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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HEFFERN MINE

ALTERNATE NAMES:

COCHISE COUNTY MILS NUMBER: 771

LOCATION: TOWNSHIP 21 S RANGE 28 E SECTION 17 QUARTER S2 LATITUDE: N 31DEG 36MIN 05SEC LONGITUDE: W 109DEG 32MIN 05SEC

TOPO MAP NAME: LESLIE CANYON - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD LODE

BIBLIOGRAPHY:

THE COPPER HANDBOOK, 1911, VOL X, P 933 ADMMR HEFFERN MINE FILE

HEFFERN MINE COCHISE COUNTY

MG WR 5/27/88: Visited the Heffern mine (file) Cochise County. It is located in the SW_2^1 , Sec 17, T21S R28E. The mine is on the contact between an andesite and limestone. Near the contact, the limestone is marbelized. Coarsely crystalline calcite was observed. Locally, the andesite is brecciated. The main(?) shaft is +100 feet deep and is probably caved. Nearby, to the north, is another shaft that is caved at about 30 feet. To the south of the main shaft are the ruins of a mill foundation. Near the north shaft is a drill hole (rotary?) marked "Santa Fe 2."

Heffern Co-operative Gold Mining and Milling Co.

Tried to visit Heffern mine but road blocked off; could see dump and site of workings. GWI WR 3/19/75

HEFFERN CO-OPERATIVE CONSOLIDATED ***** GOLD MINING & MILLING CO. (Inc. May 20,1913)

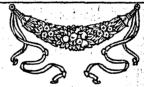
COCHISE COUNTY SWISSHELM DIST. 6-13-16

HEFFERN CO-OPERATIVE GOLD MINING & MILLING CO. (file)

IRON, MANGANESE, GOLD

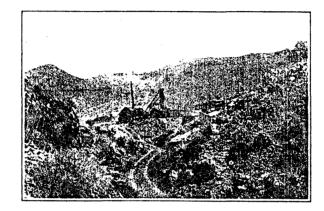
THE
HEFFERN
CO-OPERATIVE
GOLD MINING
AND
MILLING
COMPANY

PROSPECTUS



HEAD OFFICE BISBEE, ARIZONA

BISBEE PRINTING COMPANY





Shaft and Shaft House No. 1 Looking Northeast along the Main Range of the Swisshelm Mountains. Described on page four.

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Co.	Co. De Dt of Mines
Dept.	Phone #
Fax #	Fax #

The Heffern Co-Operative Consolidated Gold Mining and Milling Company (Incorporated)

Mine and Works Leslie Canyon Swisshelm Mining District

Swisshelm Mountains, Cochise County, Arizona

Head Office Bisbee, Arizona

OFFICERS

Albert Heffern - President
Albert Dahlberg - Vice-president
S. P. Buster - Sec.-Treas.

DIRECTORS

Albert Heffern

Albert Dahlberg

Chas. Peterson



ALBERT HEFFERN

Geologist and Mining Engineer, President and Managing Director of this Company.

assays ranging from 50c to \$50.00 in gold, silver and copper. We have passed through 30 feet of ore in the north drift on the three hundred foot level assaying \$1.00 to \$100.00 in free milling gold. We also have a proven ore body, this being proven with diamond drill, to be 22 feet in thickness assaying from \$2.50 to \$226.00 per ton in gold and silver.

This ore body laying at an angle of 45 degrees at the contact which is lime and porphyry, this ore can be mined and milled for \$1.50 per ton as this class of ore is milled at Home Stake Mill in Lead City, S. D. for \$1.25 per ton at Treadwell mill, Douglas Island, Alaska, at the same figures.

THE DAM SITE

(Plate No. 4)

Represents Damsite owned and controlled by the company when constructed will inclose a lake comprising of about 50 square miles having a drainage of over 1000 square miles of water shed and the surface affording one of the finest pleasure resorts in the entire southwest for boating and bathing, and the weight for generating of power for mining, pumping and other purposes, after being used for this it can be conveyed a distance of 2 miles and then be turned into irrigating ditches and irrigate thousands of acres of the best farming land in Sulphur Spring Valley, and by this making three uses of the water.

(First) Surface for Pleasure.(Second) Weight for Power.(Third) For Irrigating Purposes.

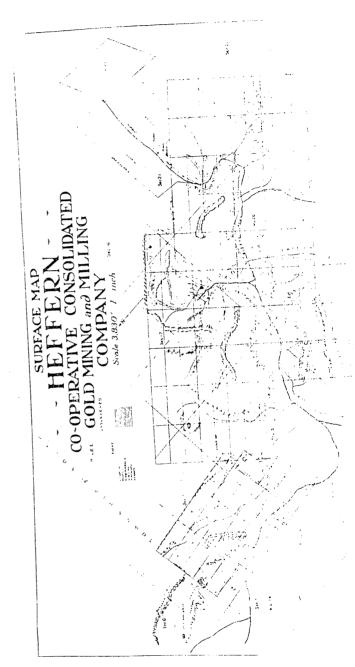
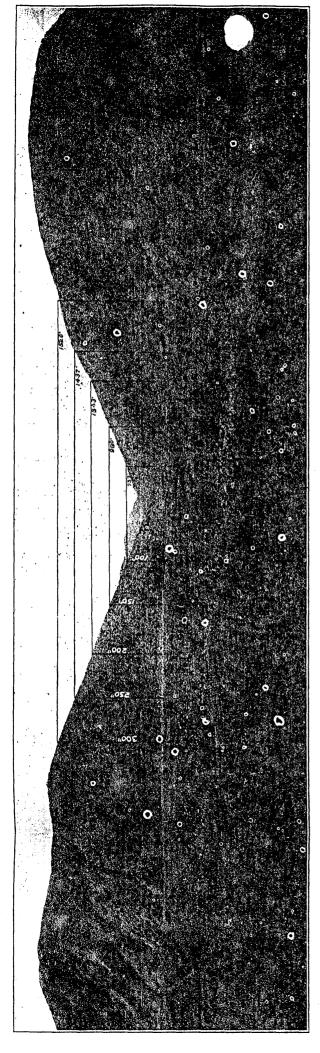


Plate No. 3

Represents 54 claims owned by the Heffern Co-Operative Consolidated Gold Mining and Milling Company, covering 1020 acres and located in Leslie Canyon in the Swisshelm Mining District, in the Swisshelm Mountains, Cochise County, Arizona.



(A CO-OPERATIVE COMPANY)

This company is a distinct departure from the stupified companies of the present era our president Mr. Heffern having so arranged the articles of incorporation and by laws, that all the power is in the hands of the stockholders, as there is no promoter stock and the unsold treasury stock is at the disposal of the stockholders after the company goes on paying basis, as the board of directors cannot incur an indebtedness of over \$10,000 without the permission of 51 per cent of the stockholders, your attention is called to the fact that no property bond lease or option can be sold without the consent of the stockholders, no man can be a director who is not a practical miner. This leaves the mining business to the miners, many a good mine has been ruined for the want of miners at the head of business. The officers of the company together with the directors are elected by the stockholders, and to whom they are responsible as any officer or director of the company can be recalled by just cause by fiftyone per cent of the stockholders and it is so arranged by the Incorporation, that the stockholders, may amend and adopt all by laws and not by the Board of Directors, as other companies have in the past, and at the present time are still doing and by this law the control is left in the hands of the stockholders.

(WAGON AND AUTO ROADS) are the best that the country can afford from the mines to Douglas, Bisbee, Tombstone, Pearce, Courtland and the Chiricahua Mountains which gives easy access to the mines, for inspection which we solicit from everybody whether interested or not.

(RAILROADS)

the nearest station is McNeal on the Douglas and Courtland branch of the El Paso and South Western Railroad, 8 miles from the mine.

(TIMBER)

used in the mines comes from the Chiricahua Mountains 12 miles distant from the property, wood for fuel can be had within 3 miles of the mine. The Swisshelm Mountains are a spur of the Chiricahua Mountains

(MANAGEMENT)

ALBERT HEFFERN

PRESIDENT AND MANAGING DIRECTOR
GEOLOGIST AND MINING ENGINEER
ALBERT DAHLBERG, VICE PRESIDENT

S. P. BUSTER,
SECRETARY AND TREASURER

DIRECTORS: ALBERT DAHLBERG CHAS. PETERSON

Our management is under Mr. Heffern who is a man of thirty years experience in the United States, Canada and Mexico, he is a thorough Geologist and Mining Engineer and is an economist this can be proven by what he has accomplished at the mine, for the amount of money expended and employes only expert miners and mechanics which means economy. His experience has not been confined to the art of copper mining alone but has experted minerals, from clay to gold. He is not ateroist but dwells in the realms of facts only and knowing these facts we feel sure of success, since we

have 30 feet of ore that we can mill with a profit. Knowing we have an ore body which has been proven with diamond drill less than 100 feet ahead in the north drift on the three hundred level and this drift is bound to cut this ore body with in the next 100 feet where 22 feet of core drawn by drill, ranging from \$2.50 to \$226.00 in gold and silver per ton.

REMARKS

We sum up the following facts for your consideration, there are three things necessary in every business, experience, opportunity and capital.

First

We in our management and directors.

Second

Opportunity which we are now representing.

Third

The capital which you have. By combining the three we make a success.

Fourth

We have no mortgages, bonds or preferred stock as we have but one kind of stock and that is treasury stock and only the holders of the same can vote.

Fifth

Our machinery is already installed and paid for and our shaft is down 490 ft. with two stations, one at the three and one at the four hundred level and over 3000 feet of drifting completed.

Sixth

All treasury stock after the mine goes on paying bases is at the disposal of the stockholders or to be divided among the stockholders in accordance with the amount each holds.

Seventh

None but expierienced or practical miners can sit on the Board of Directors.

Eighth

We do not have to hunt ore as we have this already.

Ninth

There is no promotor stock to control this company.

Tenth

Bare in mind that all great mines in the history were once prospect holes five or ten feet deep but with further development they became mines and a successful mine is a wholesale of wealth to the stockholders.

Eleventh

We will call your attention to the fact that this ore is free milling needing only crushing and amalgamate on copper plates with murcury to seperate the gold, and a free milling ore of only \$5.00 in value is considered by mining men high grade ore. Ore carrying values of such a grade on the surface you will reason what values they will carry beneath, remember this ore can be milled at a very low cost. At the Treadwell mines, Douglas Island, Alaska, the average cost of mining and milling is about \$1.25 per ton and at the Homestake mine, Lead City, S. D. is about the same.

(We call your attention to the following facts)

That we have the foundation for the following industries in connection with this project.

Marble quarries of highest grade.

Quick lime quarries for quick lime.

Large deposits of hematite iron or red okor suitable for the manufacture of red paint.

Quarries of Portland lime stone for the manufacture of Portland cement.

Quarries of lithograph stone of the best quality.

Quarries of layers lime stone suitable for construction of all kinds of building material.

Beds or deposits of Fullers earth.

And large bodies of Terocotta clay suitable for the manufacture of Terrocotta suer pipe and pressed bricks.

This property contains over 1020 acres within its boundaries.

For further particulars address

The Heffern Co-Operative Consolidated Gold Mining & Milling Co.

Bisbee, Arizona

There is now about 300 out of 450 of our stockholders of the Bisbee & Warren Mining District, this is one of the largest mining districts in the Southwest. All of our miners working at the mine take thier pay in stock.

ARTICLES OF INCORPORATION

STATE OF ARIZONA

Office of the

Arizona Corporation Commission

United States of America

State of Arizona

The Arizona Corporation Commission does

board of directors shall have power to issue and order issued corporate stock either for cash or in trade or exchange for mining property, water rights machinery or other real or personal property, but in such case they shall not pay more than the actual value of such property and provided further such stock shall be received

and accepted therefore at par.

The stockholders shall make and adopt By-Laws rules and regulations for the management of corporate affairs and may from time to time amend the same. Fifty one per cent of the stock issued can recall any Director or any other officer, and a meeting of stockholders can be held at any time upon the initiation and call of one director provided he has the written sanction of a majority of the outstanding stock, to call the same, which sanction must be shown at such meeting. The three directors named in these Articles shall hold office until their successors are elected; by the stockholders and of these three directors, one shall be elected for one year and another for two years and the other for three years and but one director shall be elected annually there-

After the acquisition of the mining property, belonging to Albert Heffern, and which this company shall endeavor to purchase, the board of directors shall not subject the company to any indebtedness aggregating a sum over ten thousand dollars excepting by a vote of a majority of the oustanding stock, at a regular or special meeting of the stockholders. Treasury stock shall at no time be voted; only issued stock is entitled to be voted and each share of outstandstock is entitled to one vote. Of the directors elected, one of them shall be elected by the stockholders as General Manager of the properties of the company but in no case shall such manager be elected who is not a practical an expierenced miner and experienced inthe management of mining property. No real estate belonging to the company or upon which it may have an option, or in which it may have an interest shall be sold, hypothecated or disposed of by the directors or other officers, except it be by authority of vote a of a majority of the outstanding stock or stock issued at a regular meeting of the stockholders or a special meeting thereof. A majority of the board of directors shall constitute a quorum and the board of directors shall have power to fill any vacancy which may at any time exist in its body.

The highest amount of debt or liability, direct or contingent; for which the corporation is at any time to subject itself shall, in no case exceed the sum of three million dollars, and the stock of the corporation shall forever be non-assessable.

Private property is exempt from the payment of corporate debts. No more treasury stock shall be sold or disposed of than is necessary to place the company on a dividend paying basis, at which time the remaining stock in the Treasury may be disposed of as a dividend among shareholders; or used for the betterment or the extension of the company's holdings, as is best in the opion of the majority of the stockholders at a regular or special meeting of the stockholders.

In Witness Whereof the said incorporators have hereunto set their hands and seals this the 19th day of May A. D. 1913.

ALBERT HEFFERN ALBERT DAHLBERG Seal Seal

State of Arizona

Cochise County

Before me, Frank W. Goodbody a Notary Public in and for said county and state, on this day personally appeared Albert Heffern and Albert Dahlberg personally known to be the persons who subscribed the forthgoing instrument, and acknowledged to me that they executed the same for the purpose and consideration therein expressed.

Given under my hand and seal of office this the 19th day of May A. D. 1913.

My commission expires Feb'y 23rd. 1916.

FRANK W. GOODBODY Notary Public

Filed and Recorded at request of Allen R. English, May 31st, 1913 at 9 a. m. Book 6 Incorporations. Pages 58, 59, 60, 61.

OWEN E. MURPHY County Recorder

State of Arizona)
Cochise County

I, Owen E. Murphy, County Recorder in and for the County and State aforesaid, do hereby certify, that the within instrument was filed for record at 9 o'clock a.m. on this 31st day of May

Arizona State Bureau of Mines

UNIVERSITY OF ARIZONA
TUCSON

Copy of Sealed Original.

CHARLES F. WILLIS, DIRECTOR A. M. HECKMAN, SECRETARY FRANK L. CULIN, METALLURGIST P. E. JOSEPH, MINING ENGINEER J. D. AROZENA, ASSAYER

June 13, 1916

Hon. John W. Davis, Commissioner of Banking, Little Rock, Ark.

Dear Sir:

I have examined the property of the Heffern Comperative Consolidated Gold Mining & Milling Co., with a view to submitting to you a complete report on the property, its officers and management, its methods of doing business and particularly as to its integrity of purpose and chances for making good, as I understand that they have applied for permission to sell stock in the State of Arkansas.

I beg to submit the following report:

Report on the Property of the Heffern Cooperative.

Consolidated Gold Mining & Milling Co.

The properties of the Heffern Cooperative Consolidated Gold Mining & Milling Company are situated in the Swisshelm Mountains, which are a spur of the Chricahua Mountains. The properties are about eight miles east from McNeal, a station

on the El Paso & Southwestern branch from Douglas to Courtland. McNeal is but a small town, but is a supply point. The mine is about 20 miles from Douglas, which is one of Arizona's largest cities, being on the main line of the El Paso & Southwestern railroad, a railroad centre for several branches, the location of two of the state's largest smelters, and a central supply station that greatly facilitates the operation of a mine.

The property consists of 50 claims, aggregating over 1000 acres. These claims are legally laid, location work having been done, stakes set up and the assessment work has been properly done. Although the claims are unpatented, the title seems to be perfectly clear.

The Swisshelm Mountains have a limestone base, which extends the length of the range, being tilted in various directions. This is capped by andesite and andesite agglomerate flows, which are largely eroded away and which are now only exposed on the mountain tops. It is unlikely that the andesite played any part in the mineralization.

The workings of the Heffern mine are in the limestone, which is cut by numerous fractures and shear zones, which zones and fractures show evidence of intense, hot water action and mineralization occurs in these zones from a few inches to fifty or more feet in width. The associated minerals are iron, manganese, silica and gold. The increase in iron brings an

increase in the gold content; also an increase in the dynamic action, production more or less talcy formation, brings an increase in the gold content.

 $\mathcal{J}_{1}\mathcal{J}_{3}$

A group of 66 assays was taken at regular intervals, of one foot each, thoroughly sampling the ore chutes on on the 300 foot level. These samples ran from blanks up to several hundred dollars per ton, showing an extreme irregularity in value and almost no consistency. This illustrates, however, that the deposit is of a very spotty nature. It is probably true that the gold is enclosed in the small fillings between fractures of the lime and the increase in the size and number of the fractures will bring increased values to the ores. Thile there are many of the samples that showed no gold and silver, the average is well brought up by the very high values occurring in some parts. It would be perfectly safe to say that the deposits which were sampled in this way averaged \$15 per ton. although the average of the assays was higher.

Small streaks of high grade ore are not as desirable as it is the quality of the ore that goes to the mill that counts; it is the average run day in and day out that makes for the success or failure of a mine.

The main workings of the mine consist of a shaft 490 feet in depth. On the 300 foot level is a drift running almost 1300 feet into the hill swith about 300 feet of cross cuts. On the 400 foot level, 700 feet of drifting has been done. However, as the water in the mine was at the 320 foot level, at the time of my visit. I did not have an opportunity of inspecting the lower workings. On numerous other claims prospect workings have been made, but the work has largely been concentrated at the main workings. Other possibilities of the property will be mentioned later in this report.

The mine is well equipped with necessary machinery for its operation. A hoist, compressor, drills, water supply, houses for machinery and workmen, and the whole camp shows evidence of careful and economical management. A mill is being erected to consist of ten 1050 lb stamps, crusher, concentrating tables and cyanide tanks. Most of this machinery is on the ground and its erection is progressing as rapidly as can be expected with the comparatively small force trying to operate a large property. The early work of the mill will undoubtedly not produce profits, as it must be largely experimental in order to ascertain the best method of treatment.

The proposition is absolutely unique in the annals of mining. A strictly cooperative corporation in which not one cent is paid in money for wages. A partnership yet

under corporate management, and being successfully done without petty jealousies on the part of the employees, with as excellent discipline of the workmen, shows, to me, a faith in the proposition by the men themselves that can hardly be equalled. In the present day of high wages in the mining camps, it means a real sacrifice for workmen to get but a living now, and take everything else in stock for future value. I was particularly impressed with the loyalty, efficienty and economy of the workmen which could only be so when they are part owners of the property.

There is absolutely no doubt in my mind as to honesty of purpose, efficiency and economical management of the present officers of the company. They are all capable, are getting no cash salary for their work, and are putting their time and efforts in for stock. They are not getting a bonus of stock, but only the actual amount of stock that the money they have earned entitles them to at its selling price. Then every effort is being made by all employees to keep the costs as low as possible, as they are attempting to keep the stock issue low, only sufficient stock being issued to meet daily needs.

There is no question in my mind that every cent of money raised by the company in question will go for the honest and economical development of the property, in the endeavor to make a large and successful mine of it. While the mine is not as yet fully developed, it is very promising.

Other features of the property are well worth mentioning, although none of them are as yet sufficiently developed to prove quantity.

On the south end of the property is a cement rock, which, with the advent of increased population, and therefore increased demand, should prove a marketable commodity.

Just north are several deposits which are probably fullers earth, and which can be easily and cheaply mined.

Lithographic limestone is found on the property which is very fine grained, easily carved and readily absorbs moisture, which three things are essential for the marketing of this product.

Red ocher is found on the property, but only in few places is it of sufficient quality to use for paint. Its association with lime and its proximity to smelter should make it valuable as a smelter flux.

Gypsum in a very pure state is also found, and as Douglas has a large plaster mill, this should also find a market.

Well worthy of mention among the other prospects of the company is what is known as the Bonanza, a gold-bearing quartz ledge, large in size and as yet unexplored.

In view of the above, I can heartily commend to your attention the Heffern Cooperative Consolidated Gold Mining & Milling Co. They are endeavoring to do legiti-

mate mining in a careful and efficient way, and I believe that investors in this company will get an absolutely square deal, with the possibility of having their money returned many fold. While it is impossible to say that any mine is a certain success, I believe that this mine, with sufficient capital, has every opportunity for success.

Respectfully submitted,

Charles F. Willis

Director, Arizona State Bureau of Mines.

CFW.G