Great Homestake Mine Into Which Rivers Are Turned to Quench Fire

March 24 last, fire was discovered on the Eco-foot level of the Homestake mine, in stope No. 4 north, When the fire was discovered among the timbers it had gained such headway that it was deemed advisable to hoist the men from the lower workings to the surface, and this was done, Arrangements were made to fight the flames, but, despite all that could be done, there appeared to be no hidway made against them. On the third day a heavy gas was generated, deadly in its effects upon those coming in contact with it. Many of the men were overcome and it was then seen that the ordinary ? frods would not feam was turned prevail or be effective. into the burning stope, make conditions ever orse than before and did not do any Ag toward putting out the fire. All the science could devise and practical mining en nuggest was tried, but the fire burned h. After a while the gas became less t ablesome and the fire was attacked wit. bnewed energy. Several to have been extimes it was be renewed violence the gas and smoke again accumulated, dr Ing the fighters away from the fire and to places of safety. On Monday last Superintendent Grier gave up all hope of putting out the fire by the usual method and decided to flood the workings as a last resort, and operations were begun looking to turning the full volume of water r., ning in Whitewood and Deadwood creeks into the mine. This work has been completed and the full flow of both streams, together with over 1,000,000 gallons a day from Spearfish creek, are being emptied into the workings of the property.

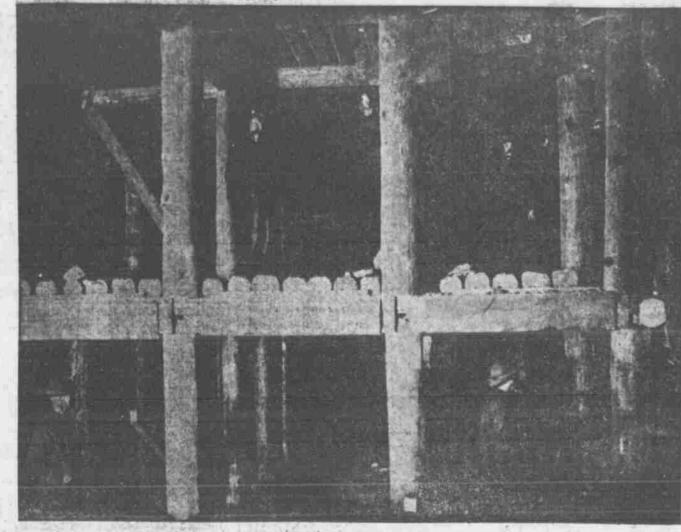
Miner's Neglect the Cause.

It is said on the very best of authority that the fire originated from a blast set off in the stope by one of the workmen, a foreigner, who fired his holes close to where the timbers in the stope are the thickest. It is usually the custom after firing a round of holes for the miner to return and less what his shots have done, in fact it is demanded that he do so, so should there be dangerous ground he can warn the shift are the largest in the mines. that is to follow of the conditions, and put out any fire or smudge which may have been left from the burn ag fute or particles levels and in other parts of the mine, rescue the horses and mules and get them to the surface and safety.

Material for the Fire.

Some idea of the magnitude of the undertaking to fill the mine with water may be had from the fact that there are over fifty miles of railroad track laid in the various tunnels and drifts of the mine; that for twenty years a line of narrow gauge reliroad has been hauling timbers to Lead, and all of that timber has been placed in the mine; that some of the stopes, which do not include the fifty miles of tunnels and drifts, are big enough to take in The Bee building and have room for other ameller buildings. Many of the stopes are so closely filled with timbers that it is almost impossible to pass through them, and were all of the lumber in the houses of Lead placed in the mine, it would not be a quarter of the amount that is in the I mine, so the fire, should it spread from its present place, has an unlimited amount of material to work on.

in estimated with Whitewood creek and Deadwood creek, the natural flow of water into the mine (1,000 gallons a minuis), and the water from Spearfish creek that it will take forty-seven days to flood the mine to a print above the 300-foot level, two levels above the present location of the fire. It is said that the mine can be pumped out within sixty days and that the workings can be put in shape again within three months from the time the mine has been drained. During the time that the mine is being filled the fire will be fought until the men can no longer remain in the workings. This will done in the hope that it can be corralled and that it will not be necessary to flood the mine above the 600-foot level. At the present time nothing is being dons around the property except fighting the fire and watching the water raise in the workings. On Saturday night the water



IN THE STOPE ON THE 50-FOOT LEVEL OF THE HOMESTAKE-TEN STORIES OF TIMBERING CAUGHT FIRE.

Story of the Homestake.

In the summer of 1876 the Manuel broth- tracted considerable attention from miners,

had reached almost to the 30 foot level, sions. They afterward worked some of the the proposition and make a report on it. but after it has passed that level the raise ore in a small stamp mill which had been. The report made by Mr. Hearst was satiswill be slow, as the 800-foot levels above erected on the present site of Lead. By factory and he was instructed to secure both of these methods the ore paid, al- the mine if possible for Haggin and his ore from an open cut on the Homestake 1878, has continued paying dividends, ranthough a close saving of the gold could associates. This Mr. Hearst did, securing claims. At this time no attempt was made ging from 10 cents to 50 cents per share, not be made. The richness of the ore at- the property for about \$100,000.

WORKING A MACHINE DRILL UNDERGROUND AT THE HOMESTAKE.

ground, an eighty-stamp plant, which cost, milling and gold saving were crude, the acres (the original Homestake claim) has completed in July, 1878, being supplied with plant was cleaned up, and from October, to treat the tailings from the mill nor from not missing a month. In round numbers, the mills erected later, and it was not done since October, 1878, the mine has produced of unexploded powder. The fellow ers, prospectors, discovered the original especially from those who came from the who fired the shots failed to do, and it Homestake mine, on the divide between quartz districts of California, a number. In November, 1877, the Homestake Mining several years, after which it was common to the divide between quartz districts of California, a number. been exploded that the fire was discovered, face the ore was very rich, and, for a time, sentatives in the Black Hills looking up \$16,000,000, divided into 190,000 shares. At ning the tailings over Brussels carpets and ments and the purchase of water rights and then it was too late to do more than the Manuels worked the ore which they good propositions. J. B. Haggin being this time \$100,000 was paid in to pay for the saving the concentrates, which later were and additional ground, including adjoining to warn the men working on the lower took from the openings made on the prop- among that number. Reports of the rich- property, and afterward two assessments smelted, but at so high a cost that little incorporations, paying during that time erty in an arastra, a primitive mill, such ness of the Homestake claims coming to his of \$1 per share were levied upon the capital profit was obtained from them. Although, something in excess of \$15,000,000 in divias was used centuries ago in Mexico, and attention, he sent the late Senator George stock, realizing \$200,000. This money was when compared with present methods in dends. by the Spanlards in their American posses- II. Hearst to the Black Hills to look into utilized to build the first mill upon the use by the company, its first attempts at From time to time the original eight

including transportation, \$140,000. It was property paid from the first time its milling been added to, until at the prosent time the company's holdings in the immediate vicinity of Lead amount to 2,600 acres, mostly all of it valuable mining property. upon which workings have been established.

> Immense Plants in Operation. Year by year the company has been improving its property and its milling and treatment plants, and from the first eightystamp there has grown up a system of mills and cyanide plants, and slime treatment plants that cannot be equalled by any other in the world, and the mills having a daily capacity for treating 4,000 tons of ore, the cyanide plants a capacity for retreating the tailings from all of the 1,000 stamps' dropping and the slime plant a capacity of 1,500 tons a day. All of the company's six mills have been until the fire in daily operation, three of these being located in Lead, two in Terraville and one in Central City, and all of them connected with a network of railroad lines, underground and surface, operated by steam and compressed air. The cyanide plants of the company, the largest in the world, are located in Gayville and Lead, being connected with the mills by pipe lines which convey the tailings to them for retreat-

A year ago the company began the construction of a slime plant above the city of Deadwood and it is now running, but will close down in a day or so, the company having expended about \$600,000 upon

Established upon its different properties and handling all of the ore mined daily in its underground workings, the largest of the hoists, the Ellison, being next to the largest in the world and costing with its equipment in the neighborhood of \$700,000.

Railways and Other Works. In the first years of its operation the company built a system of narrow gauge railroad lines, radiating from Lead through the wooded sections of the Black Hills and connecting with the Northwestern system at Piedmont, forty miles distant, in all a trackage of about fifty miles. Over this system of roads the company hauled its fuel, mining timbers and other supplies until a few years ago, when it sold this system of roads to the Chicago, Burlington & Quincy, which company is now operating it at a profit, the company receiving for the same a handsome compensation.

It has but recently completed a system of water works, taking water from the Spearfish river twenty miles distant. At the town of Hanna, fifteen miles distant, the company has established a pumping station, which lifts this water over a divide of 500 feet, where it is delivered into a tiled ditch and conveyed to reservoirs in Lead This is but one of the company's water systems, costing for the installation of pumping machinery, construction of ditch and labor \$1,000,000.

On the line of the new water system the company has recently completed and placed fifteen degress above zero. And they prac- in operation a power plant for the generation of electricity at a cost of about \$300,000, from which power is furnished for two of

On the company's grounds in Lead are machine shops capable of making any necessary repairs to the machinery in operation; a foundry, in which castings to the weight of ten or twelve tons, can be made; carpenter shops, repair shops of all kinds and department buildings in which the business of the corporation is transacted, all connected with a private telephone system, which includes in its ramifications the most distant parts of the underground and surface workings of the company, its wood and timber camps, its lime and other camps. In fact, it is as complete and extensive as that of a good sized city. It would be a small estimate to place

the cost of the improvements, the buildings, the milling plants and their contents, owned by the company at \$30,000,000. In the employ of the Homestake company

up to the time of the fire were 2,500 men, who received an average wage of \$1.26.

Lead is not a mining camp in one sense of the word, for it would be difficult to

Lead and the Homestake.

find in an eastern city of the same population the same facilities. Its public school system is without an equal, its school children have greater facilities, are more comfortably housed and cared for, than in any city of the same population in the east. Its streets are paved, it is lighted by electricity, connected by telegraph and telephone lines with the outside world, has handsome and substantial business blocks. one of the largest banks in the west, a splendid water system and many other conveniences not enjoyed by cities nearer the seaboards. It is substantially a city of homes and handsome residences, which are owned and occupied by employes of the Homestake company or those who derive indirect support from the working of its mines. All of the advantages and improvements, all of this substantiality has been made possible by the operations

tween 7,000 and 8,000, but it is estimated that at least 2,000 have left in the last year, and of this population 2,000 were (Continued on Page Four.)

of the Homestake Mining company, which had distributed something like \$220,000 a month in wages to its peoples until a few weeks ago. Lead had a population of be-

Cadet Battalion of the Omaha High School Makes Fine Appearance



Fruit Trees Are Apparently Caught by a Second Winter

and will emerge again in such time as the 1907, has caused it.

bank of Nebruska, who has done errafic and wonderful wizard, raise our bilgrard every day or night since the first slowly melted, saturating, soaking all fruit longing to get out, and with favorable days hering. Some plants on ours and neighbormore to improve the fruit and hopes on high, only to blast with a blissard. week in April, until April 3, the first day make the orchards of Nebraska. Never before has there been such peculiar, without a frost and warm enough for polthan any other one man in the ill-defined interest and aggressive curiosity lenation and procreation. state, says we will have plenty of fruit yet. about the fruit crop from all parties and Generally two to four degrees of frost He gives as his reason the fact that the in all callings, for nature's high kicking in rules, the stone fruits, and five or six is traes went into winter quarters in April her operatic tableau of March and April, dangerous to pears and appies, when near

warm days of spring finally come. Mr. She has daugled us on the torrid line of has been from ten to fourteen degrees Williams furnished The Bee with the fol- the equator. She has regaled us from the below freezing, without any apparent inlowing statement, and photographs from ice chest of the northwest passage. She jury to our truit crop until the morning which the accompanying pictures are has plunged her polynant dagger of frost of April 19. Then the demon of the north Present Condition of '07 Fruit Crop. of the full buds and blossoms of this year's all day. About seven inches covered the

the blooming time. Night after night it deeper into the tender fescudating organs took new tactics. On the 17th enow fell "Oh, dear! dear! what can the matter be? crop and has kept more persistently at it trees and all the fruit bude and blossoms

thermometer fell to eighteen degrees- fruit crop.

Looking at those icicles I made up my The sap stopped circulating, the bark on

INODORE WILLIAMS, the Bur- Matter be!" Oh, why does nature, that than ever before. It has been a freeze or with snow, and then on the 17th and 18th it mind that within there was still teft a life tree and fruit stem became dry and ad- and distributed to the company's milis and buds and blossoms, and then on the night from then on for their fecundation, were ing places took on the changing hues as in of the 18th and morning of the 19th all the still able to greet us with nearly a full

a. m., and at twenty-two at 7 to 8 a. m., to have its usual effect is simply this: The would not lose our fruit prospects this still ten degrees of freezing. This unpre- fruit felt the influence of that hot summer cedented cold was accompanied by a freez- weather for a long time in March and early ing white frost deposit as dense and wet blooming sorts came out with their blosas a rain. This encased every fruit stem. soms. This was followed by winter condibud and blossom, and every organ of pro- tions in April. These trees, buds, blossoms below freezing down to eighteen above its mills. creation was frozen into solid, brittle and all, simply concluded their season was zero. All fruits are practically in good over and tried to go into winter quarters, condition now but apricots,

the fall. Noticing what the trees were dofourteen degrees below freezing at 2 to 3. The reason why freezing has not appeared ing I made the claim to friends that we year unless the mercury fell lower than tically did even better, for on the 19th when seaked, they stood fourteen degrees

THEODORE WILLIAMS.



ROW OF JAPAN PLUMBIN BLOOM IN THE SNOW.



STELLA APRICOT, LOADED WITH FRUIT AND SNOW-STILL HAS FRUIT AFTER GREAT FREEZF OF APRIL 18.