## LARGEST MINE IN THE WORLD

Famed Group of Properties at Treadwell, Alaska, Employing 1400 Men. Social and Educational Life of the Great Camp

I first impression as I steamed into the Douglas port on a bright June evening last Summer was the midnight sun, as the sky was bright and clear, and the horizon still glistening with the rosy reflection of departing day. It was nearing the mid-night hour, yet the wharf was crowded with people to greet those who arrived on the beautiful steamer Jefferson, and others anxious to see tourists, who were visiting Alaska to view the scenie wonthis grand country.

The following day a visit was made to the famous Treadwell gold mines and mills, which was a trip long to be re-membered. These mines—the most exensive in the world are nestled at the foot of a range of mountains, which rise to a height of 2000 feet, with evergreens lowering high toward their craggy summit, and within a stone's throw of the water of Gastineau Channel, giving it the most delightful view and pleturesque location for one of the richest properties on the globe-the Treadwell group, composed of four distinct mines, owned by different companies, but un der the same supervision, are known for immense bodies of low-grade ore which are mined and milled by scientific methods, to a splendid profit.

First, visiting the Glory Hole, the watchword for all fourists coming to Southeastern Alaska, we found a large 800 feet wide and 1400 feet long. Many people think this is the mine proper, but it was devoid of any signs of activity. We were informed, however, that in the future a large force of men will be engaged to remove the blocks of

A hurried trip was taken underground, which gave me a vague idea of what a mine was like. We boarded a cage and with a signal from the foreman, found surselves dropping, as it were, through a Now and then we flitted hurriedly through lighted passageways. Finally the 1050-foot level was walking through brilliantly lighted archcleam on the quartz ceilings and sidesparkling and glittering, as we walked hurriedly unward, through still brunder passageway and arches, climbing ladders and visiting the different lev els, now into large hallways or drifts, then out again into huge stopes, at times ong enough to put the gentle horse which was drawing ore trains from the chutes to the ore bins.

After three hours of travel in this underground world, we again boarded the enge and were once more above the surface, all declaring it was the most ining after visiting the Glory Hole, underground mine and outside workings, we raught a glimpse in the distance of many beautiful red-painted cottages, which were situated above the level of the town, commanding a magnificent view of Gastineau Channel, and in constant sight boats plying back and forth. The homes are steam-heated, electric-lighted, and the occupants enjoying the comforts of life. A number of the Treadwell employes live at Douglar, which is one-half mile distant from Treadwell.

The open pit, or glory hole, was the first workings of the Treadwell mine, The ore was broken by machine drills operated by compressed aid, loaded into the cars and taken to the stamp mill.

The pits grew deeper and deeper on account of the extraction of large ore badies, and in order to extend further develsunk on the property which resulted a depth of 100 feet.

sunk on the property which reached a depth of 100 feet.

Later on, about 1888, another shaft was started, which at present has reached a depth of 1800 feet. Heavier hoisting machinery was installed, and a few years later the famous "500" Treadwell mill was constructed, which is the largest stamp mill in the world. Four minor mills assist in this great ore-crushing process, with a combined capacity of 840 stamps, crushing 5000 tons of ore daily. The greeting we received on entering the 300 mill was a deafening roar from the 200 stamps, and as each stamp weighs 100 pounds, this reverberating sound is carried a long distance. It was an interesting sight to see the heavy-weighted stamps pounding the ore to a pulp, then carried by water over the inclined copper-plated table charged with quicksilver, where the free gold is caught, the refractory gold passing on through per-plated table charged is caught, the ver, where the free gold is caught, the refractory gold passing on through launders to the vanners, or concentrators, the heavy material or concentrates with the concentrates of the vanners, the waste material, which carries practically no value, passing in the tail race and into Gastineau channel.

The quicksliver and gold, which is unshered into a large room furnished with eight billiard tables and four pool tables. Adjoining this room is the readless and writing race and writing desks, all before an expectation of the contraction of t





GENERAL VIEW OF DOUGLAS, ALASKA

BASKET BALL TEAM,

er of men engaged in a very spirited game of checkers. In the south end of the building is a large hall, which will seat 600 people. Amateur per-formances are very often given by members of this club, and band concerts

members of this club, and band concerts
take place frequently.

Dancing parties occur every two
weeks at the club, and large crowds
assemble on those occasions to dance to
music furnished by the club orchestra.

A bowling alley adjoins the club,
where matched games are held frequentity. Even the ladies in this faraway mining camp have taken great
interest in this diversion, many of them
becoming superior players to a few club. becoming superior players to a few club members of the sterner sex. Friday of each week is jadies' day, and many ladies assemble to enjoy the pleasures the club affords. The bath-rooms, a

dark-room for finishing off kodak pic tures, an up-to-date barber shop, and a first-class library, make this one of the main attractions of the Treadwell mines, the pride of the whole com-munity.

Other attractions of this wonderful Other attractions of this wonderful gold camp, such as the Treadwell band, composed of 26 employes of the mines, the boarding houses, which attract the eye of every tourist with the cleanliness and splendid-looking tables, the houses for the miners consisting of neat rooms, electric lighted, furnished with hot and cold water, giving to the weary miner the modern comforts of life.

Intermingled with the busy life of the Freadwell employe is much pleasure and amusement. A tennis court is being erected at Treadwell, so those who enjoy the sport may play at their leis-ure. Baseball is another diversion, many hundred dollars being donated by

this attractive and quaint-looking town being built on an inclined plane plan, the last street commanding a view above the level of the entire city. In the distance looms up Douglas Island, with its beautiful background of evergreen trees towering stately and grand in the rear of the island, giving it a delightful aspect from the opposite

It was after a slight shower and a

ides of this pompous mountain. Shady Bend, the coolest spot on the road, with its dense shade trees of pine and spruce and the luxuriant growth of aider and Treadwell mills and the wreaths of smoke issuing from the different works busiest town in Alneka.

The reverberating sound of the erry bushes, was next reached. Scarcely had we passed Shady Bend until we found ourselves winding around the solitary Cape Horn, the most precipitious part of the road, this turn of the road being been out of solid rock, commanding a view of Gold Creek, rearing swiftly by, at a distance 200 feet below us. In the distance we could see the road winding around the mounfains, each curve taking us higher and higher. Soon we were beyond the Ender mine, and in our tiroless ascent we finally reached the Red Mill. Here a narrow pebbly trail took us one mile a narrow pebbly trail took us one mile distant to the Basin Mine, situated 1800 feet above sea level. Although it was July 6, snow-capped mountains stood about us, and 200 feet below we caught a glimpse of the Perseverance Mine and mill. The sound from that 100-stamp mill could be distinctly heard as we stood enjoying the cool breeze wafted from the mountains surrounding us on all sides.

all sides.

We were here given an opportunity of We were here given an opportunity of seeing the basin miners in actual work, this mine being worked from an open cut. At the hottom of the cut large blocks of snow are visible which were as solid as in the coldest day in January. Many miners prefer the open cut mines, so they may enjoy working in the fresh air.

After an inspection of the mines and its working.

its workings we started our gradual descent. As we neared the base of the mountain, the sun was high over the topmost peaks, flooding the narrow winding road with a dazzling glow, spreading warmth and brilliancy which was enjoyed by the merry pleasure seekers. by the merry pleasure seekers,

An air of peace and contentment is evidenced among the people here and to the casual observer this is difficult to understand, but after Hwing in this country a short time one finds the climatic con ditions are such that in many cases im-prove the weskest constitution. One noticable fact here are the numbers

of people who have lived here year after year and seem to be perfectly satisfied. Many informed me they left several times to remain away, but always returned, a reason for which they could not give, but invariably added: "If you live in Alaska one year, you will want to remain

many hundred dollars being donated by the people to defray the expenses of a first-class baseball team, a Fourth of July celebration, and the Flag Day exercises of June 14 gives one the impression that in far-away Alaska every effort is made by the people to furnish pleasure hand in hand with the dreary hours of toll pleasure hand in hand with the dreary hours of toil.

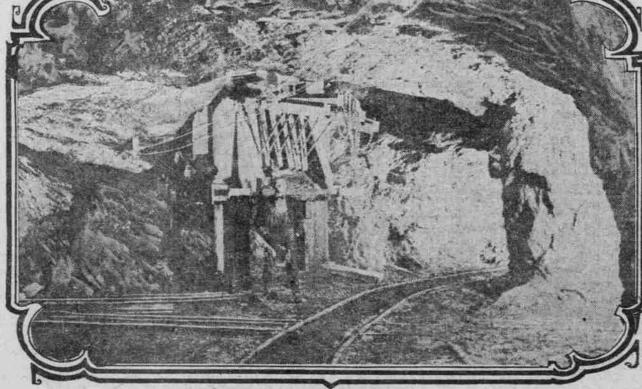
Other pleasures are interesting trips to surrounding mines and glaciers. A trip all newcomers are advised to take is a visit to the Basia mine, four miles north of Juneau. The ferry, which makes regular trips to Juneau, is boarded at Douglas, and a ten-minute ride at Douglas, and a ten-minute ride is taken over the calm waters of Gastineau channel. When the Juneau wharf is reached we at once start our climb as we ascend the streets of Juneau, this attractive and quaint-looking them to higher institutions of learning, giving them the fundamental training to battle with the mora difficult tasks in life. Many of the young men who entered school last Fall have returned and are already actively engaged in some practical work around the mines which will give them a keener insight into the studies they will pursue the ensuing years. Owing to this education spirit there are bought of the property of the students of the property of and the rapid advancement of this Alas-kan school is due to the effort of a Medford, Or., woman, Miss Adele Pickle, who used every available means to raise the school to a level with any first-class school in the Northwest.

To the women of Alaska is due much credit for assisting to establish comfort-able homes and educational facilities and to the ploneer women does Alaska owe a debt of gratitude, especially to those who

It was after a slight shower and a clear white mist hovered above Douglas Island, through which a faint shadow of the gun was peneirating. Farther out circled a clearer and more beautifully tinted downy mist, which floated serenely above the pale green water of the channel.

After ascending a flight of 50 steps at the rear of Juneau, we reach the road proper, which takes us to the Basin Mine, four miles over a winding and precipitious highway, but surrounded by most beautiful mountains and picturesque creeks and cascades in this country. As we traveled on and on we had a magnificent view of Mount Juneau, thickly timbered with evergreens and numberless silvery colored streams, which fall musically down the braved the hardshipe and privations of the early days.

In Southeastern Alaska is a class of men and women who are willing to forge on ahead, energetic and ambitious in all they undertake This spirit prevails gen-



AT THE 1050 FOOT LEVEL

## River Tunnel Project Most Desirable, Says T. T. Geer

Would Give Ample Means of Passing From One Side of the Harbor to the Other Without Hindering Navigation.

ing the building of more bridges across the Willamette lliver cannot be unraveled by the construction of a tunnel under its channel, then it is to be rewretted that such is the case. The rea-

ORTLAND, Dec. 25.—(To the Edi- in the future depend upon its harbor fator.)-If the present tangle concern- cilities for not only its growth but its very existence as a city of any preten-In other words, if there were no river here at all Portland would probably be no larger than Hillsborelikely smaller. The question of the greatest importance, therefore, to Port-

WOTEKINGMANS HOME,

scraped off the copper plates when the mill is cleaned, is called amalgam.

The amalgam undergoes another process, by which the gold is separated from the quicksliver. The retorted gold is then melted, all foreign matter removed, and the molten mass is poured into a mold the size of a brick.

When cooled and its value determined by assaying, the solid golds bricks are shipped to the home office of the company, which is in San Francisco.

Under the present free-milling process in Treadwell it is impossible to treat the concentrates, so about 25,000 tons are shipped to the Tacoma smelters annually, which is estimated to produce \$1.250,000 in gold. The Treadwell group employs 1400 men.

A large machine shop where mining re-

In gold. The Treadwell group employs 1400 men.

A large machine shop where mining repairs are being done and new machinery constructed is in continuous operation. A foundry for making castings required for mining and milling purposes has been in operation for many years. A new foundry is just completed which is the best equipped and most orderly foundry of any Western mining camp.

A feature which makes the life of the Treadwell miner more attractive is a club, which five years ago was organ-

a club, which five years ago was organ-lized for the benefit of the working men and their families. As we entered the main entrance we were immediately ushered into a large room furnished with eight billiard tables and four pool tables. Adjoining this room is the read-ing and writing-room, containing the leading periodicals and newspapers. There are several writing desks, all be-the convoled with the containing the

which confronts every modern city—the shortsightedness of those who originally located it and had charge of the first few

the construction of the Madison and Broadway bridges would go far toward providing a tunnel under the river which would easily accommodate twice the would easily accommodate twice the traffic which can be possibly taken eare of by the bridges and the river freed of a large per cent of its bandicap in the same the expense of guidin underties and the river of easily with the Sound ports.

To be sure, the expense of such underties the future with the expense of such underties that an inventory of Portland's future necessities be carefully taken we are necessities be carefully taken we are proceeding as if we would go far toward providing a tunnel under the river which will cost less to construct a sub-toward and action.

Not many years ago Hamburg, which calls vigorously for recognition and action.

Not many years ago Hamburg, which claims to be the largest shipping port claims to be the largest shipping olined to build for the day only—as we are so inclined now with a larger light pointing the way with unerring directness and infallible prophecy. Our principal streets are far too narrow for the transaction of the cly's daily business, even now. When the skyscraper on the corner of Washington and Third streets is completed and a similar one follows. single of the such is the case. The reasons are plentiful and obvious.

It is of the utmost importance, therefore, to Portand the river should be provided and secured there will not be many sepile here which side of the river they are on. Beyond all bither considerations Portland depends.

The sums of money to be expended in the sum of money to be expended in the portland depends.

The sums of money to be expended in the position are plantiful and obvious.

Ilicity smaller. The question of the clay's daily business, and the creation of the clay's daily business. The rains of the portland when Mr. Corbett, Mr. Ladd.

Mother says the same is horrid. Says I'm never to population of half or three-quarters of a million.

The sums of size development. It may be additional the creation of the clay's daily business.

The rains down is the improvement of its million of the clay's daily business.

All desire again to suggest that Golid's corner to population of half or three-quarters of the day is the improvement of the clay's daily business.

The rains down is the creation of the clay's daily business.

The rains down is the corporation of the clay's daily business.

The rains of the utmost importance importance, therefore, to Portland day is the improvement of its million of the clay's daily business.

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The rains of the utmost importance in the clay limits, presented that when Mr. Levis came here to corner of Washington and Third streets are far too narrow the claim of the rainsaction of the daily streets are far too narrow the claim of the provided and similar on the clay's daily business.

The rains of the turn of that when Mr. Levis came here to corner of Washington and Third streets are

should at this stage in its development by taking substantial cognizance of its actual requirements when it reaches a population of half or three-quarters of a million.

One eye was terribly black it is a big problem and it is likely we get the first propositions to be abandoned, but all of Portland's future greatness and growth must rest first upon its harbor.

One eye was terribly black if the must have had a sor with I'd seen it, deed I do. Mother says the game is hot but all of Portland's future greatness and growth must rest first upon its harbor.

His face was all cut up on one side, One eye was terribly black and blue; Geet he must have had a scrimmage, Wish I'd seen it, deed I do.