

MINING JOURNAL TELLS OF JUNEAU GOLD BELT

The position of honor in each of the June and July numbers of the Alaska and Northwest Mining Journal, published at Seattle, are devoted to the "Juneau Gold Belt." The articles are from the pen of O. E. Bennett, of this city, special correspondent of the magazine, and they occupy the first half dozen pages in each of the last two numbers.

Mr. Bennett calls to mind a fact that Juneauites often lose sight of—a fact which many of the citizens of Juneau have never known to be the truth. He says "Gold in the form of placer was first discovered in what is now known as the Juneau mining district, at Sumdum and Windham Bay, in the year 1870."

Continuing, Mr. Bennett relates now ten years later, two prospectors, Joe Juneau and Richard Harris, landed at the mouth of Gold Creek which empties into Gastineau Channel now only a few yards from a number of

the principal business houses of the City of Juneau. "The prospectors discovered float ore at the mouth of this stream" the article goes on to say, "and they followed it up to Silver Bow Basin where they discovered good placer prospects. The following year there was what would be considered a small stampede to this district, and the year 1881 found approximately 100 people in the camp then known as Harrisburg. From that time up to the present, a period of over thirty-two years, the Juneau mining district has witnessed a gradual and continuous development."

"There are special features characteristic of the Juneau Gold Belt which deserve special mention and which, at the same time have a definite bearing on its future" says Mr. Bennett, and further states that "the most important of these is that throughout the whole Pacific Coast this is one of the few places where

the mineral zone lies directly and adjacent to the natural channels of water transportation. The second important point is, that the high mountains forming the hanging way of the lode system act as a bulwark to the moisture of the ocean and creates conditions allowing a heavy precipitation which, in turn becomes available as cheap and abundant power. The third characteristic is, that the lode systems so far determined have such metallurgical characteristics as to permit of simple and easy extraction.

"These three factors are necessary to and actually make possible the cheapest known working costs for gold mines in the world. By way of comparison, there are lode systems as large as those in this belt and having the same values found in many mining districts, but as a rule, these three elements necessary to cheap working costs permit of working ore, under the right conditions, that will show an extraction of not over \$2 a ton, inasmuch as the conditions which create high grade values are unusual high grade deposits of any size, as a rule, of rare occurrence, and the mining of such deposits is invariably coincident with a short life. On the other hand, small stringers and veinlets of high grade ore, which cannot be worked themselves, scattered over a large area, is a condition which exists in this district, and which makes up the large deposits now being worked and developed.

"All of these special features just mentioned have a strong bearing on not alone the present history of this belt, but the life of the deposits, on account of their size, will be great. It is confidently expected that some of the deposits already developed will be working for upwards of a hundred years from what is at present known of them. The normal working constant, both as to output and condition of this type of deposit is conformed.

"From the standpoint of the merchant mines of this character, as against high grade deposits, allow him to build and develop along natural and substantial lines without fear that the bottom may drop out from the working out of high grade body of ore." From the standpoint of the miner and the working man, as against the quick and easy returns in a high grade camp, followed by a shifting of his position and occupation, he can, if he will, determine to definitely settle in this given area, build his home and bring up his family, feeling that his work and his future rests on a substantial foundation.

"It is an interesting thing to note that better than fifty to seventy-five per cent. of the gross yield from the deposits is paid direct to labor and supplies. The present gold output for the entire district for the year 1914, or up to the present time, is approximately five million dollars, so that over two million dollars has been paid direct to labor, and this does not consider the new money which is going into equipment and development work, but refer only to present output.

"As an example of what large, low grade mines mean to the laboring man and merchant, take for example the Treadwell group of mines. This group to date has milled some 45,000,000 tons of ore and produced in the neighborhood of \$50,000,000 in gold and silver. Out of this, approximately \$30,000,000 has been paid out in the form of salaries direct to labor, has been paid out in equipment, machinery and supplies. The yearly output of this group averages about \$4,000,000 a year, and is increasing. The average number of men employed is 1,500, with a payroll of approximately \$165,000 a month. All this is taken direct from the ground and in added wealth, not alone to the community itself, but to the world at large.

Up to the present time some \$5,000,000 has been expended on development work on the low grade properties in this district, and there is an

assurance of several millions more being spent on the development of other properties within the next two or three years. These expenditures are being made direct in the Silver Basin as well as on Douglas Island, and will increase the present large milling capacity by several thousand tons.

In connection with the immediate vicinity of Juneau the writer says more particularly:

"The magnitude of mining in South-eastern Alaska, and more particularly on what is known as the Juneau gold belt, where the mining and milling of low grade ore is now being carried up in operations of such proportions as to center the eyes of the mining and business world upon this section, have, to a certain extent, led the interested public to believe that the Juneau gold belt is one of the low grade ore bodies exclusively, and contains little, if any, rich veins of high grade ore in small bodies, such as is characteristic of many other camps. This is not the case, by any means. Most of the ore bodies now being developed along this belt are found to lie in what is commonly termed the Juneau slate, and are comparatively close to the water. However, there is abundance of evidence all along this belt for a distance of more than two hundred miles, that the diorite and its allied rocks which are found to make the east side contact of the slates, contain many smaller leads of rich, or very high grade ore.

"At numerous intervals along this belt, immense glaciers cut the formations almost at right angles, and stretch from many miles into the interior down almost to the sea. The glacial moraine and debris which lie at the foot and along the sides of these immense rivers of ice, contain the undisputable evidence of the richness of the veins disrupted by these glaciers while moving in their course to the sea. Much float quartz may be found around any of these glaciers in which free gold can readily be seen, some of it assaying very high in value.

"Many of these rich stringers of veins have been located at numerous localities throughout this belt and held for several years, sufficient assessment work being done each year to hold them and no further attempt being made toward development. These veins usually being found in small bodies, have been neglected for the reason that local capital has been absorbed almost entirely and to its utmost capacity in handling the larger proportions of low grade ores, and also that often these smaller leads are rather difficult of access, or at least considered so in a country where the mining developments have been heretofore carried on almost at sea level.

"However, it is apparent already, that this vast mineralized domain is soon to receive the attention of both prospectors and mining investors that its indications warrant. When it is taken into consideration that this immense and practically unexplored expanse of country, which lies back of the States and known to be heavily mineralized for more than one hundred miles back from the coast line of the main land of Alaska, the future possibilities of this mineral empire of latent wealth are beyond conception.

"Another heavily mineralized section, where the conditions are closely analogous to those of the Juneau mineral belt, lies on the west side of Lynn Canal, between the head of Excursion Inlet and Chilkat River. Here, as on the Juneau mineral belt, are found a long and unbroken chain of heavily mineralized slates, the same being intersected along its whole course by many dikes of intrusive rocks, and many of the streams which flow through this belt and empty into the west side of Lynn Canal, show an appreciable and constant working of gold, apparently eroding in large quantities yearly from these slates.

"A cursory and rather superficial examination made by prospectors and well known mining men during the summer of 1914, developed the fact that many large bodies of ore are to be found in this section which contain both gold and galena, and are almost identical in character with the ores in the Juneau belt. This mineralized section, as a rule, lies within five or six miles back from tide water, where numerous land-locked bays and indentations along the coast render the harbors for the largest seagoing vessels.

"Water power and timber suitable for mining purposes are to be found in abundance throughout these mineral belts, and when it is taken into consideration that this district is open the year around for transportation facilities and accessible for mining operations which are now and have been carried on at all seasons of the year, it is little wonder that large combinations of capital are spending millions of dollars here where an absolute guarantee of permanency is assured, and where a big share of the attention from the mining world is attracted and where many home-seekers and investors are now interested.

"The conditions of the mines in this mineral belt as they stand today, are pleasing to contemplate. The Treadwell group, Alaska-Gastineau, Alaska-Juneau and other properties on a large operative basis, are in better condition from a point of view in tonnage and development work as well as surface equipment, than ever in their history. The exploration work in all the mines in this district continues steadily and satisfactorily, and the ore bodies are retaining an equally satisfactory depth and value.

"Only a short way from this immediate section, active and consistent development work is being carried on in the Auk Bay country, in the Eagle River country and the Berner's Bay country, the results of

which are generally satisfactory and encouraging. There can be little doubt that with the improvement of modern metallurgy and the continuation of this development work now planned in these outside sections, the other mines comparable in size to this immediate vicinity, will be forthcoming."

The articles are profusely illustrated and Mr. Bennett has received congratulations from many mining men for the careful manner in which he has presented the facts concerning the Juneau Gold Belt.

Copies of both the June and July numbers of the Alaska and Northwest Mining Journal are on sale at Juneau news stands.

Rent	\$40
Librarian	75
Substitute	5
Janitor	12
Total	\$132

On August 1st the association had on hand in the banks a total of \$508.31. During the quarter the sum of \$720 was received from the following sources:

From Draper Club	\$204.24
Baseball game, gross receipts	233.20
Monthly subscriptions	131.30
Membership dues in use	8.00
Calling cards sold	1.45
Fines for overdue books	36.80
Electric light company, donation	15.00
Total	\$720.00

OCCIDENTAL HOTEL AND ANNEX

Rates—75c to \$2.50 Per Day

Weekly Rates on Request
Phone 11

McCloskeys

Watches, Diamonds
Jewelry, Silverware

L. J. Sharick
Jeweler and
Optician

ENAMELWARE

Special Prices! See Our Window Display!
Only a limited quantity at these prices

Our stock of Aluminum and Graniteware
is the most complete in the city. Also Chinaware
for the Home or Hotel

C. W. YOUNG COMPANY

THE FIRST NATIONAL BANK OF JUNEAU

United States Deposits\$100,000.00
Capital, Surplus and undivided Profits over 100,000.00

United States Depository
OPEN SATURDAY EVENINGS UNTIL EIGHT O'CLOCK

New Stock Hard Wheat Flour

SCANDINAVIAN GROCERY, General Merchandise
Phone 211, Opp. City Dock

Groceries and Men's Goods

Alaska-Gastineau Mining Co.
THANE, ALASKA

Let The "Empire" Do It!

An item of news which gives you pleasure in the telling, can be told more effectively, more accurately, and to a larger number of friends by the local newspaper—Let THE EMPIRE tell the story.

The business story, the story of bargains, of special offerings, and the reasons therefor, always bring a speedy response if based on facts, and the spirit of the story is adhered to conscientiously—Tell your story and tell it truthfully to the readers of THE EMPIRE, and you'll get results.

For stationery, booklets, circulars or just printing, our Job Department is equipped to give you just what you want at the time you want it.

THE EMPIRE is putting forth its efforts night and day, toward the upbuilding of the city of Juneau, and the developing of our natural resources.

Concerted effort will get results. Help promote prosperity.

Let The "Empire" Do It!

Take a
Recall Order
Tonight
It will act as a laxative in the morning

Wm. Britt, Juneau,
Elmer E. Smith, Douglas.

ENAMELWARE

Special Prices! See Our Window Display!
Only a limited quantity at these prices

Our stock of Aluminum and Graniteware
is the most complete in the city. Also Chinaware
for the Home or Hotel

C. W. YOUNG COMPANY

THE FIRST NATIONAL BANK OF JUNEAU

United States Deposits\$100,000.00
Capital, Surplus and undivided Profits over 100,000.00

United States Depository
OPEN SATURDAY EVENINGS UNTIL EIGHT O'CLOCK

New Stock Hard Wheat Flour

SCANDINAVIAN GROCERY, General Merchandise
Phone 211, Opp. City Dock

Groceries and Men's Goods

Alaska-Gastineau Mining Co.
THANE, ALASKA

Let The "Empire" Do It!

An item of news which gives you pleasure in the telling, can be told more effectively, more accurately, and to a larger number of friends by the local newspaper—Let THE EMPIRE tell the story.

The business story, the story of bargains, of special offerings, and the reasons therefor, always bring a speedy response if based on facts, and the spirit of the story is adhered to conscientiously—Tell your story and tell it truthfully to the readers of THE EMPIRE, and you'll get results.

For stationery, booklets, circulars or just printing, our Job Department is equipped to give you just what you want at the time you want it.

THE EMPIRE is putting forth its efforts night and day, toward the upbuilding of the city of Juneau, and the developing of our natural resources.

Concerted effort will get results. Help promote prosperity.

Let The "Empire" Do It!

Take a
Recall Order
Tonight
It will act as a laxative in the morning

Wm. Britt, Juneau,
Elmer E. Smith, Douglas.

ENAMELWARE

Special Prices! See Our Window Display!
Only a limited quantity at these prices

Our stock of Aluminum and Graniteware
is the most complete in the city. Also Chinaware
for the Home or Hotel

C. W. YOUNG COMPANY

THE FIRST NATIONAL BANK OF JUNEAU

United States Deposits\$100,000.00
Capital, Surplus and undivided Profits over 100,000.00

United States Depository
OPEN SATURDAY EVENINGS UNTIL EIGHT O'CLOCK

New Stock Hard Wheat Flour

SCANDINAVIAN GROCERY, General Merchandise
Phone 211, Opp. City Dock

Groceries and Men's Goods

Alaska-Gastineau Mining Co.
THANE, ALASKA

Let The "Empire" Do It!

An item of news which gives you pleasure in the telling, can be told more effectively, more accurately, and to a larger number of friends by the local newspaper—Let THE EMPIRE tell the story.

The business story, the story of bargains, of special offerings, and the reasons therefor, always bring a speedy response if based on facts, and the spirit of the story is adhered to conscientiously—Tell your story and tell it truthfully to the readers of THE EMPIRE, and you'll get results.

For stationery, booklets, circulars or just printing, our Job Department is equipped to give you just what you want at the time you want it.

THE EMPIRE is putting forth its efforts night and day, toward the upbuilding of the city of Juneau, and the developing of our natural resources.

Concerted effort will get results. Help promote prosperity.

Let The "Empire" Do It!

Take a
Recall Order
Tonight
It will act as a laxative in the morning

Wm. Britt, Juneau,
Elmer E. Smith, Douglas.

WAR SIDELIGHTS

Statisticians in Hamburg, Germany have compiled figures showing that German is rapidly becoming the language of the world. In 1800 there were 30,320,000 speaking German, 31,450,000 French and 20,520,000 English in 1899 75,200,000 51,200,000 and 111,100,000, respectively. In 1914, 105,400,000, 52,000,000 and 152,000,000 respectively. In 1900 there were 250,000 speaking German in the United States. In 1890, 7,100,000 and in 1914, 33,000,000. In 1914 there were 90,500,000 speaking German in Europe, compared with 46,000,000 each of the French and English languages.

A Zurich dispatch says that at the beginning of the war the Kaiser's special train was painted whitish-blue so that troops and civilians could all recognize and cheer the emperor as he passed. To prevent hostile aviators from seeing the train easily it has been periodically repainted in different colors. The telephone system is so perfect that the Kaiser when in the field can get into immediate connection with his army chiefs in the west and east fronts, the government representatives at Berlin and with ambassadors in neutral European countries.

Bread just before the fall of Warsaw was double and triple its usual price. Eggs, which sold for two cents, are now six cents each. At Easter each Russian soldier received four eggs—1,000,000 soldiers around Warsaw meant 4,000,000 eggs—and the country was stripped of this product. There is no beef, and a pound of poor meat now costs 60 kopecks, against the usual price of 24 kopecks—the poorest quality of steinpieg oxen.

In the Boston Globe, correspondent J. O. D. Bennett writes from Christiania that men of affairs there feel that Norway will be drawn into the war as an ally of England. Explorers Amundsen and Nansen have voluntarily returned to the Norwegian government subsidies which they had been granted for further polar researches, and have abandoned the latter until after the close of the war.

Germany has a new aeroplane, that is practically invisible at 3,000 feet, at a height of 6,000 feet to the naked eye. The invisibility is obtained by covering the planes with "cellon," a combination chemical mixture of cellulose and acetic acid, which make them exceedingly tough, transparent, and pliable and is also non-inflammable.

A London special asserts that observations indicate that whether ship is torpedoed with or without warning depends upon the individual German submarine commander and that there is no record of the Admiralty ever having issued instructions on this point.

German submarines sunk ten British trawlers and three neutral vessels on Tuesday. French submarine Marlotte was destroyed by the German submarine on July 26 in the Dardanelles, according to a Constantinople dispatch.

Arrivals and departures of British merchant ships from British port since the inauguration of the German submarine war have been 31,356: 93 ships having been sunk, of 31 per cent. The officers and men who have been killed were 505; and neutral vessels sent to the bottom, 95.

A Cincinnati manufacturer, L. L. Wolf, has discovered a fireproofing liquid designed to offset the effects of shells which on explosion distribute burning liquid. The British government upon experiment, has ordered 600 gallons.

A representative of the French government is in Pittsburgh seeking to place an order for sufficient mica to make 4,000,000 lenses for glasses for glasses to be worn by the soldiers as a protection against gas and acid bombs.

German Under-Secretary For Foreign Affairs Zimmermann says: "We can never give up our submarine warfare. The people would never sanction that."

In an article headed "Unfounded Anxieties," Count Reventlow admits the German public is a good deal annoyed by their unsatisfying progress of the submarine war.

A German colonel claims the Kaiser told the grand general staff that he has decided to end the war January 1, and sign a peace treaty on January 27th, his birthday.

The French forces have captured the important position of Lomle, on the German colony of Kamerun, Africa, and have advanced as far as Potouritza.

Abe Martin Says
It's for easier 't talk back than it is 't come back. Mrs. Tipton Bud's nephew has lost the penal farm as he was not satisfied.

DON'T forget the Names—
OLTS GILPATRICK,
Contractors
Concrete or frame construction.
(5-17-15)

CHOICE FRESH GROceries

FOR FAMILY TRADE

PHONE 385 J. M. GIOVANETTI Prompt Service

Let Me Run Your Sewing Machine

FOR 1/4 OF A CENT PER HOUR

Apply to G. E. MOTOR, Care of
Alaska Electric Light and Power Co.
THIRD AND FRANKLIN STREETS

FINE POULTRY

FRESH SAUSAGE EVERY DAY

Full line fresh and cured meats—Government Inspected. Try our Wild Rose Lard

Frye-Bruhn Market
Arthur Ficken, Manager
Seward Street

We've Got It

Everything in the line of Wines, Liquors, Cigars

JUNEAU LIQUOR CO., Inc.

"The Family Liquor Store"—Phone 94—Free Delivery

THE GROTTO

C. R. BROPHY

Distributors of High Class, Double
Stamp Whiskey, Wines and Cordials

Olympia and Rainier Beer

95 FRONT STREET TELEPHONE NO. 210

Heidelberg Liquor Co.

Largest Stock Best Brands of Imported and Domestic Liquors and Wines for Family Use.

Free Concert Every Evening 7 Till 12

Free Delivery. Mail Orders a Specialty. Telephone 386

Peerless Concert Hall

Wines, Liquors
and Cigars

Chas. Craig Proprietor

HILL DRUG CO.

Just received another large shipment of the famous Augustine & Kyer candies, bearing the factory date of July 30th. The public can always feel confident of obtaining a fresh box of the celebrated Augustine & Kyer candy at the

HILL DRUG CO., Phone 32
(5-5-15)

Empire want ads. work all the time.

Louvre Bar

THE HOUSE OF GOOD LIQUORS

The Famous Waterfill and Frazier Whiskies

MOVING PICTURES EVERY EVE. 8 TO 12 O'CLOCK

E. S. HOLDEN, MANAGER

WAR SIDELIGHTS

Statisticians in Hamburg, Germany have compiled figures showing that German is rapidly becoming the language of the world. In 1800 there were 30,320,000 speaking German, 31,450,000 French and 20,520,000 English in 1899 75,200,000 51,200,000 and 111,100,000, respectively. In 1914, 105,400,000, 52,000,000 and 152,000,000 respectively. In 1900 there were 250,000 speaking German in the United States. In 1890, 7,100,000 and in 1914, 33,000,000. In 1914 there were 90,500,000 speaking German in Europe, compared with 46,000,000 each of the French and English languages.

A Zurich dispatch says that at the beginning of the war the Kaiser's special train was painted whitish-blue so that troops and civilians could all recognize and cheer the emperor as he passed. To prevent hostile aviators from seeing the train easily it has been periodically repainted in different colors. The telephone system is so perfect that the Kaiser when in the field can get into immediate connection with his army chiefs in the west and east fronts, the government representatives at Berlin and with ambassadors in neutral European countries.

Bread just before the fall of Warsaw was double and triple its usual price. Eggs, which sold for two cents, are now six cents each. At Easter each Russian soldier received four eggs—1,000,000 soldiers around Warsaw meant 4,000,000 eggs—and the country was stripped of this product. There is no beef, and a pound of poor meat now costs 60 kopecks, against the usual price of 24 kopecks—the poorest quality of steinpieg oxen.

In the Boston Globe, correspondent J. O. D. Bennett writes from Christiania that men of affairs there feel that Norway will be drawn into the war as an ally of England. Explorers Amundsen and Nansen have voluntarily returned to the Norwegian government subsidies which they had been granted for further polar researches, and have abandoned the latter until after the close of the war.

Germany has a new aeroplane, that is practically invisible at 3,000 feet, at a height of 6,000 feet to the naked eye. The invisibility is obtained by covering the planes with "cellon," a combination chemical mixture of cellulose and acetic acid, which make them exceedingly tough, transparent, and pliable and is also non-inflammable.

A London special asserts that observations indicate that whether ship is torpedoed with or without warning depends upon the individual German submarine commander and that there is no record of the Admiralty ever having issued instructions on this point.

German submarines sunk ten British trawlers and three neutral vessels on Tuesday. French submarine Marlotte was destroyed by the German submarine on July 26 in the Dardanelles, according to a Constantinople dispatch.

Arrivals and departures of British merchant ships from British port since the inauguration of the German submarine war have been 31,356: 93 ships having been sunk, of 31 per cent. The officers and men who have been killed were 505; and neutral vessels sent to the bottom, 95.

A Cincinnati manufacturer, L. L. Wolf, has discovered a fireproofing liquid designed to offset the effects of shells which on explosion distribute burning liquid. The British government upon experiment, has ordered 600 gallons.

A representative of the French government is in Pittsburgh seeking to place an order for sufficient mica to make 4,000,000 lenses for glasses for glasses to be worn by the soldiers as a protection against gas and acid bombs.

German Under-Secretary For Foreign Affairs Zimmermann says: "We can never give up our submarine warfare. The people would never sanction that."

In an article headed "Unfounded Anxieties," Count Reventlow admits the German public is a good deal annoyed by their unsatisfying progress of the submarine war.

A German colonel claims the Kaiser told the grand general staff that he has decided to end the war January 1, and sign a peace treaty on January 27th, his birthday.

The French forces have captured the important position of Lomle, on the German colony of Kamerun, Africa, and have advanced as far as Potouritza.

Abe Martin Says
It's for easier 't talk back than it is 't come back. Mrs. Tipton Bud's nephew has lost the penal farm as he was not satisfied.

DON'T forget the Names—
OLTS GILPATRICK,
Contractors
Concrete or frame construction.
(5-17-15)

HILL DRUG CO.

Just received another large shipment of the famous Augustine & Kyer candies, bearing the factory date of July 30th. The public can always feel confident of obtaining a fresh box of the celebrated Augustine & Kyer candy at the

HILL DRUG CO., Phone 32
(5-5-15)

Empire want ads. work all the time.

Louvre Bar

THE HOUSE OF GOOD LIQUORS

The Famous Waterfill and Frazier Whiskies

MOVING PICTURES EVERY EVE. 8 TO 12 O'CLOCK

E. S. HOLDEN, MANAGER

HEIDELBERG LIQUOR CO.

Largest Stock Best Brands of Imported and Domestic Liquors and Wines for Family Use.

Free Concert Every Evening 7 Till 12

Free Delivery. Mail Orders a Specialty. Telephone 386