camp will yield not less than \$60,000,000.

"I estimate that there are 75,000 people in Butte and the little towns surrounding the place. There must be fully 15,000 men at work. In six months the camp will be producing 16,000 tons of ore a day. The new Washoe plant at Anaconda will have a capacity of treating 6,000 tons of ore alone daily."

### THE FINE ORE OF GILT EDGE

**Cyanide Ore in Good Paying Quantities Cheer the Miners of Fergus County.**

Sellers and Suttler are working on a group of claims just north of Maiden gulch, in the Gilt Edge district, on which they have discovered some very fine cyanide ores, says the Fergus County Argus. On the Surprise claim, which lies immediately north of the Chickadee mines, they have exposed a body of cyanide ore in the carboniferous limes



### The Art of Self-Defense.

The popular idea expressed in the phrase, "the art of self-defense," shows the opinion that the chief enemies a man has to defend himself from are visible and external. But the real danger of every man is from minute and often invisible foes. In the air we breathe and the water we drink are countless minute organisms leagued against the health of the body. The one defense against these enemies is to keep the blood pure. Dr. Pierce's Golden Medical Discovery thoroughly purifies the blood, removing poisonous substances and accretions. When the blood is pure there is no harborage for the germs of disease which find a lodging only when the blood is impure and corrupt.

"I consider your 'Golden Medical Discovery' one of the best medicines on the face of the earth," writes Mr. Wm. H. H. of Red Oak, Montgomery Co., Iowa. "While in the southwest, three years ago, I got poisoned with poison ivy. The poison settled in my blood and the horrors I suffered cannot be told in words. I thought I would go crazy. I tried different kinds of medicine, tried different doctors, but all the relief they could give me was to make my pocket-book lighter. I then began taking Dr. Pierce's Golden Medical Discovery. Took four bottles without relief. Kept taking it. I took all ten bottles and got entirely cured."

Dr. Pierce's Pleasant Pellets cure constipation. That is identical with the Gilt Edge ores. This ore has been tapped at various places, extending over a distance of more than 600 feet along its course, and can be traced readily for that distance by the surface outcrop. Work has just been begun on a tunnel which is intended to be driven up the hill, where it is thought the ore will be found in place in the contact. This tunnel is in the hill about 15 feet and shows ore all the way. Assays received from the ores found at the surface vary from \$8 to \$14 and will average about \$10 per ton. Sellers & Suttler contemplate considerable development work on these properties and in a short time will make a mill test of a few tons of the ore. These claims are the farthest north of any yet discovered along the ore-bearing contact traversing the Gilt Edge district, but show the formation of those discovered farther south. Just south of Maiden gulch the same parties own a group of three claims on which they have shown ore, but a stony are very recent locations but little work has been accomplished on them as yet.

### The Coeur d'Alene's.

"The Coeur d'Alene's mining reports the scene of several recent discoveries of great importance," said Mr. W. T. Hales, a well-known mining operator who arrived from that district yesterday. "The Hercules Mining company, a little above Burke, opened a bonanza a few days ago, the ore being the richest ever found in that vicinity. The owners, Day, Hutton & Co., have been engaged in running a tunnel for 12 years and did not intersect the vein till last week after they had run 1,200 feet into the country rock. They report ten feet of ore carrying \$300 in silver and from 50 to 60 per cent lead. The find has naturally created much excitement.

The Humming Bird, near Burke, shows five feet of good ore.

The Charles Dickens, opened by a tunnel 400 feet in length shows five feet of concentrating ore of which several thousand tons are on the dump. A concentrator will soon be erected to work the product. Mr. Hales is the chief owner.

### May Build a Smelter.

According to a report sent from Great Falls to Boston, Senator W. A. Clark and James J. Hill are seriously considering a proposition to build a smelter at Great Falls. The report adds that but few details remain to be determined before the matter will assume tangible shape.

### Another Excursion to Missoula Sunday, July 28.

To accommodate the large number of people who were unable to go to Missoula the 21st, the Modern Woodmen of America have arranged with the Northern Pacific to run another excursion Sunday, July 28. Fare for the round trip \$2.00. Tickets not good on the "North Coast Limited." Trains leave Butte at 7 and 7:30 a. m.; returning leave Missoula at 7:15 and 7:45 p. m. The second train in each direction will stop at Bonita and Bonner so fishermen who wish to avail themselves of the superior fishing in that vicinity can enjoy a good day's sport. Purchase your ticket Saturday at the N. P. city office so as to be sure and get a seat.

### SUMMER EXCURSIONS VIA GREAT NORTHERN RAILWAY CO.

Basin and return (good every Sunday) .....\$1.00  
Rouder and return (good every Sunday) .....\$1.00  
Basin and return (good Saturday until Monday) .....\$1.50  
Boulder and return (good Saturday until Monday) .....\$1.50  
J. E. DAWSON,  
G. A., 41 N. Main street.

### TO BUFFALO EXPOSITION.

The most popular railway from the northwest to the great wat Buffalo will be the Chicago, Milwaukee & St. Paul. It runs, every day, five beautiful trains from St. Paul and Minneapolis to Chicago, connecting directly with all eastern lines. Its celebrated Pioneer Limited (the famous train of the world) leaves Minneapolis 7:30 p. m. and St. Paul 8:10 p. m. daily, arriving Chicago 9:30 next morning. Special features of the "Milwaukee's" service are the observation, buffet parlor cars on day trains, private compartment and standard sleepers on night trains, as well as buffet smoking cars and the best dining service in the world. Tickets at cheap rates will be on sale every day at all points on the Chicago, Milwaukee & St. Paul railway to Buffalo and return, and the maximum comfort can be obtained by using this line. Write to J. T. Conley, assistant general passenger agent, St. Paul, for the "Milwaukee's" Pan American folder (one of the completest and most comprehensive guides yet published of the exposition) and all information concerning rates, etc.

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## Certain Lace Curtains

That have all the good qualities, all the beauty of pattern, all the newness of design, and a wealth of figures on a ground of serviceable netting, are included in our annual summer clearance sale at from two-thirds to one-half former prices. We have space here to mention but a few of them, and can say only a few words about those we mention. One thing certain about these curtains is this, they will not be here long at these prices, and it will be a long time before you will see any more as good ones for such prices.

Nottingham Lace Curtains	Irish Point Lace Curtains
Those that were \$5c. and good value at that, for.....	A few pairs only of each kind, marked specially low to make a clean sweep of the entire lot. The reductions are in every case made from former prices that had no rivals in Butte for like qualities.
60c	The choice of all that were marked \$6.00 for.....
Those that were \$1.00 and good value at that, for.....	\$3.50
75c	The choice of all that were marked \$8.00 for.....
Those that were \$1.50 and good value at that, for.....	\$5.50
\$1.00	The choice of all that were marked \$10.00 for.....
Those that were \$2.00 and good value at that, for.....	\$7.50
\$1.25	The choice of all that were marked \$12.50 for.....
Those that were \$2.50 and good value at that, for.....	\$9.00
\$1.75	The choice of all that were marked \$15.00 for.....
Those that were \$3.50 and good value at that, for.....	\$11.00
\$2.65	

## Brownfield-Canty Carpet Co

48 to 54 West Park Street, Butte  
Goods Sold on Installments Freight Paid on Mail Orders

## Visitors to the Fair

Should avail themselves of my Reduced Rates in Summer Ask anybody in Butte as to my standing for character and High-Class Dental Work Bridge work; Plate work; Pivot work; Porcelain teeth and plate.  
**Dr. E. E. German**  
114 1/2 North Main Street

## The Connell Store

The "Foible" A Man's Fad  
WE HAVE just received the latest novelty in Men's Summer Neckwear---a four-inch hand in 400 different styles and colorings---made with gathered puff. Entirely New.  
**M. J. Connell Company**

**100 Lots Sold in June!**  
**McQUEEN ADDITION**  
FIVE feet of Copper Glance Ore Struck in Sinbad adjoining this addition. Lots selling very rapidly this month. Lots \$150.00. \$30.00 cash, balance \$10.00 per month.  
**THE THOMPSON CO. Fire Insurance, Loans**  
15 West Broadway.

**BRUSHES \$1.00, 75c and 25c values**  
Hair, Cloth and Bonnet---Choice 15c  
**Albums \$5., \$4 and \$2.50 Values Albums \$1.00**  
**Eagle Pharmacy** 14th Street, One Door South of Park St., Butte

**10c Bargains at The Fair, 111 Hamilton Street**  
Scrub brush.....10c Spring Lock and 2 Keys.....10c  
Holling Pin.....10c Wire Plate Holder.....10c  
Granite Cooking Spoon.....10c Nickel Plate Match Safe.....10c  
Dover Egg Beaters.....10c Drawer Pulls.....10c  
Toaster, large wire.....10c 6-in. Barrel Bolts.....10c

**Tightness Across the Chest**  
Soreness from Colds Yields Readily to  
**Golden C Cure**  
Fosselman Drug Store, 43 E. Park

**DR. METTERNICH'S "CRANIOL"**  
The new scalp and hair specific from the Vienna clinics, not a remedy by a bald-headed barber, cures dandruff in three to five days, stops the hair falling in a short time, invigorating scalp and hair glands. \$1.00 bottle.