

EXHIBIT 1

Idaho-Maryland Mine Site

Shaft & Headframe
 Crusher & Stamp mill
 Sawmill (built in 1920's era)
 Numerous ancillary buildings

Mitchell (Lilly / Pioneer) Mine

Eureka Mine Shaft

Roundhole Shaft & Headframe

Idaho Maryland facilities

1. Morehouse rock quarry
2. Tailings ponds
3. Parking garages and material storage
4. Warehouse and material storage
5. South Idaho mine shaft
6. Flotation and Cyanide plants
7. Log pond
8. Lumber drying area
9. Idaho-Maryland Sawmill

New Brunswick Mine Site

Shaft & Headframe
 Mineral Process Plant
 Numerous ancillary buildings

Old Brunswick
 Shaft & Headframe

Centennial Industrial Site
 (outlined in red)

Aberdeen Tunnel

Goldpoint Tunnel

Surface land currently owned by Rise (2023)

Brunswick Sawmill

LEGEND

Vesting Date = October 10th, 1954

 Vested subsurface mineral estate
 (Owned by Rise and owned by Idaho Maryland
 Mines Corporation on Vesting Date)

 Vested surface estate
 (Owned by Rise and owned by Idaho Maryland
 Mines Corporation on Vesting Date)

 IMM Surface ownership at Vesting
 Date (Owned by Idaho Maryland Mines
 Corporation on 1954 Vesting Date)

 Major site associated with Idaho
 Maryland Mines Corporation

 Facilities associated with Idaho
 Maryland Mines Corporation

New Brunswick / Union Hill Facilities

1. Lucky mine
2. Cambridge mine
3. Gold Blossom / Frankfort mine
4. Union Hill waste rock dump
5. Tailings ditch to Idaho Maryland tailings ponds
6. Parking garages and waste rock dump
7. Materials storage area
8. Sawmill debris dam and pond
9. New clearing in 1952

Union Hill Mine Shaft

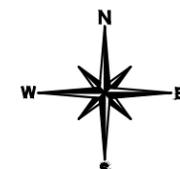
Brunswick Industrial Site
 (outlined in red)

Surface land currently owned by Rise (2023)



Idaho-Maryland Vested Right Petition

Rise Grass Valley Inc.
 PO Box 271
 Grass Valley, California, USA 95945



SCALE 5,000 ft



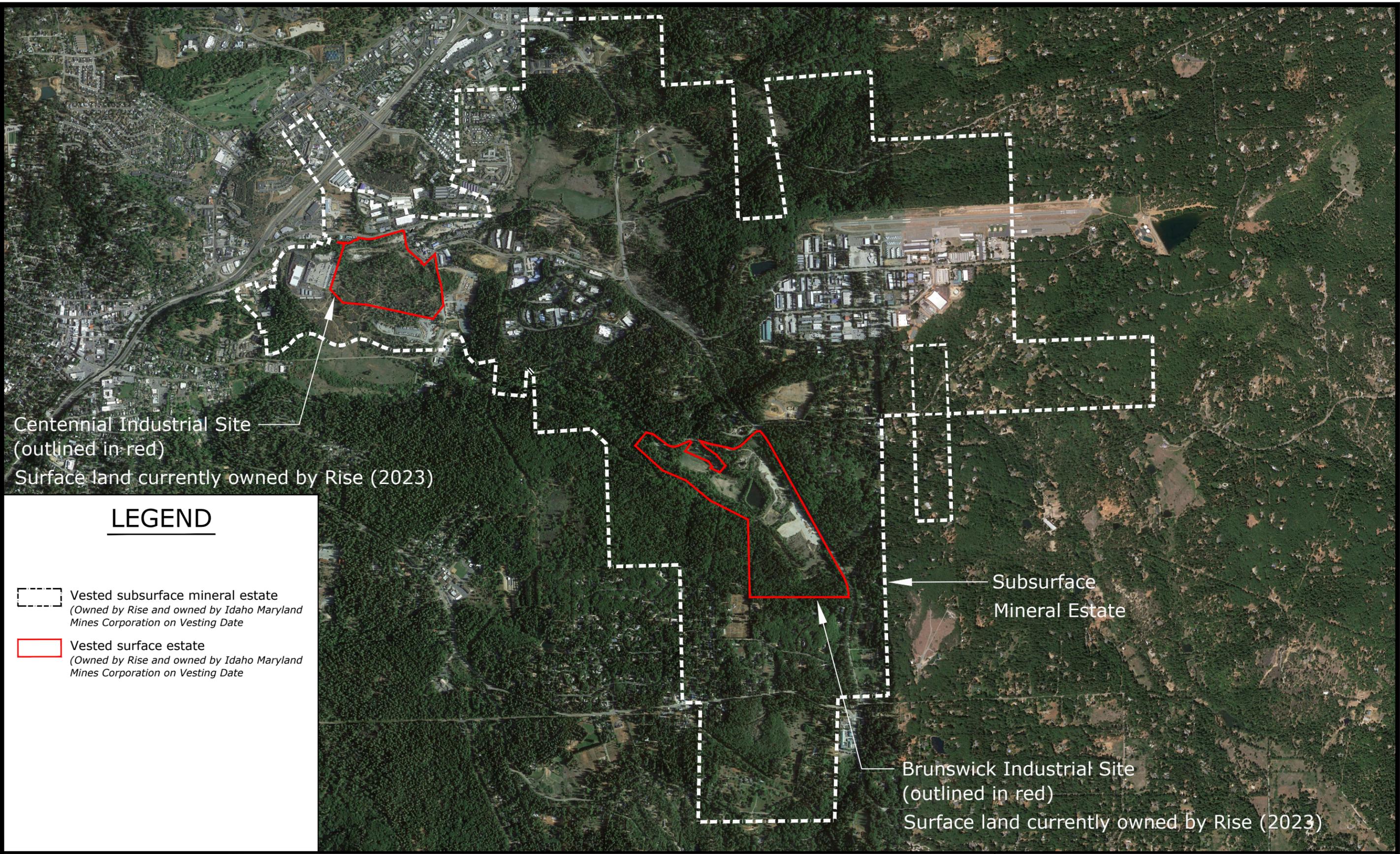
Rise Grass Valley - September 1st 2023

Overview of Vested Area

Sheet 1

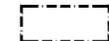
Showing location of historic mines and facilities

EXHIBIT 2



Centennial Industrial Site
 (outlined in red)
 Surface land currently owned by Rise (2023)

LEGEND

-  Vested subsurface mineral estate
(Owned by Rise and owned by Idaho Maryland Mines Corporation on Vesting Date)
-  Vested surface estate
(Owned by Rise and owned by Idaho Maryland Mines Corporation on Vesting Date)

Subsurface
 Mineral Estate

Brunswick Industrial Site
 (outlined in red)
 Surface land currently owned by Rise (2023)

EXHIBIT 3

shoulder.

Mining News.

GRASS VALLEY, January 27.—The Grass Valley Consolidated Mine, better known as the O'Connor, yesterday had a clean up from fifty-one loads of rock. The result astonished and excited the people of this town. Fifty-one loads of rock gave the mill \$7,000. This morning Sindley & Co. shipped the brick. This crushing was taken out by Dan. Collins, Superintendent, who had become tired of seeing the mine idle, and tried an experiment with the rock.

The Greenhorn Mine is turning out very rich specimens of rock. The success of the O'Connor Mine has started several companies to work on old locations.

EXHIBIT 4

Idaho Quartz Mine – Lithograph from 1880

Searls Historical Library –DR 1-162

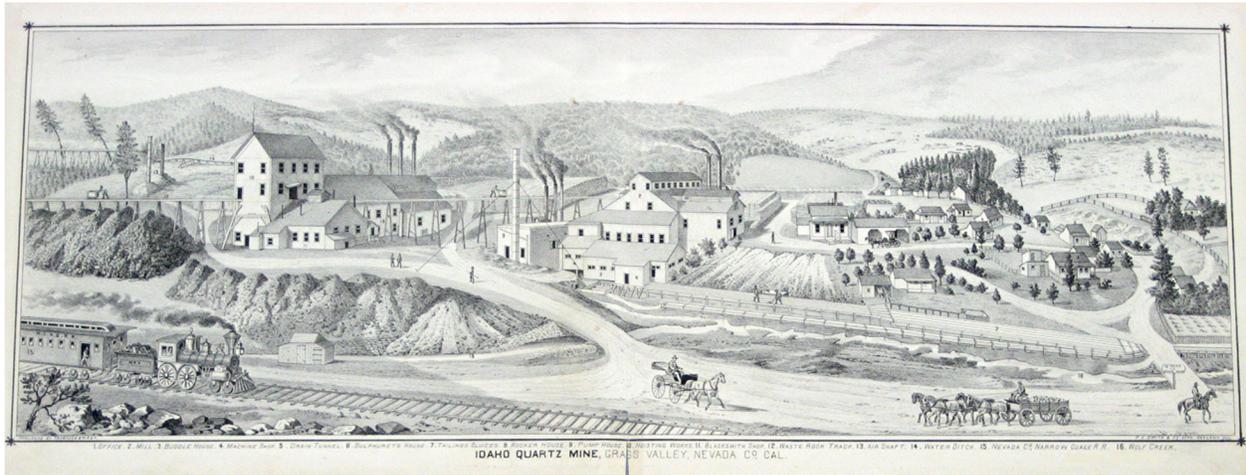
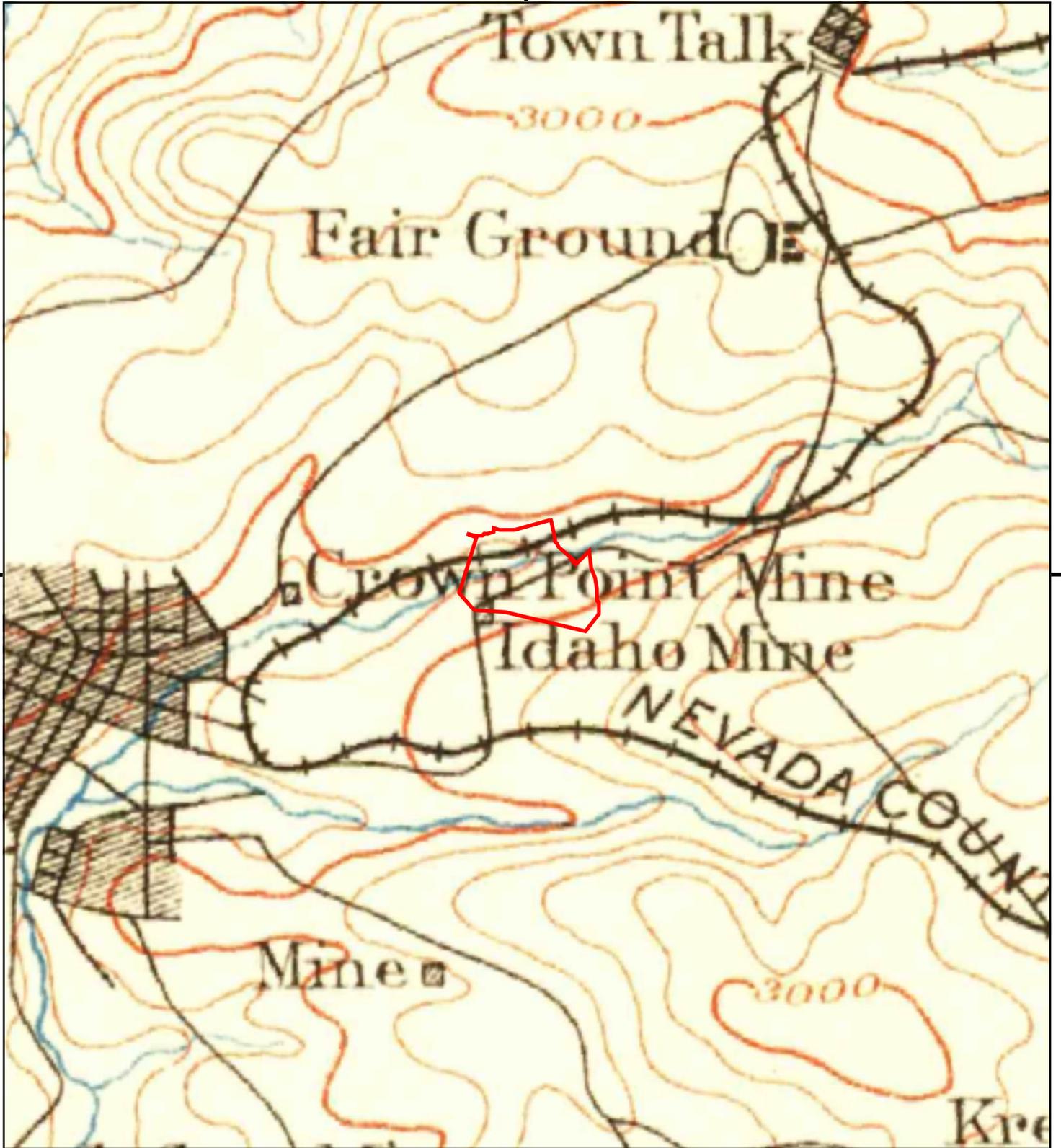


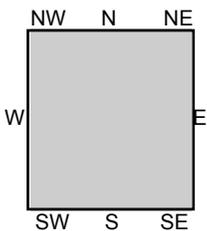
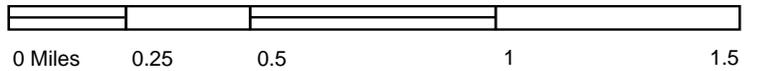
EXHIBIT 5

The *Foothill Tidings* says: The shaft at the Brunswick mine is now at a deeper point than has ever been attained heretofore. A solid ledge varying from two and a half to three feet in thickness and between two as pretty walls as man would want to look at according to Superintendent Tilley, justifies the opinion that the prospects are better than any previous developments have shown. The rock shows sulphurets in quantity and of good quality, and improves with depth. A level known as the 300, and which was the deepest workings of the old companies, has been passed through by the shaft. In this level drifting will be done. There are fourteen men employed at the Brunswick and this number will be augmented next week, when stoping will be in order. The mill will start up at about the same time.

EXHIBIT 6



This report includes information from the following map sheet(s).



TP, Smartsville, 1888, 30-minute

SITE NAME: Centennial Site
 ADDRESS: 10350 Centennial Drive
 Grass Valley, CA 95945
 CLIENT: Rise Gold Corp.

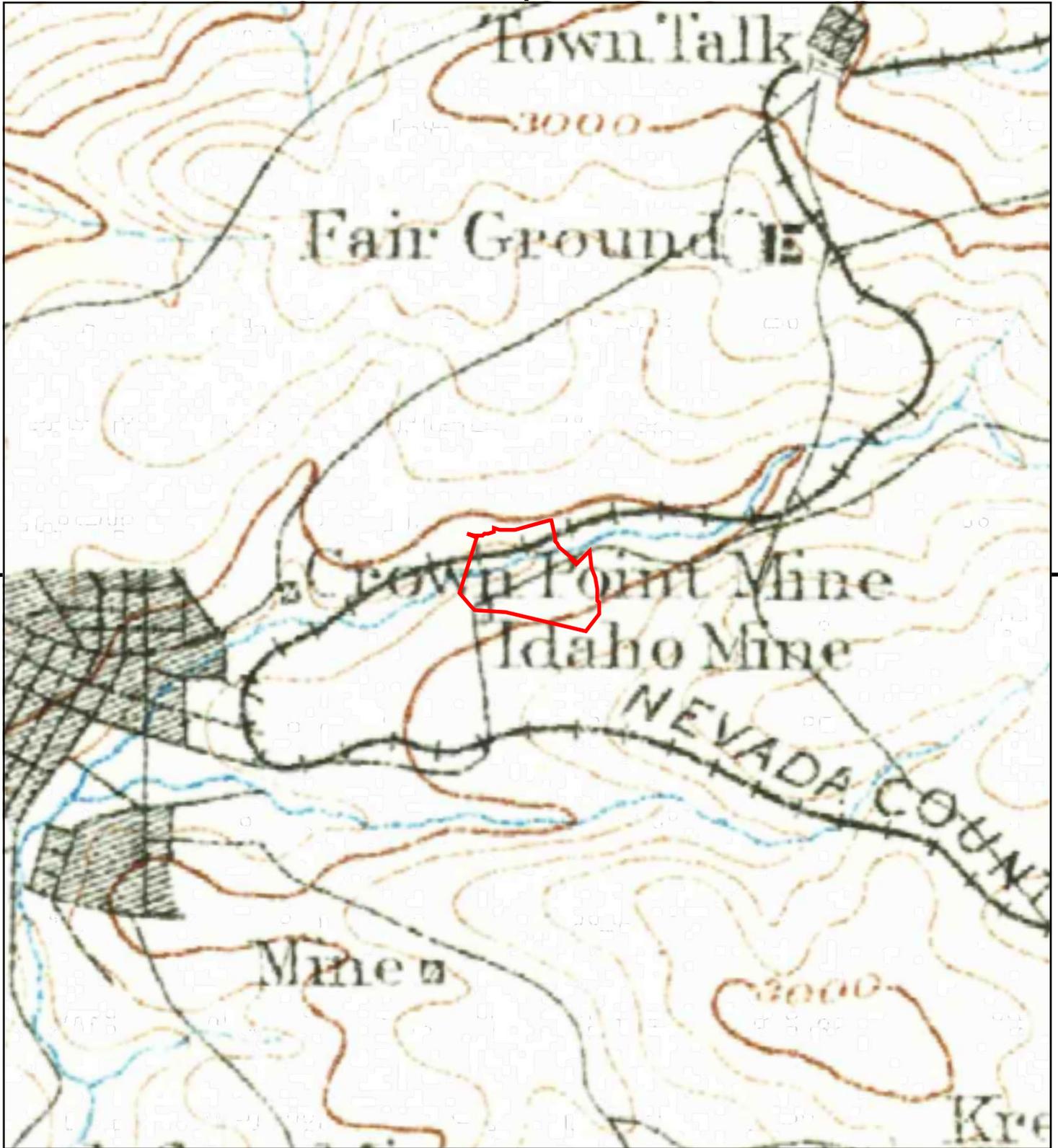


EXHIBIT 7

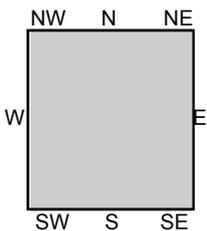
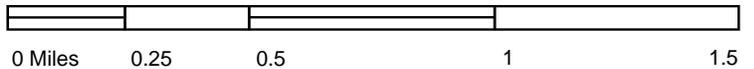
Strike in the Idaho Mine.

GRASS VALLEY, Sept. 11.—Last night in the famous Idaho mine a new ledge of free milling ore was struck below the 1700-foot level. The rock will mill from \$80 to \$100 a ton. The find of last night is not of a similar one to the deep find of a few months ago which so excited mining circles. The strike last night was made in sinking the main shaft.

EXHIBIT 8



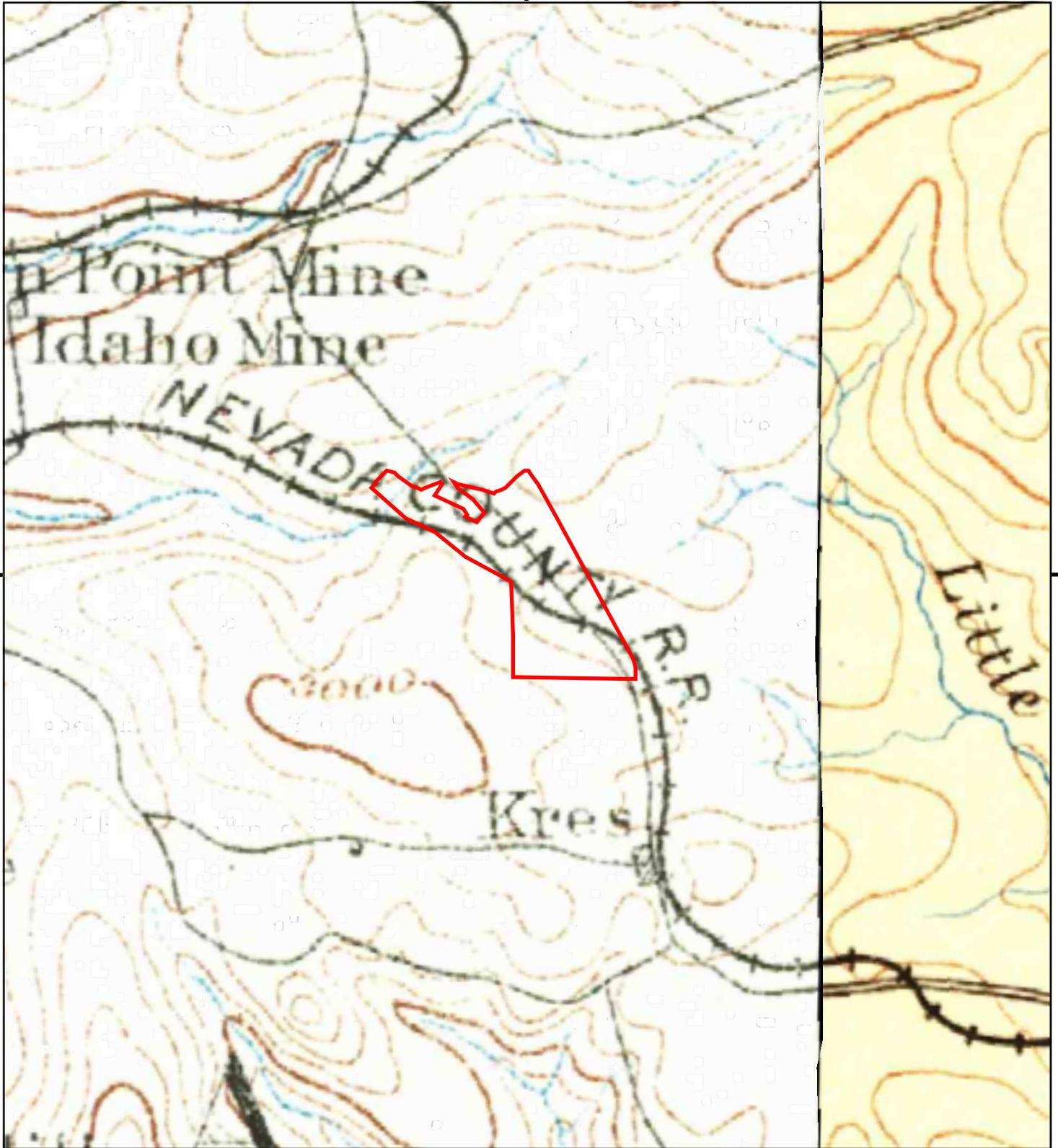
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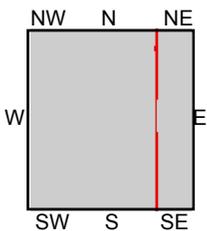
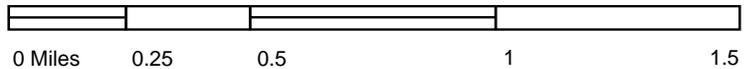
TP, Smartsville, 1891, 30-minute

SITE NAME: Centennial Site
 ADDRESS: 10350 Centennial Drive
 Grass Valley, CA 95945
 CLIENT: Rise Gold Corp.





This report includes information from the following map sheet(s).



TP, Smartsville, 1891, 30-minute
E, Colfax, 1891, 30-minute

SITE NAME: Brunswick Industrial Site
ADDRESS: East Bennett Rd
Grass Valley, CA 95945
CLIENT: Holdrege & Kull Consultants



EXHIBIT 9

THE IDAHO MINE.

Grass Valley Has the Richest Gold Mine in the World.

Permanence and Value of the Quartz Lodes in the Grass Valley District.

GRASS VALLEY, Feb. 8.—I donned a suit of rubber clothes, stepped into the cage, and in less than two minutes was 2,000 feet beneath the sod. Six feet is all that the man who "shuffles off this mortal coil" asks for, but he who is following the fickle goddess in her dips, spurs and angles, stops not as long as machinery can keep his shaft free from water, and a gold-bearing quartz vein is in sight.

Two thousand feet! The deepest gold mine in the world, the Idaho, one that has made many millionaires, and to-day is the greatest gold producer on the continent!

The Grass Valley *Evening Telegraph* a few evenings since contained the following item:

"On Monday evening the Idaho Mining Company declared a dividend of \$1 per share on the capital stock. This makes 260 dividends declared by the company. The mine is looking well throughout, and is destined for a long life yet."

Two hundred men are employed in extracting the rich body of ore. The shaft is almost vertical, but the machinery is of such a stable character that one trusts himself to the yawning dark depths with little or no fear of accident. Many men, however, have gone down in the Idaho in the full vigor of manhood, who were taken out bleeding and mangled corpses. More men have lost their lives in this richest of all gold mines in the world than in any other similar working in the State.

Three dollars a day. It is good wages, and the man who keeps steadily at it supports his family well, educates his children and lays aside a snug little sum for old age or a rainy day. The neat little homes of the Grass Valley miners indicate a degree of prosperity seen in but few places upon the coast.

County Surveyor Uren, who knows the value of every mine in the district better than any other individual, who has surveyed all their tunnels, drifts and stopes, says that the Idaho is a mine that in all probability will pay dividends to its fortunate owners for many years.

It is owned by Edward Coleman, John C. Coleman of Grass Valley, Judge Miles O'Connor of San Jose and George D. McLaine of San Francisco. It has produced over \$13,000,000 in bullion, more than two-thirds of which has been profit to the fortunate owners. Edward Coleman is Superintendent and one of the best posted miners on the coast. He made a start at Iowa Hill in gravel mines in the early fifties, and has always been successful in his mining operations.

The Idaho is situated on the south side of Wolf Creek, one mile south of Grass Valley, at an altitude of 2,450 feet. The course of the vein is east and west, with a dip to the south, varying from 55° to 73°. During the years of 1889 and 1890, thirty-nine thousand two hundred and twenty-five tons of ore, valued at \$20 per ton, were extracted.

It may be stated that there never has been a time since quartz mining began in the Grass Valley District, forty-two years ago, but that one or more quartz mines have been worked at a profit, while a similar statement cannot be made of any other mining district on the Pacific Coast. From the best obtainable data it is estimated that the quartz mines of Grass Valley have produced over \$100,000,000 in gold bullion. This is sufficient to indicate the value and permanence of the quartz lodes of the district and its mining prospects for the future.

The Idaho mill has forty stamps, sixteen concentrators and the finest water power in the county, having a pressure of over 500 feet. John Carter, an experienced miner, has been foreman for years.

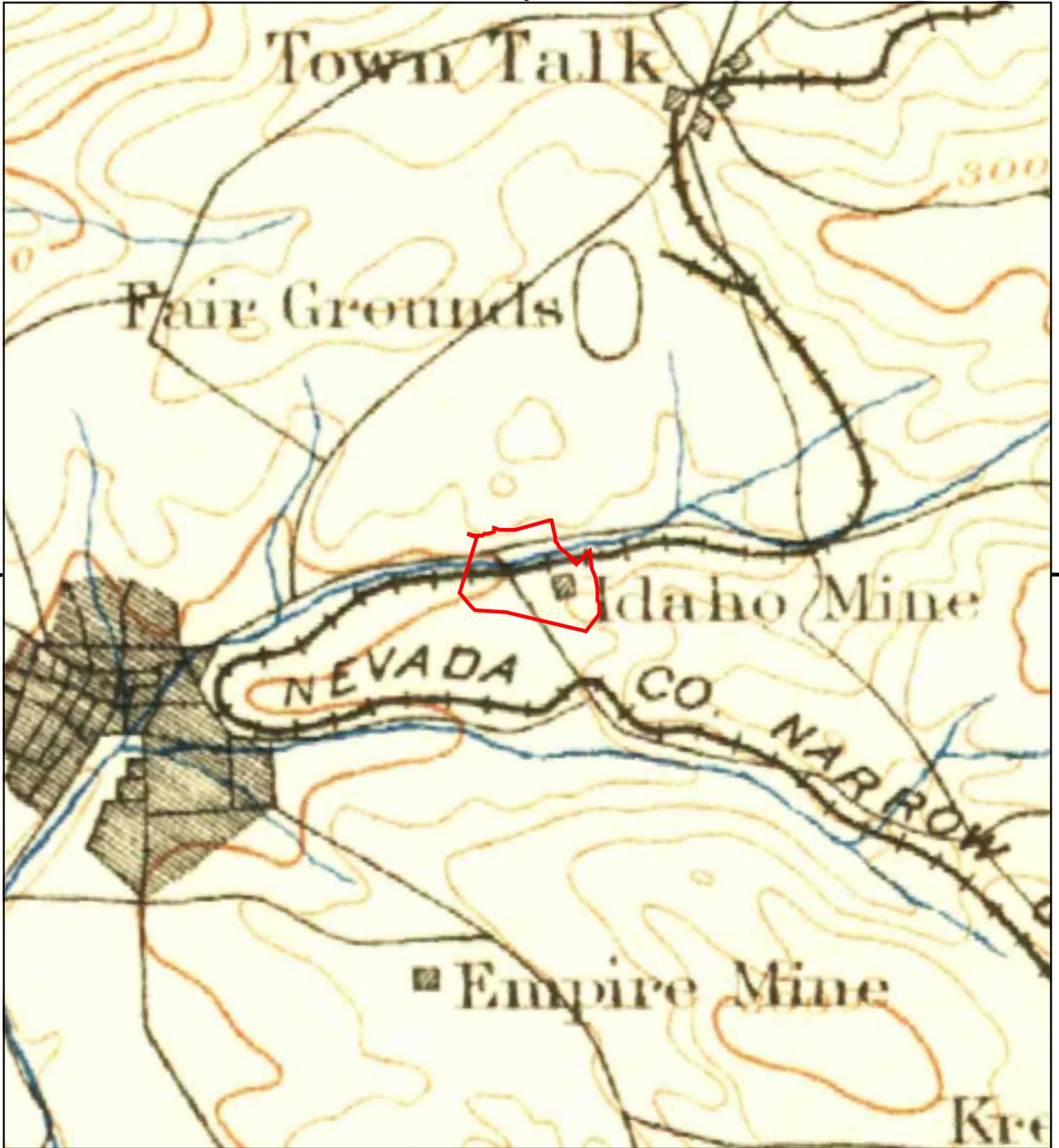
A sketch of the Idaho without reference to the Eureka would be like writing "Hamlet" with the Dane left out. The Eureka was located in 1851, just across Wolf Creek from the Idaho, and worked by different parties with poor success, the ore near the surface being low grade. In 1865 the mine was sold for \$400,000, and the Eureka Company was incorporated. The mine had only been developed on the surface. The new company sent down a shaft, and in the next two years took out \$1,200,000, and the mine continued to pay large dividends for years. Its dividend record was \$2,134,000, and its pay chute dropped into the Idaho and the Colemans got it.

The Eureka was so rich that extensions were considered valuable. Judge A. B. Dibble—well known in Sacramento—the leading attorney in Nevada County today, was one of the original locators of the Idaho, and at one time owned a controlling interest.

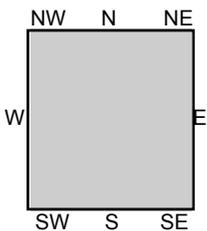
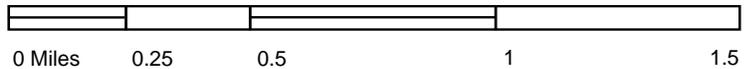
William Watt, the leading man in the Eureka, did not think that the pay chute passed into the Idaho, and he advised Dibble to sell, which he did. It was the advice of a friend, and Dibble hastened to get rid of his stock. That advice cost the Judge some millions, but he treasures no ill-will toward his advisor, whose memory is revered in Grass Valley, and as a token of their respect for the dead they have erected a magnificent monument to the big-hearted miner who never took advantage of any one and whose purse-strings were always loosed for charity. His widow lives in Grass Valley, at the old homestead.

J. H. M.

EXHIBIT 10



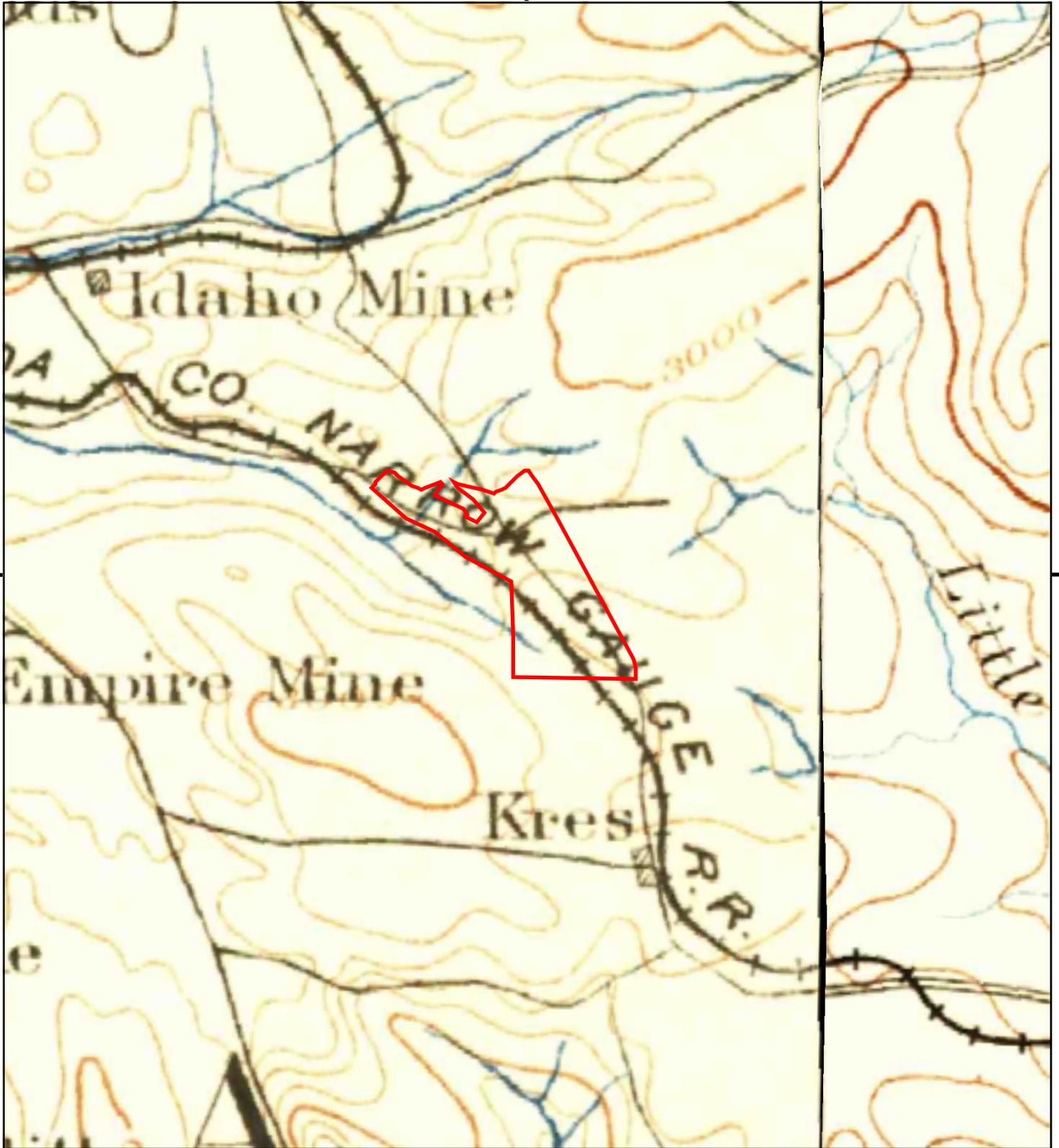
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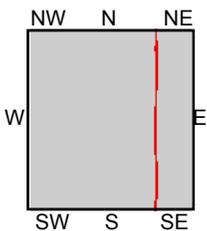
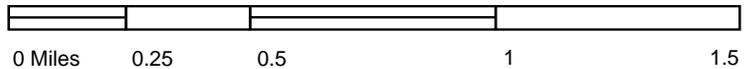
TP, Smartsville, 1892, 30-minute

SITE NAME: Centennial Site
 ADDRESS: 10350 Centennial Drive
 Grass Valley, CA 95945
 CLIENT: Rise Gold Corp.





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TP, Smartsville, 1892, 30-minute
E, Colfax, 1892, 30-minute

SITE NAME: Brunswick Industrial Site
ADDRESS: East Bennett Rd
Grass Valley, CA 95945
CLIENT: Holdrege & Kull Consultants



EXHIBIT 11

An important improvement has been made in the South Idaho mine, at Grass Valley, and the Tidings has the following in relation to it:

Recent developments at the South Idaho mine are of a very encouraging nature. During the past week the ledge has improved in appearance very much.

The shaft has attained a depth of 128 feet, and the ledge is fully two feet in size, the rock showing free gold in good quantities. Apart from the size and nature of the ledge, the owners have reason to be proud of the fact that only surface water is encountered, and it is now certain that the Idaho mine drains the entire length of the South location, 3000 feet. Seventeen years ago in the 700-foot level of the Idaho mine, going east, a large stream of water was struck, and at the same time several wells and springs near the residence of Joseph O'Keefe were drained. It has developed that the South Idaho ledge was also drained at that time. As above stated, the only water found in the South Idaho is surface water, and at this writing amounts to but 500 gallons in twenty-four hours.

The company will be able to sink fully 700 feet without having water to handle. This, of course, means a saving of thousands of dollars which would otherwise be expended in pumping, etc.

The mine is in the same mineral belt as the Idaho-Maryland, and but 1500 feet south of its illustrious neighbor, and bids fair to rival it as a producer.

Nine men are steadily employed, and sinking is going on all the time.

Considerable quartz is extracted every week and if the company had a mill on the ground enough could be extracted to more than pay all expenses.

EXHIBIT 12

Idaho Maryland Mine ca. 1894

Searls Historical Library –PIC 5-MIN-B 67

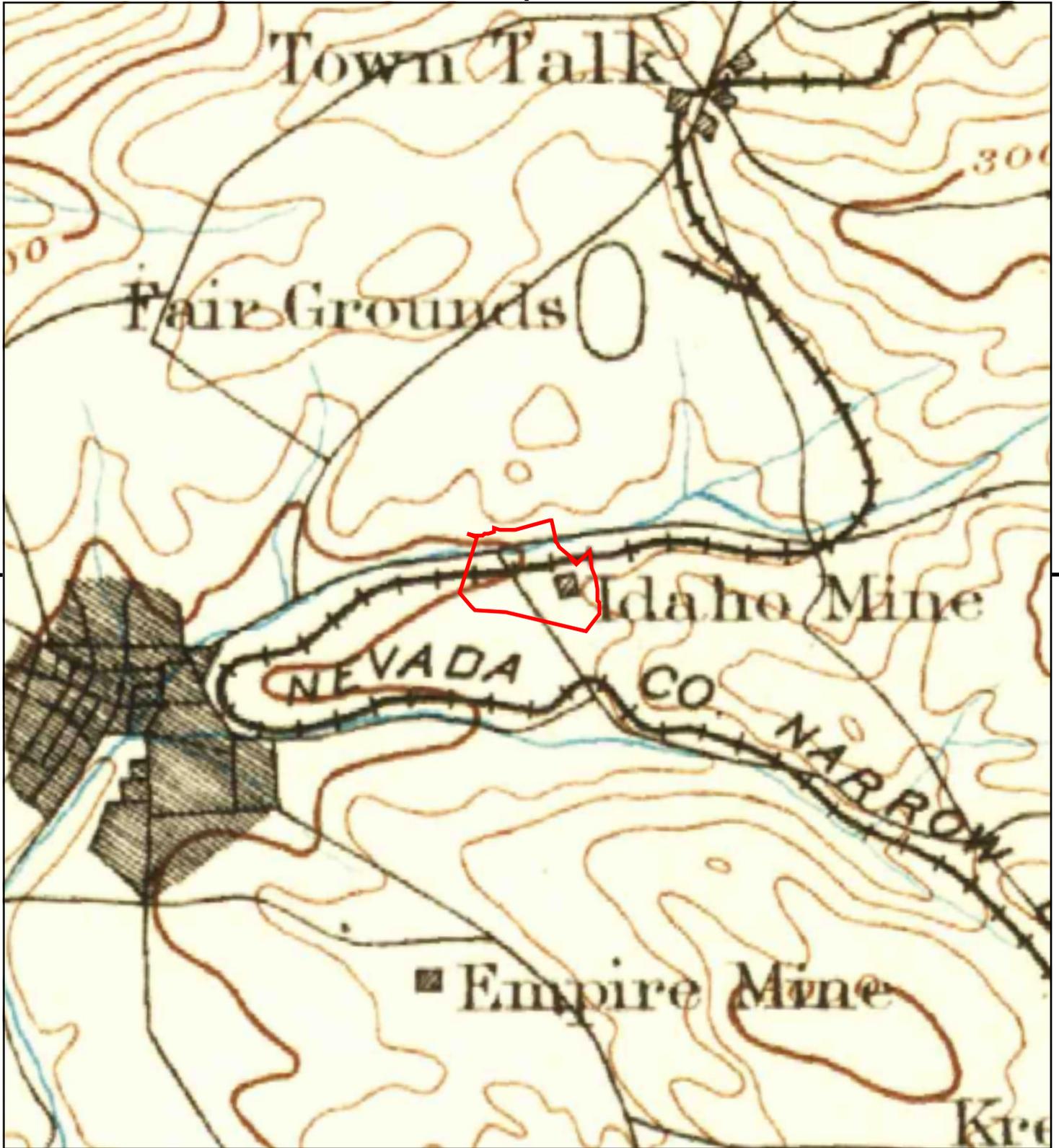


EXHIBIT 13

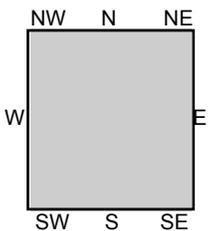
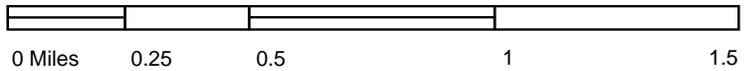
Grass Valley Telegraph: Some very rich ore from the South Idaho mine has lately been shown on the streets. The rock was filled with pure quartz gold and was of that nature which would command attention among miners even though no gold was visible to the eye. The rock came from a depth of 100 feet, and a hole two feet and a half had been drilled into the ledge, and still its width had not been reached.

Nevada City Herald: Part of the ore from

EXHIBIT 14



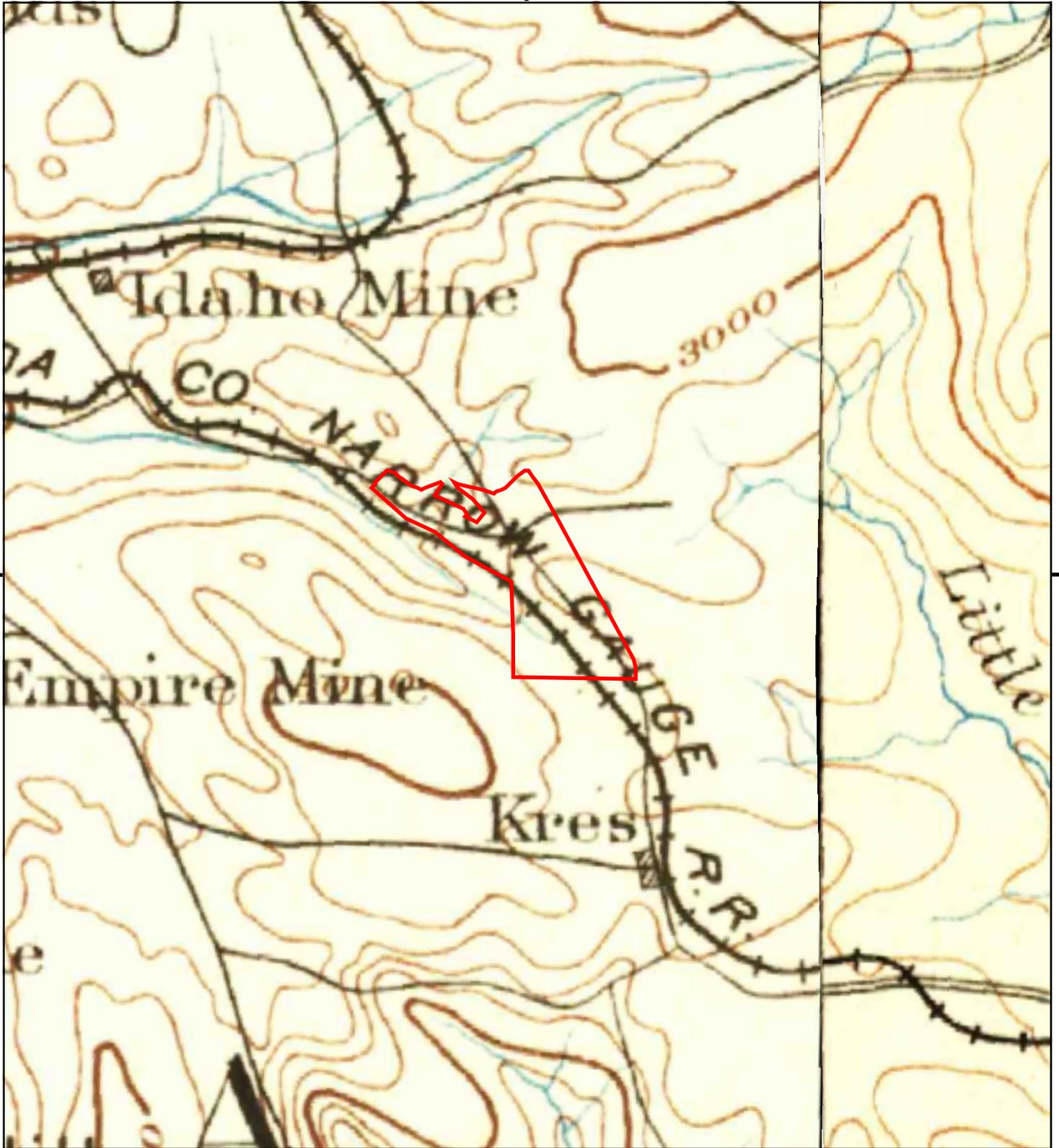
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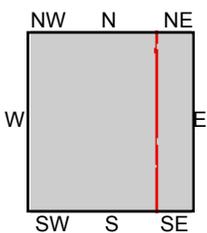
TP, Smartsville, 1894, 30-minute

SITE NAME: Centennial Site
 ADDRESS: 10350 Centennial Drive
 Grass Valley, CA 95945
 CLIENT: Rise Gold Corp.





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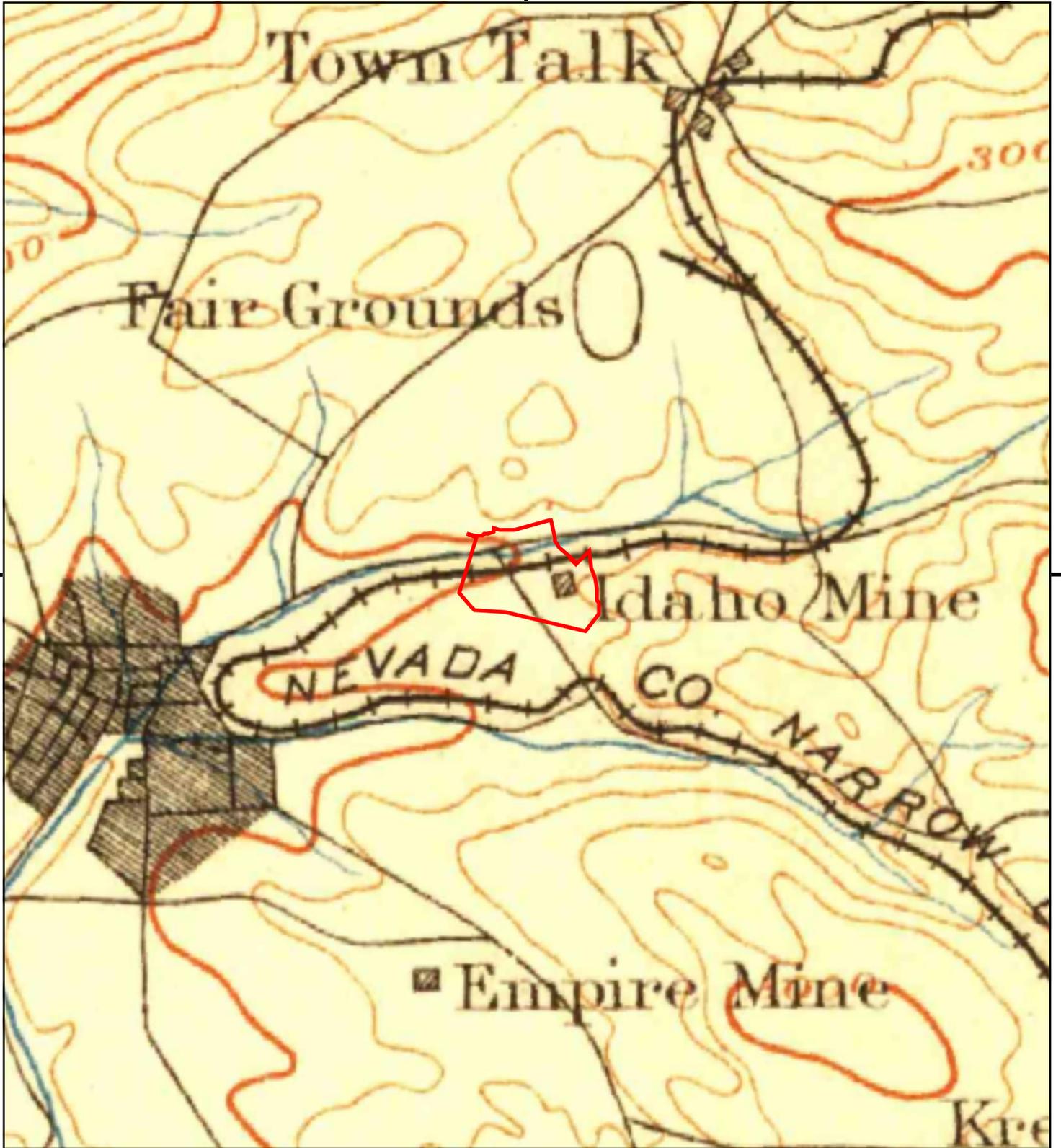


TP, Smartsville, 1894, 30-minute
E, Colfax, 1894, 30-minute

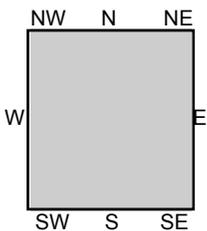
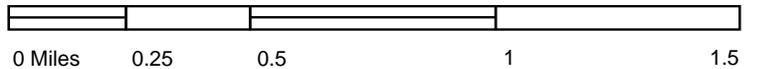
SITE NAME: Brunswick Industrial Site
ADDRESS: East Bennett Rd
Grass Valley, CA 95945
CLIENT: Holdrege & Kull Consultants



EXHIBIT 15



This report includes information from the following map sheet(s).



TP, Smartsville, 1895, 30-minute

SITE NAME: Centennial Site
 ADDRESS: 10350 Centennial Drive
 Grass Valley, CA 95945
 CLIENT: Rise Gold Corp.



EXHIBIT 16

1896_09_12 – The San Fransisco Chronicle

The South Idaho mine, located near the famous old Idaho, in Nevada county, has been purchased by some parties in Buffalo, N. Y. The mine has a twenty-foot vein developed in a 100-foot shaft.

EXHIBIT 17

1896_12_14 – The San Fransisco Chronicle

The Grass Valley Telegraph has the following: Friday evening the miners at the Brunswick mine went into a good rich body of ore at the 900 level. The ledge was struck in the cross-cut about fifty feet from the shaft. The ledge is looking exceptionally good in the Brunswick at that depth, 900 feet.

EXHIBIT 18

Draft at the Brunswick.

Within the past few days twenty-five men have been laid off at the Brunswick mine, and only a dozen are now employed there under ground. As noted in the columns of The Union some time ago, extensive improvements were started at the mine, but the work was not completed. These improvements will now be pushed to completion, which will prevent the hoisting of ore, hence the laying off of the men. The outlook at the Brunswick is very promising.

EXHIBIT 19

PUMPING BEGUN AT UNION HILL.

The New Machinery Has Been Placed in Position.

Work of "Forking" the Mine Will Be Vigorously Pushed—A Description of the New Plant.

After a delay of several months on account of new machinery not arriving, the work of pumping out the Union Hill mine has recommenced on a large scale. A Union reporter visited the mine yesterday and was shown through the property by Superintendent E. C. Creller.

The hoisting works is a large structure, about 30 by 120 feet in size, and also attached to it is a good-sized boiler-room. A gallows frame 86 feet high has been put in place and is entirely covered by the building, which is about 100 feet in height. Cement and rock foundations carry the hoisting and pumping machinery and these are among the best in any mine in the county. The foundations for the large pumping machinery are fifteen feet deep and laid on bed rock, while those of the hoist are twelve feet deep. A new double hoist, which is run by an eight-foot Pelton wheel, has been installed and runs very smoothly. Only one-half of the hoist is used at present, as only one compartment of the shaft is required until the water is low enough to permit active development work.

The pump is running day and night and gives great satisfaction. It has a crown wheel fourteen feet in diameter, weighing fourteen tons. A large groove pulley wheel is connected on the same shaft as the crown wheel, and is fifteen feet in diameter. An endless rope runs from the pulley to the Pelton wheel, which is 9 feet 6 inches in diameter. The pump has a six-foot stroke, and is being run at the rate of seven strokes a minute. This is a fair speed, and with the assistance of a tank, which is lowered into the shaft about once a minute from the surface, the water is being lowered three or four feet a day.

Work of pumping out the shaft only commenced a few days ago, but the water is now down forty feet or more. When it has been lowered to the 180-foot level, the steam pump, which is now at that level, will be put in working order and water will be lowered more rapidly.

The Union Hill mine has been opened up to the 380-foot level, and the shaft for this distance is now

filled with water. Mr. Creller informed the reporter that the 180-foot level will undoubtedly be reached in about two weeks if everything runs well.

The steam hoist which was used before the new machinery arrived, has been placed near the new hoist and will be used in case of accident to the large hoist. When the mine has been entirely pumped out a large steam pump, sixteen inches in size, with an eight-foot stroke, will be placed on the 380-foot level, and it is expected this will handle all the water that will be encountered below that level. Water is now being raised at the rate of 480 gallons a minute by the pump and tank.

The shaft consists of three compartments—one for the pump and two for hoisting purposes, the water tank being run in the middle compartment.

Water power for the mine is brought from the South Yuba reservoir through pipes varying in size from twenty-two to fifteen inches, the pipe line being in the neighborhood of two miles in length. With the heavy grade of the line, the company has 485 feet of pressure at the hoisting works.

Surface work was commenced on this property last July and Superintendent Creller had the mine almost pumped out, as it was expected the new machinery would arrive months ago.

The Union Hill was first opened up about thirty years ago, but operations were suspended and the mine has been idle ever since. A new company now has charge of the property and nothing will be left undone to put the mine on a paying basis again. Several rich ledges are known to exist on this property and these will be developed when the mine has been pumped out. Great hopes are entertained that the Union Hill will become one of the best mines of the county, and with the new machinery which has been installed, work of development will be carried on at a rapid rate. Dahl Nivens is chief engineer at the mine, and quite a number of men are employed on the surface.

Special Notice.

The Cushion Tea to be given by the ladies of St. Catherine's Guild will be held in the rectory on Saturday, February 24th, afternoon and evening. The change has been made on account of other events arranged for Shrove Tuesday. W. H. Fenton-Smith, rector.

SICK HEADACHES.

The curse of overworked womankind, are quickly and surely cured by Karl's Clover Root Tea, the great blood purifier and tissue builder. Money refunded if not satisfactory. Price 25 cents and 50 cents. For sale by W. Loutzenheiser & Son.

EXHIBIT 20

UNION HILL PUMPED FREE OF WATER AND LEDGE MATTER FIVE FEET IN THICKNESS EXPOSED.

The indications at the Union Hill mine are indeed favorable. Yesterday the work of pumping out the shaft was completed, and the people of Grass Valley will be pleased to know that Superintendent Creller found the conditions at the bottom of the shaft just as he and others who were familiar with the mine expected. The shaft is down to a depth of 333 feet and there is a drift running east eighteen feet and another going west sixty feet.

The quartz encountered is exceptionally good, and gives additional reason to believe that the Union Hill mine will in a comparatively short time be on the dividend-paying list.

In the east drift there is a split-up ledge five feet in thickness, the rock showing well in free gold. The ledge

in the west drift is about three feet, and here the ore is also of a high grade.

The inability to handle the large volume of water in the shaft caused the shutting down of the Union Hill many years ago, but with modern machinery this difficulty has been eliminated. A new plunger pump will soon be put in operation, and this, with the one now in use, will enable the company to handle the water easily.

As is generally known, the output of the Union Hill up to the time it was closed down was about a quarter million dollars. The present company will systematically develop the property, and it is safe to predict the mine will in time materially increase the mineral output of Nevada county.

EXHIBIT 21

MONSTROUS BOB.

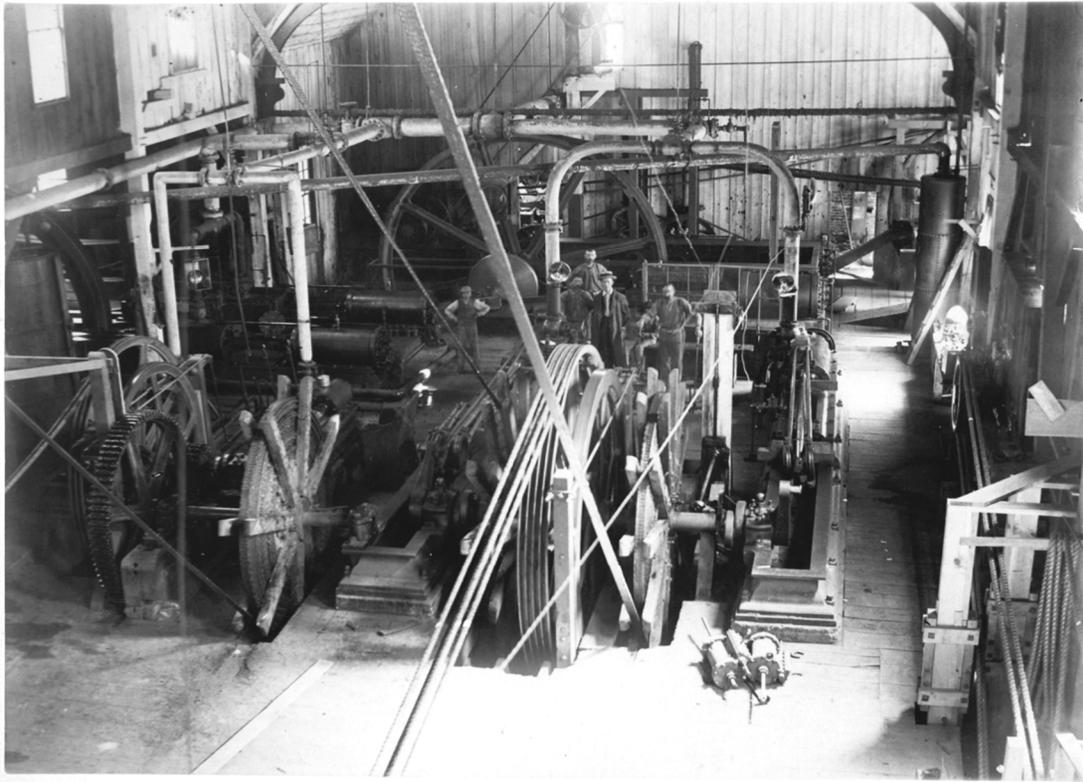
Brunswick Mine to Have the Biggest One in the County.

The bob recently purchased by the Brunswick Mining Company from the Justice mine at Virginia City reached Colfax yesterday, and within the next few days it will be brought over and put in place at the mine. A fine concrete foundation has been prepared for it by Chief Engineer Harry L. Body, no less than three carloads of cement being used in it. The new bob will be the largest in use in any mine in Nevada county, the main piece of timber being 2x3 feet. The work being done at the Brunswick is of a substantial, permanent nature and is amply justified by the good showing made. The Brunswick in a short time will no doubt be one of the best mines in the district.

EXHIBIT 22

Hoist equipment at the Idaho Maryland Headframe

Searls Historical Library -PIC 5-MIN-B 44-1



DORSEY.

EXHIBIT 23

Idaho Maryland Mine

Emperor Gold Photo Collection



EXHIBIT 24

Stamp Mill - Idaho Maryland Quartz Mill

Searls Historical Library -PIC 5-MIN-B 35

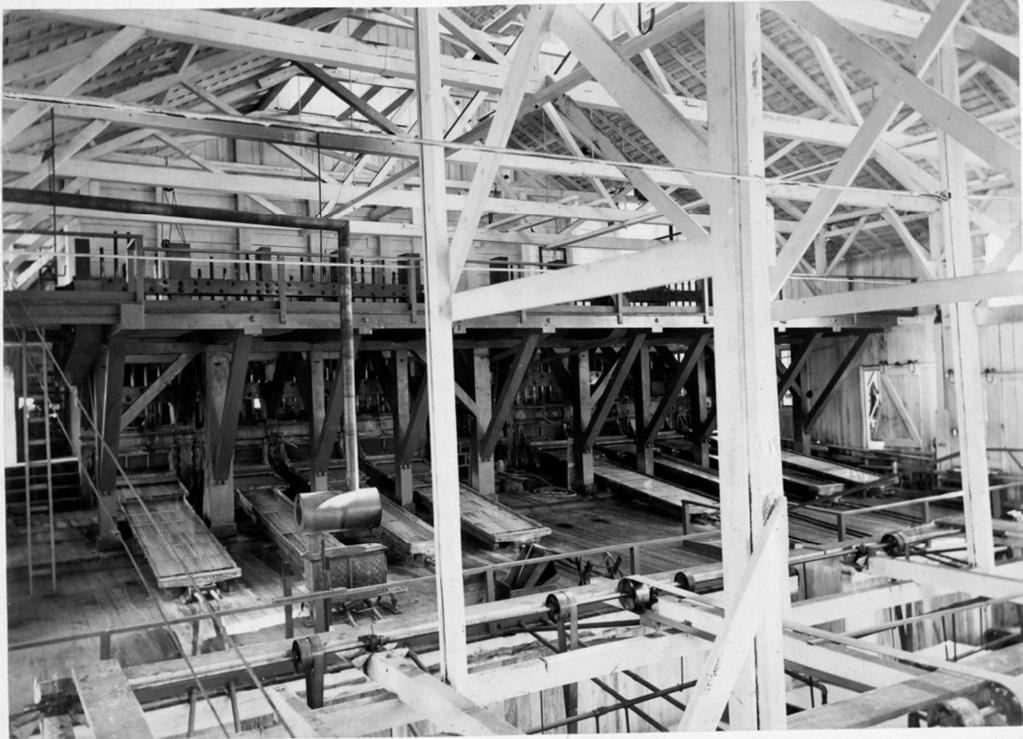


Interior of a Mine Stamp Mill

EXHIBIT 25

Stamp Mill - Idaho Maryland Quartz Mill

Searls Historical Library -PIC 5-MIN-B 43-1



DORSEY.

EXHIBIT 26

1900_03_27 – The Daily Morning Union

At the Brunswick.

Extensive improvements are under way at the Brunswick mine on Union Hill. The Cornish pump had been running to its utmost capacity to keep the mine free of water, and on the 5th ult. a break occurred in the crown wheel, which stopped work. Negotiations were opened with the Justice Mining Company, and the massive Cornish pump used by that corporation at Gold Hill, Nevada, was purchased. The work of installing this pump is now going forward. Excavations have been made and concrete foundations laid for the machinery from eight to sixteen feet deep. The pump will be run by an eight-foot water wheel, but there will be an electric motor that can be resorted to in case of shortage of water. The crown wheel of the Justice pump weighs eleven tons. The rocking beam is to be 33x25 inches; the king post 35x25 inches, and thirteen feet high. The line of plunger pumps in the mine includes a 14-inch at 400 feet; 12-inch at 700 feet and a 12-inch at 1000 feet, which latter is the depth of the shaft. The friction hoist, run by water, has been converted from a single to double, and the old galows frame has been replaced by one forty-eight feet high, set on concrete foundations ten feet deep. The shaft has been enlarged from two to three compartments, and straightened from the 300 level beyond the point where the inclination changes from forty-five degrees to sixty-five degrees (400 level). This latter work was accomplished before the late break and while the mill was kept in operation. The mill contains twenty stamps, run by an eighty H. P. electric dynamo, while another dynamo of the same capacity runs an air compressor. The Brunswick stockholders are mainly New York people. Chris Mallon is superintendent; H. L. Body, chief engineer; C. H. Conlon, foreman. About sixty men are employed.

EXHIBIT 27

SOUTH IDAHO WILL REOPEN

**San Francisco Company Behind
John E. Carter.**

**Company Will Incorporate Shortly—
Expects to Begin Operations in
About Thirty Days—Mine Situated
in Unusually Favorable Location.**

WITHIN a short time the South Idaho mine will be reopened by Captain John E. Carter and a company with sufficient means to develop the property to the uttermost.

Mr. Carter has just returned from San Francisco, where he went to interest capitalists in the mine. He found them ready to listen to a good proposition and experienced no great amount of difficulty in placing nearly 40,000 shares of stock. It may be interesting to know that the name of Mayor E. E. Schmitz is on the list of stockholders.

Now that the money has been procured for thoroughly developing the ground, no time will be lost in starting up. In a short time a meeting will be called for the purpose of electing directors, of whom there will be five local men and two from San Francisco. This done, incorporation is the next step—and then for actual mining.

Mr. Carter expects to have affairs in such shape that within thirty days the necessary machinery will be in place at the mine to commence operations. For the present a good hoist and a pumping plant will be all that will be necessary. Later on, as developments prove the value of the ground, a mill and all the other necessary machinery will be added.

The South Idaho is but a short distance from the famous Idaho-Maryland which made millionaires of the Colemans and snug fortunes for others, while in the same neighborhood is the

old Eureka, another of the old-time wealth producers. A shaft was sunk by the former owners to a depth of 155 feet, and a few short drifts run. A vein of very promising rock, a foot in width, was uncovered, giving a milling test of \$75 to the load. This vein parallels those of the Maryland and the Eureka, and with depth should increase in size.

It has always been maintained by miners of experience that the vein uncovered in the South Idaho furnishes every indication of becoming a first-class property, and development will no doubt confirm the belief.

It seems hardly possible that a mine in the embryo could be more favorably situated, but the question may be asked, why was work suspended on it, that being the case? Its owners, like many others, were men of insufficient means to carry on development work, and ever since it closed, much has been heard of what would come to light "if the South Idaho could be opened up."

Mr. Carter has worked hard to bring the desired end to pass, and developments will be watched with more than usual interest.

PERSONALS AND BREVITIES.

Mrs. Ed. Overmyer and child left yesterday for Buckley, Wash., where Mrs. Overmyer will join her husband.

The usual mid-week dance will be given tonight by the military band on the big platform. A pleasant time is assured to all who attend.

Joseph Weissbein has sold his residence on the corner of School and Neal streets to Jeremiah Angove. His family will move to San Francisco.

J. W. Fawcett is suffering from a bad felon on the little finger of his right hand. He intends to return to Ludlow as soon as the finger heals sufficiently to permit him to return to work.

FRUIT GROWERS DISCOURAGED.

LOS ANGELES, Sept. 2.—The deciduous fruit growers of this locality are much discouraged at the low prices offered for their fruit. The best price offered for choice freestone peaches is \$6 a ton, delivered, and as it costs \$3 a ton to pick and deliver the net price to the grower is very low. The prune growers are similarly unfortunate, only \$8 to \$10 a ton being offered for the best

EXHIBIT 28

STRUCK THE "MILL SHOOT."

Ore Body Opened Up in 1,250 Level of Brunswick Mine.

The "Old mill shoot" of the Brunswick mine, which a force of men has been engaged for the past ten months in drifting for, has, in the opinion of Superintendent C. H. Mallon, at last been encountered. The strike was made late Monday evening, and since that time the water has been pouring out of the ore channel in such quantities that it has been found impossible to make a careful examination of the find. In fact, the pumps on the property are not capable of handling the immense amount of water and until the flow diminishes it will not be possible to determine the size of the ore body.

Superintendent Mallon was seen in regard to the matter last evening. He stated that the strike was made on the 1,250-foot level of the property, after drifting for the past ten months. There is practically no question but what the shoot encountered is the "Old Mill," which gives the company 346 feet of "backs" on a body of ore averaging thirty-six inches in width and going \$17 to the ton. Heretofore no trouble has been experienced in handling the water in the mine, the three twelve-inch plunger pumps and one fourteen-inch plunger pump having proved adequate. These, state Superintendent Mallon, will be capable of handling all the water in the mine as soon as the present flow from the new strike has diminished. Then, in all probability, the force employed, which at present is about twenty, will be increased to about seventy-five men.

EXHIBIT 29

Rich Specimens From the South Idaho Mine

NEVADA CITY, June 4.—When John E. Carter, Superintendent of the South Idaho mine, returned from his duties yesterday he brought with him some ore that, to use a miner's phrase, is good "for sore eyes." It is probably one of the choicest and most valuable pieces of gold quartz that has yet been extracted from the vein. It caused Mr. Carter and his co-Directors to feel jubilant, because he lost no time in informing those who are deeply interested in the property of the richness of the ore which had been taken out. Naturally they felt very happy over what they saw. It demonstrated to them that the South Idaho possesses merits beyond anything which has been said of it; that with but very little development work accomplished since the mine has been reopened it has shown that gold existed in goodly quantities at the very point where the former owners left off.

The rock shown by Mr. Carter is a splendid specimen of quartz. It was literally filled with gold of a rough substantial character. It reminded one of the handsome specimens that were

so common to the famous old Idaho which gave to the world more than \$12,000,000 of precious treasure. The resemblance was so strong that it aroused the comments of all those who saw it and who are cognizant of the character of the old Eureka-Idaho vein.

The vein is well defined, showing that the walls on both sides are smooth and favorable to paying ore. The quartz is strong and gives evidence of continuation and great production.

The ore was extracted from the No. 1 level and at this point the vein seems to improve with every foot driven. Development has been incessantly prosecuted by the management. They hope soon to have the shaft deep enough to begin the exploration of the No. 2 level and when this is accomplished an additional force of men will be needed.

The people of this city are pleased to know that the mine is fulfilling the predictions of those who previously worked it. There is little doubt but that it will soon become, like its famous predecessor, a paying proposition.

There are those who believe that it will be a strong rival of the old Idaho as a rich and continuous producer, and for the sake of those at the head of the Company and the many poor people who have invested their money, we hope that these predictions will be verified.

EXHIBIT 30

Few people know that work is being carried on at the Union Hill mine, Grass Valley. The mine was practically suspended several months ago when the pumps were stopped. But since that time Superintendent Creller has been working it in a quiet manner. Of course this work is done near the surface, as the shaft being full of water prevents any deep mining in the main works. A tunnel has been driven from the ravine which runs close to the mine. After going quite a distance they intersected a vein which runs parallel with the old Union Hill vein which made the mine famous in the early days. Considerable work has been done on it and in many places the results have been very gratifying.

EXHIBIT 31

Idaho-Maryland Mine Again Being Operated.

GRASS VALLEY, Aug. 11.—The Idaho-Maryland mine started up at noon yesterday, the event being signalized by the blowing of whistles and a jollification at the mine. The property was shut down four years ago. It is now being reopened by a Boston company. In years past it produced many millions, making millionaires of Edward and John Coleman of San Francisco. In former days it employed 250 men.

EXHIBIT 32

Make Great Strike in Brunswick Mine

(The Bee's Special Service.)

GRASS VALLEY (Nevada Co.), November 21.—That "gold is where you find it," is a true saying there can be not the slightest doubt. It has been wonderfully exemplified during the past few months at the Brunswick Mine near this city though the facts in the case are only now leaking out. For several years the stockholders of the Brunswick paid monthly assessments until many were ready to throw up the sponge. The price of stock dropped to 5 cents, and even then it was not in demand.

Recently, however, after exploring and developing incessantly, Superintendent Mallon was rewarded for his faith in the property by striking the pay chute which he felt ought to be somewhere in the bowels of the earth. The ledge struck is six feet in width, containing high grade, free-milling ore which goes \$18 per ton, and gives every indication of extending as far into the ground as man can ever dig. From an output of \$6000 the month before, the amount suddenly jumped last month to \$20,000, and bids fair to maintain a very high standard.

The ledge is believed by many to be a continuation of the famous Idaho-Maryland ledge, which made millionaires out of John and Edward Coleman and enriched many others, being undoubtedly the greatest seam of gold-bearing ore ever discovered in the county.

EXHIBIT 33

An Unusual Opportunity for Investors

Idaho-Maryland Development Co.

GRASS VALLEY, NEVADA COUNTY, CALIFORNIA.

The Idaho-Maryland mine lies directly on the Eureka-Idaho-Maryland ore chute. The greatest ever discovered in California, and from which over seventeen million dollars has been taken. The shaft of the Idaho-Maryland mine is down one thousand feet. It is now proposed to sink to the 2100-ft. level. This virgin ground, in the opinion of mining experts, should equal or exceed in production former results. Shares are now offered at fifty cents, subject to advance without notice, par value one dollar. Investors will receive 10 per cent. interest on their money and the return of their entire investment from one-half of the net proceeds of the mines. The company has 217 acres of iron-clad, Government-patented, richest mineral land in the State. Entirely free from liabilities. The mine is the Banner in the Banner County of the Banner gold State.

Address all communications and make out orders and drafts to

Joseph Ball Company

Bonds and Stocks.

Members Los Angeles Stock Exchange.

Ground Floor Homer Laughlin Building.

LOS ANGELES, CAL.

EXHIBIT 34

Union Hill Mine

Probably the most gratifying piece of mining news issued in Grass Valley in months is the announcement here made for the first time of the intersection of the Greek ledge on the 600 level in the Union hill mine. The news is gratifying because it means the development of a producer that will add greatly to the output of Grass Valley and afford employment for a large number of men.

Superintendent Graham had been drifting for the Greek vein for some time with the determination to get it if it was to be had. His persistency and confidence have been rewarded. The chute at the present time varies from 16 to 22 inches in width. The walls are strong and well defined, while the values are the most gratifying feature of all, the ore taken from the vein averaging from \$16 to \$20 a ton.

Concurrent with the news of finding the Greek ledge is the information that the miners have intersected a valuable chute of ore on the Union hill vein. This chute was also encountered on the 600 level, and while the ore so far extracted will average only \$7 a ton, when the size of the vein is

considered—it is from five to seven feet in width—it will rank in importance with the intersection of the Greek chute.

About four years ago the Union Hill mine came into the possession of Loring B. Doe, a prominent capitalist of San Francisco.—Grass Valley Union.

Fine Ore in Olympus

EXHIBIT 35

LILY GOLD MINING COMPANY IS FORMED

Has Acquired the Mitchell
Ranch and Will Develop
Most Promising Ledges—Di-
rectors and Officers Elected.

The Lily Gold Mining Company, which was recently organized under the laws of Arizona, with its principal place of business in this city, held a meeting last night, when the directors and officers were elected. The company is organized for the purpose of developing the property it has acquired on the C. C. Mitchell ranch, just north of the Idaho-Maryland mine and only a short distance below the Brunswick. A tract comprising 160 acres has been purchased by the company and as it is in a distinctly mineral belt and in the midst of properties that have great records, it is considered a great buy. To the north is also the Merrimac and Banner mines, while the Golden Gate, which is producing good ore, is but a short distance away.

The company decided last night to go right ahead with the work of developing the property and a shaft will be sunk. There are three gold-bearing north and south veins on the land, besides one east and west ledge. They range in size from stringers to three feet, and every one of them shows free gold.

Ore that has been taken out has milled \$15 per ton and it assays all the way from \$1.60 to \$20 per ton. Float quartz and gravel from an overflow shows that paying ledges exist, as considerable gold has been found both in the float and the gravel.

O. D. Woodman, who arrived several months ago after a tour of the western mining states, promoted the new company and is entitled to credit for the company of substantial citizens he has interested in the proposition. The company is incorporated for 1,000,000 shares at a par value of \$1 each, and of this amount a large block of stock has already been subscribed.

The officers and directors of the Lily company are as follows: C. H. Mallen, president; C. J. Brand, vice-president; John C. Nilon, secretary-treasurer; Fred Searls, attorney; Gustave Fischer, John Fay, C. C. Mitchell and O. D. Woodman, directors. The Citizens Bank was chosen as depository for the company, while the office is in the Union hotel building.

Mr. Mallen is superintendent of the Brunswick mine and one of the best mining operators in the state. C. J. Brand is one of the stockholders in the Delhi mine, while the other officers and directors are all well known substantial citizens, which means that the property will be handled in a systematic manner, economically and honestly.

There are many miners who believe that the main vein is a continuation of the Idaho-Maryland and that it has made a turn in the serpentine, while it is conceded one of the others is the same as that in the Merrimac. With the careful management that is promised there should be bright chances for a good paying property.

EXHIBIT 36

IDAHO ORE KEEPS TEN STAMPS GOING

Fine Milling Ore From the
Chute Struck in the
500 Level.

The high-grade milling ore recently struck in the 500 level of the Idaho-Maryland mine, 1,500 feet east of the shaft, continues and every day sees more of it blasted out. The chute is now 100 feet long and the ledge continues to widen out and maintain its quality.

The indications are that it will, with depth, again make the once-famous old Idaho the bonanza which attracted the attention of the world to this county. The ledge is now eighteen inches wide. Ten stamps are kept running continuously on the ore from the 500 level.

Manager Wilkins expects to leave in a few days for the East to confer with the men financiering the proposition. He announces that he will continue to operate the mine himself, even if all other support were withdrawn.

EXHIBIT 37

SENSATIONAL STRIKE.

**Fabulously Rich Ore Is Taken from
Idaho-Maryland Mine, According
to Assay.**

[BY DIRECT WIRE TO THE TIMES.]

GRASS VALLEY, May 8.—[Exclusive Dispatch.] At the end of the 1500-foot drift on the 500-foot level at the Idaho-Maryland mine, a sensational strike was made today, samples of ore being taken assaying \$200,000 to the ton.

A fifty-pound chunk of ore exhibited at the Citizens' Bank is yellow with free gold.

The Idaho-Maryland is operated on a fifteen-year lease and bond by the Boston company, Bray Wilkins, manager. It is owned by S. P. Dorsey of Grass Valley.

The new strike is believed to be a continuation of the Eureka ledge, from which years ago Eureka took out \$20,000,000, and which was followed through the Idaho property by the owners, Edward and John Coleman of San Francisco, and paid \$11,000,000 in dividends. The present company has had the lease and bond for two years, and has spent \$40,000 in development work.

EXHIBIT 38

BRUNSWICK MINE WILL SINK BIG NEW SHAFT

Company Decides to Resume Operations and Will Waste No Time.

NEW PRESIDENT HAS BEEN PUT IN OFFICE

Chris Mallen Will Resume His Position; McDavitt as Foreman.

Official announcement is made that the good old Brunswick mine will resume operations, that a new shaft will be sunk and that the directors have elected a new president, J. W. Pew, who represents the large Eastern syndicate controlling the capital stock. Operations will commence ere long, as the progressive element represented by a hustling board is anxious to see the big undertaking carried out. On good authority it is stated that Superintendent Chris Mallen resumes his position of superintendent and that Frank McDavitt will be promoted to the office of foreman.

This is one of the very brightest and best pieces of news heard here in months, and though it was confidentially expected that the Brunswick would eventually be reopened, being too valuable a property to lie idle, even the most sanguine friend of the property hardly believed the favorable tide would set in so soon. Last year the mine closed down, the pumps were pulled and every indication pointed to a long stage of idleness. Since then the vast underground workings have filled with water, which is flowing out of the shaft at present.

At the time it was generally understood that the shutdown was the result of friction between heavy stockholders, one faction favoring the new shaft idea and the other being disinclined to that belief.

Monday the all-important meeting took place in San Francisco, and every indication points to the fact that a new board of directors was elected, all progressive and aggressive and thoroughly in favor of the proposition advanced for a long time by Superintendent Mallen—that a new shaft must be sunk to make the property pay as it should. He had advocated this for several years, presenting a strong array of facts gained from years of experience at the head of the mine, and he will now have the satisfaction of seeing his ideas carried out.

The new shaft will be perpendicular, in all probability, located a considerable distance east of the present surface works, and at a depth of about 1,200 feet will cut the old underground workings. It will save a vast amount of time and extra labor in handling ore, greatly reduce the cost of mining and milling and, of equal significance, will be in virgin ground with a very large acreage still farther to the east.

The Brunswick is considered one of the richest and best mines in the county, has been a great producer and when operations ceased was in high grade ore, but the heavy expense attached to handling ore two or three times proved too great a handicap. The mine is equipped with one of the most complete surface plants in the state.

CITY HAPPENINGS CRISP, NEWSY.

Additional Grass Valley news will be found on page three.

Quartz Parlor of Native Sons has contributed the sum of \$5 to the firemen's ball fund.

The world-famous North Sea canned crab, the largest and best ever put up, is sold by Watt & Co., whose new advertisement today speaks of it particularly.

"Our Taffies are best," announces Temby in a new advertisement this morning. It is full of good reading matter about taffy candy, especially the good kind made at Temby's.

Blair's \$19 tailor-made suits are suits are wonders for the price. They're perfect fitting and the goods are all new. Read his new advertisement today calling attention to them.

Try some of that choice home-made candy at the Women's Art store. It's unusually tempting. The new advertisement this morning also calls attention to valentines and valentine post-cards.

The very latest styles in men's suits and trousers and overcoats are made to order at very reasonable prices at Lobecker's place on Neal street. His interesting new advertisement appears this morning.

Owing to the embankments between Sacramento and Davis being washed out again, trains are now running by way of Stockton, with the result that all traffic is delayed somewhat and local mails are not arriving on time.

Recovering from a very severe cold, Harold Biggs writes to his parents from the University of California that he has been in the college infirmary for two weeks, but is now practically well and will be able to be out again in a day or two.

Why be bothered with wet, green wood and slow, uncertain fires in the kitchen when you can have gas put in at very little cost and have a quick, even fire in a second. Read what the Pacific Gas and Electric Company has to say about this today.

Giving promise of becoming an able performer in the ring, "Young Clifford," or Fred Trenberth, which is his real name, brother of Jack Trenberth, is out with a challenge at Marysville. He formerly resided here and made one good showing in this city.

A recent arrival in this city named Smith was yesterday taken to the contagious ward at the Jones Memorial Hospital, suffering from a slight attack of diphtheria. Anti-Toxin was administered. The patient will be beyond the danger point in a few days.

The Chinn-Beretta expert optician will be here today and tomorrow, with headquarters at Loutzenheiser's drug store. He can fit your eyes perfectly, correct vision, and enable you to overcome those headaches. Read the new advertisement this morning.

NO DATE SET FOR TRIAL FRED KLINE

Though the Fred H. Kline case was

EXHIBIT 39

NEVADA COUNTY.

About August 9 the work of sinking the 1200-foot vertical three-compartment shaft at the Brunswick mine, Grass Valley, will be under way. The pumps will be operated at the old shaft to keep the property clear of water while the new working avenue is going down and a compressor will be moved from the old workings to the new shaft to expedite work. The new shaft will be sunk at a point several hundred feet east of the old working and will facilitate the working of the mine at lowest possible costs. Many Southern Californians are numbered among the stockholders.

EXHIBIT 40

IDAHO WINZE IS THROUGH TO 600

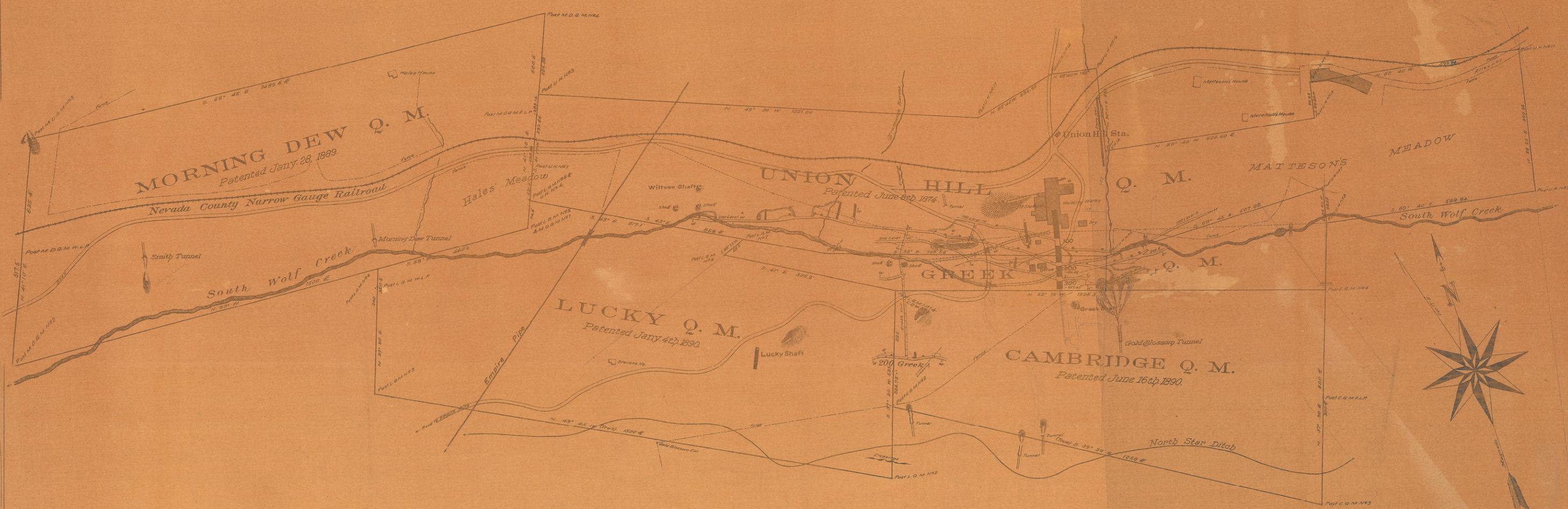
All the Distance on Big Ledge
and Indications Are
Now Very Bright.

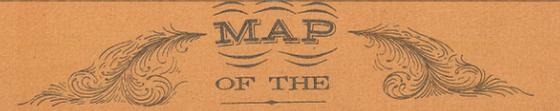
The good news comes from the Idaho-Maryland mine that the winze started on the new 500 east drift has been put through to the 600 level, and on the same big ore body encountered in the level above. There is every reason to believe that this new or footwall ledge will continue to an indefinite distance below the ground.

There is nothing to disprove this, and mining men who have had many years' experience here and who are intimately acquainted with the old Idaho are firmly convinced that this will prove to be the fact. In the Idaho, it is pointed out, little was ever done to demonstrate the footwall ledge, though it was encountered in a "horse of ground" of great richness in the 600 level.

Men in a position to know are unanimous in their belief that this ore body will continue and maintain its values as far as man can go and remain in the company's boundaries, as the vein pitches steeply. The winze will be continued.

EXHIBIT 41




MAP
 OF THE
UNION HILL MINE
 Grass Valley, Cal.
 Scale 100 ft. to one inch.
 Edw. C. Uren, C.E.


IM-11029

36/16

Nevada City, California April 24th 1890

EXHIBIT 42

REPAIRING THE ROAD.

Good work is being performed in repairing the Union Hill road, under direction of Supervisor Miller. He is having all the soft parts of the highway covered with broken rock. He reports the county bridge across Wolf creek almost completed. J. B. Stennett has been doing the work there under supervision of County Surveyor Miller.

EXHIBIT 43

LILY MINE WILL BE DEVELOPED

**A. W. Hoge Secures Three-
Year Bond on Promis-
ing Property.**

**SHAFT TO SINK TO
DEPTH OF 300 FEET**

**Mine Is Located on Mitchell
Ranch and Local Peo-
ple Own It.**

A most important mining deal was consummated in this city Thursday and the final papers signed yesterday forenoon and placed on record. By the terms of the deal the Lily Gold Mining Company have bonded their large quartz holdings on the C. C. Mitchell ranch to Arthur H. Hoge of Cleveland, Ohio. Mr. Hoge is president of the Montana mine in Willow Valley and has been stopping here for several months, making his headquarters at the Union hotel.

The Lily company held their annual meeting Thursday afternoon when the following officers and board of directors were elected: C. H. Mallon, president; John C. Nilon, secretary-treasurer; John Fay of Truckee, John Ghidotti, Herman W. Brand, C. C. Mitchell and Gustav Fischer of San Jose.

The company received several propositions to bond the property and after carefully going over them concluded to accept the offer of Mr. Hoge. He is connected with the Independent Telephone Company in the East and has an abiding faith in Nevada county as affording great opportunities for rich gold mines.

Under the terms of the bond Mr. Hoge has three years in which to pay for the property, the sum for its purchase being fixed at \$35,000. No cash payment was required, the owners being entirely willing to have the mine prove itself. The agreement states that Mr. Hoge is to expend the sum of 25,000 in developing the property during the life of the bond.

It is believed that the sum mentioned will be sufficient to demonstrate that the Lily is a mine that will become a producer. The claims consist of 160 acres of patented mineral land, 80 acres of which are absolutely the property of the company, while they have the mineral rights to the other 80 acres.

The Lily is situated in a most aristocratic locality, being surrounded on all sides by mines that have proved themselves in the past. It is not far from the famous old Idaho-Maryland, which has a production of over \$20,000,000 to its credit. The Brunswick, Golden Gate, Merrimac and others of note are in close proximity to the Lily. While it is believed that great mineral wealth lies in the mine, on the surface is an old apple orchard and a fine farm, the property being best known as the old Pat Hall ranch.

A shaft has been sunk about forty feet on the ledge, which is from two to three feet in width. Handsome ribbon quartz that prospects well, has been taken out. It is the belief of the company that by sinking to a depth of about 300 feet a profitable pay shoot will be opened up, it being the history of all quartz mines in that vicinity that their real value starts at about that depth and extends to a depth yet undetermined, as the old Idaho-Maryland has been worked to a depth over 2,000 feet into the bowels of the earth.

It is Mr. Hoge's intention to go East and arrange for working the Lily in a systematic manner. The shaft will be continued down and old miners consider that if the property is developed in the right way it will be listed among the producers of the county.

EXHIBIT 44

NEW POWER LINE TO THE BRUNSWICK MINE

(The Bee's Special Service.)

GRASS VALLEY (Nevada Co.), April 16.—A new electric power line is being built to the Brunswick Mine near this city. The old line, one of the first to be introduced in this section, has outlived its usefulness, and under the direction of John Calvert a crew is at work putting in new poles where needed, setting up new crossarms and pins and stringing new and heavier wires to the new Brunswick shaft, at which splendid headway is being made.

The mine will be supplied by two lines. Should one break down or fail, the other will supply all the power required.

The new shaft will be sunk a distance of at least 1,250 feet vertical to cut the rich ore chute operated in the old incline with its long drifts. The old way made mining too expensive, the ore having to be handled several times before reaching the mill.



EXHIBIT 45

BRUNSWICK MINE SUSPENDS WORK

**WATER FORCES MEN FROM WORK-
INGS ON PROPERTY.**

(The Bee's Special Service.)

GRASS VALLEY (Nevada Co.), September 14.—The Brunswick Mine has been compelled to suspend operations at its new workings on account of a sudden inflow of water which the pumps are unable to handle. The new shaft has been sunk to a depth of 450 feet and is on a level with the bottom of the old workings, and it is thought the water is coming from the old shaft. The first indication of this was a week ago when a flow of water was encountered and pumps were installed which handled it.

Monday a greater flow was encountered and the management found it necessary to stop work and lay off the men. The company will endeavor to check the flow by pumping out the old works, but this plan will depend upon what arrangements can be made with the power company, for while there is plenty of water in the mine, there is a scarcity on the surface for power purposes. There is a possibility that the new shaft will be allowed to fill up until such time as the power company can furnish sufficient power to operate the larger pumps.

EXHIBIT 46

TWENTY-STAMP MILL FOR UNION HILL

Many Improvements Planned By New Owners of Property.

L. B. Doe, principal owner of the Union Hill mine, has completed arrangements with W. H. Martin, president of the Nevada City Miners' Foundry, for the erection of a new twenty-stamp mill at the Union Hill property, which is located just east of this city. Mr. Doe recently arrived from San Francisco to make arrangements for the improvements, and left yesterday morning for San Francisco, having consummated the deal.

At the present time the Union Hill mine is full of water, owing to the heavy storms. Mr. Doe stated before leaving for the metropolis that the mine would not be unwatered for the present, but a crew of men are at work making arrangements for the installing of the new mill. The present mill on the property is composed of only ten stamps. These will be taken out and the mortars replaced by four new ones. The building in which the ten stamps stood is capable of accommodating the new mill of twenty stamps.

The proposed mill will rest on concrete foundations, and it is expected to have it completed in the early spring. The shaft on the property, which is now down to a depth of 600 feet, will be sunk to an indefinite depth and crosscuts will be driven at every hundred feet to tap the veins. There are many veins on the Union Hill property, and all have shown up well.

Mr. Doe believes that the Union Hill mine is destined to be a good producer and he has attested his faith in the property by the large amount of money which he has invested. Tungsten of high grade has been discovered at the Union Hill, which speaks well for the mine.

Many other improvements have been planned by the owners of the mine, and when completed it will rank as one of the best equipped properties in this section.

EXHIBIT 47

Union Hill Mine

GRASS VALLEY, April 15.—The pumps at the Union Hill mine have started working and the mine will soon be in operation again after an idleness of three months. The shutdown was necessary on account of the clogging of the South Yuba ditches during the winter, the ditches furnishing power to the mine. It will require several weeks to thoroughly unwater the mine. In addition to the regular work of extracting ore, extensive development work is planned at the Union Hill. The shaft, now down 600 feet, will be sunk several hundred feet deeper and many crosscuts driven. Work on a new 20 stamp mill is under way.

EXHIBIT 48

BRUNSWICK MINE TO BE UNWATERED

Pumping Out of Old Shaft
and Works Started
Yesterday.

After lying idle and buried in the water in the shaft for the past two years the pumps in the old shaft of the Brunswick mine were started yesterday and the work of unwatering the shaft will be kept up until it is entirely free of water. When the old shaft was discarded and allowed to fill with water two years ago the Cornish plunger pumps were not taken up, or the electric pumps either, but the first two plungers were disconnected from the other two. Yesterday when the power was turned on to the pumps they worked together to perfection and the water was lowered thirty feet during the day. It is estimated that 200 gallons per minute is now being raised. When the shaft has been unwatered down to the 700-foot level the electric pumps stationed there will be started up if necessary. At the 1000 and 1200 levels other electric pumps are stationed, which can be used again when the shaft is unwatered.

The unwatering of the old shaft will mean the draining of the new shaft, which is now full of water. The new shaft has been driven to a distance of 450 feet. When unwatered active work of sinking will be again taken up. The large new Dow pump which was recently ordered will soon be installed and then the Brunswick will be able to handle all the water they will have to contend with.

It is estimated that it will require nearly two months to free the old shaft and drifts of water. If the pumps now in the mine prove to be unequal to the task the company has an emergency electric pump which can be called into use.

EXHIBIT 49

H. L. BODY INSTALLS PUMP AT BRUNSWICK

Superintendent Mallen Tells of
Installing Huge Piece of
Machinery.

Superintendent C. H. Mallen of the Brunswick mine, in a communication to The Union, writes that the publicity given the installation of the huge pump at the Brunswick mine was erroneous, and in writing of the big piece of machinery that has been installed at the mine he states:

"The pump is a six plunger constructed by George E. Dow Pumping Engine Company of San Francisco and weighs 64,000 pounds. It is run by two general electric motors 100 horsepower each, and is capable of raising from 300 to 1000 gallons of water 1200 vertical feet per minute. At present the pump is located at the 1250 level of the mine and is discharging 800 gallons per minute at drain tunnel 900 feet vertical. When the new shaft reaches a depth of 1200 feet vertical the pump will be lowered to that level. The plant is complete in every detail and was installed by H. L. Body of Grass Valley, who is justly proud of the splendid piece of work. Geo. Scarft, electric engineer for the Pacific Gas and Electric Company attended to securing the very best up-to-date electric outfit that could be bought, so we are not afraid to invite our mining friends to inspect the plant. Mr. Dow, who came up for his company to see the pump start up, says he never saw a better foundation or a more up-to-date plant."

EXHIBIT 50

1912_03_15 - The Salt Lake Mining Review

THE UNION HILL MINE

TRANSCRIPT, NEVADA CITY, CALA.

So quietly and unostentatiously has the work been done that few people, including those who live in the direct vicinity, have any conception of the magnitude of the developments that have been accomplished at the Union Hill mine. A prominent mining engineer who recently visited the property, spending some time there, stated that there is not a similar area that contains as many ore bodies and as much mineral as that of the Union Hill.

Lucky Vein Intersected.

It has just come to light that the 600-foot cross-cut, driven to intersect the old Lucky vein on the 600-foot level of the Union Hill, was completed a few days ago. Nothing was said at the time of the achievement by Superintendent Graham for the reason that he wanted to demonstrate the value of the intersection before making it public. The Lucky vein had been intersected at the 300-foot level some months previous, the intersection being at a point of 400 feet on the Lucky vein, the collar of the Lucky shaft being 100 feet higher than that of the Union Hill.

Value of the Diamond Drill.

About the time of the intersection of the Lucky vein at the 300 level of the Union Hill, the company arranged to have a diamond drill installed for prospecting purposes. The diamond drill was used to good effect. Its efficiency as an aid to intelligent and scientific mining was demonstrated when it was discovered that the Lucky vein continued east of the old works at the point of intersection for a distance of more than 100 feet. This was the motive for the starting of the cross-cut at the 600-level, which has just been completed with the intersection of the Lucky vein. The diamond drill proved that not only did the vein continue east for an indefinite distance, but that it also carried values that were more than satisfactory to the management.

Results are Gratifying.

Considerable work has been done on the vein under the direction of the superintendent and the result is exceedingly gratifying. It has been proved that in each direction the values continue in the most satisfactory manner. The company has 700 feet of backs in virgin ground and the distance is fully 1000 feet from the point of intersection to the old Lucky works. The vein averages a width of four feet, and some of the ore taken out shows gold freely. There is also a liberal quantity of those minerals characteristic of the veins and the district in which they were located. Drifting and up-raising on the vein will be continued until it has been thoroughly opened up for stopping purposes.

New Mine Is Developed.

The intersection of the Lucky vein at a point 1000 feet east of the old workings and 700 feet from the surface, practically makes a new mine out of the Union Hill. With such backs and a vein averaging a width of four feet, according to the best computations, it does not take much imagination to perceive that this old property, which was paying dividends fifty years ago when the quartz mining was in an embryotic condition in this state, has a roseate future. There is now enough ore in sight to keep the present 20-stamp mill going for several years.

Other Veins Intersected.

But the intersection of the Lucky vein is not the only gratifying feature in connection with the development work at the Union Hill. Other veins of the system have been encountered, proving that the property is one of the biggest in California today. The Greek vein, parallel with the Lucky, and one of the most productive in the early history of quartz mining in Grass Valley, was intersected by the cross-cut driven on the 600-level to tap the Lucky. The Greek vein is susceptible to extensive development and is one of the valuable assets of the company.

Another vein that has been intersected through the aid of the diamond drill is the Georgia. This vein lies in the footwall of the Union Hill shaft and had been worked in the early days to a shallow depth only. Some time ago the diamond drill was put to work and a distance of 150 feet from the shaft the Georgia was discovered. It is five feet in width and the ore taken out by means of the drill assayed nearly \$8 to the ton. A cross-cut to open it up will soon be started.

Increased Milling Capacity.

One of the possibilities of the near future at the Union Hill is an increased milling capacity. At the present time there is a 20-stamp mill, which is one of the best in the state of its size. There is ore enough already blocked out to keep this mill busy for a long time. The major portion of the present supply comes from the 300 level. Now that the Lucky, Greek and Georgia veins have been intersected at the 600 level, and their development for stopping purposes is only a matter of a short while, it is evident that the crying need is for more stamps. It is within the probabilities that twenty, and possibly forty, stamps will be added to the mill, making it one of the biggest and most effective in the county. It is the ambition of the company to have eventually 100 stamps grinding away on the ore, and it is believed enough ore has

already been intersected to keep a mill going several years.

Highly Pleased at Results.

President Doe, of the Union Hill company, is highly pleased with the result of the extensive development work that has been carried on since he assumed control of the property a few years ago. He is delighted with the work of the diamond, claiming that in the course of mine development such a device pays for itself many times over in the mistakes it helps the management to avoid, especially when such work has to be executed through the means of long and costly cross-cuts.

Tungsten Is Discovered.

Another significant thing in connection with the development at the Union Hill is the presence of liberal quantities, in the Lucky vein, of tungsten ore. This is a rare and valuable metal that is not often found associated with gold ore. Mr. Doe was told by experts that if tungsten to the quantity of 2 per cent was found, the discovery would be one of value. An analysis made by one of the best chemists in San Francisco proved that the vein carries tungsten to the value of 10 per cent. In this connection it is interesting to know that the first tungsten ever found in California was discovered in the Union Hill in the 60's by the late State Mineralogist Henry Hanks.

May Soon Start Sinking.

People of Grass Valley and the whole of Nevada county will be pleased to learn of the valuable developments at the Union Hill. They presage the opening up of one of the biggest mines in California, and will be the means of adding greatly to the working force of the district and also to its output.

It is announced that sinking of the shaft may soon be resumed and that it will be continued to an indefinite depth as an indication of the elaborate plans the company has in view.

REPORT OF BINGHAM MINES.

A Boston dispatch says: The Bingham Mines company has issued its report for the year ended Dec. 31, 1911, included in which is the Eagle & Blue Bell report. Bingham Mines shows net revenue from operation of \$172,099. After prospecting and development cost, general expenses, interest, etc., there was a net operating balance of \$109,248. The bonded debt has been reduced to \$536,000.

In 1912 there will be \$69,000 available for canceling bonds. The output of the Dalton & Lark was 24,066 tons, against 12,536 tons the year before. The output of the Commercial mine for nine months was 22,017 tons. Eagle & Blue Bell produced 5,831 dry tons. Its net earnings were \$21,242.