



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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PRINTED: 11-16-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: COPPER HILL GROUP

ALTERNATE NAMES:

PATENTED CLAIMS MS 4452

YAVAPAI COUNTY MILS NUMBER: 245A

LOCATION: TOWNSHIP 13 N RANGE 3 W SECTION 20 QUARTER C
LATITUDE: N 34DEG 29MIN 27SEC LONGITUDE: W 112DEG 35MIN 44SEC
TOPO MAP NAME: WILHOIT - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER OXIDE
MOLYBDENUM SULFIDE
IRON FERRIC OXIDE
GOLD
SILVER

BIBLIOGRAPHY:

USGS WILHOIT QUAD
BLM MINING DISTRICT SHEET 268
ADMMR COPPER HILL GROUP FILE
KIRKEMO, H. ETAL. INVEST. MOLY. DEPTS IN US
USGS BULL 1182-E 1965 P E17-E25
HICKS, C.J. MOLY. OCC. IN AZ ADMMR PUB 1979
P 25

COPPER HILL GROUP

YAVAPAI COUNTY

USGS Bull. 1182-E p. E17

T13N R3W S_e 20

Economic Geology Vol 56 No. 5 Aug. 1961 p. 916

ABM Bull. 180, p. 121

~~See Gibbs Prospects (file) m~~

see Loma Prieta file - calnacrosses

✓
JAN 18 1944
January 17, 1944

Mr. Fred Gibbs
Sunnyslope
Prescott, Arizona

Dear Fred:

Regarding submitting your property to the W. C. Shattuck Chemical Company, I believe I failed to say that in my letter to him I told him I would be in Denver the week of January 24 and would call to see him and discuss any information you had submitted.

Charlie and I are going to Denver, leaving here Friday, January 21 to attend the meeting of the American Mining Congress, Western Division; Colorado Mining Association; and also a meeting of delegates from all of the Western Mining Associations. If you have anything personal to suggest to me on the data you submit, direct to Shattuck, I would appreciate having it before I leave. If not, I will be at the Brown Palace Hotel, Denver, next week.

Very truly yours,

J. S. Coupal
Director

JSC:JES

Sec. 20, T13N R3W.

January 15, 1944

Mr. Fred Gibbs
Sunnyslope
Prescott, Arizona

Dear Mr. Gibbs:

I have a letter dated January 5 from J. Seward Potter, of the S. W. Shattuck Chemical Co., 1805 South Bannock Street, Denver 10, Colorado.

He writes as follows:

"We are in a rather unfortunate position in regard to Molybdenum inasmuch as we are a middle man manufacturer and as such are sort of a thorn in the side of the large Molybdenum Companies and after the war they are going to make it difficult for us to compete in the market with them. Therefore, if it were possible for us to secure the right kind of Molybdenite Mining Property we would be very much interested.

"However, in no case do we wish it generally known that we are looking for a Molybdenite Mine."

I have written Mr Potter and mentioned to him your property in Copper Basin and would suggest that you write him full details and outline your opinion as to the possibilities of making a large scale operation.

I have also referred W. H. Orme-Johnson, Jr., representative of the American Metal Company Ltd. to you and your property. He will undoubtedly contact you sometime in the near future. They are also looking for a sizeable operation.

Yours very truly,

J. S. Coupal, Director

JSC:JES

December 21, 1943

Mr. Fred Gibbs
Sunnyslope
Prescott, Arizona

Dear Fred:

Many thanks for your letter of December 18 clarifying the conflicting statements on the Copper Basin. I am taking the liberty of making a copy of this and sending it to Bill Broadgate so that he may know exactly how you figured and the reasons for the stated differences of opinions as to tonnages and values.

The sudden right about face of the War Production Board on the status of molybdenum must have upset a lot of real hard efforts, not only on your part but on the part of a number of others. Just where the blame lies it is hard to say, but it would seem as though a lot of rank estimates were made without any knowledge whatsoever about the facts regarding production and consumption.

Yours very truly,

J. S. Coupal, Director

JSC:LP

cc mailed
Low. C. 15 - 12/21/43
ff.

Sunnyslope,
Prescott, Arizona.
December 18, 1943

Mr. Sam Coupal, Director,
Department of Mineral Resources,
413 Home Builders Bldg;
Phoenix, Ariz;

DEPT. MINERAL RESOURCES
RECEIVED
DEC 21 1943
PHOENIX, ARIZONA

Dear Sam:-

Re: Copper Basin:

from your office

Some time ago I received a copy of what was apparently a memo from Bill Broadgate regarding my Copper Hill moly loan under date of November 26th. I have very little time to waste writing about dead puppies, but Bill's memo does call for a few more explanatory remarks on my part.

Bill says that the calculations of USGS, B of M, WPB, etc do not check with the figure of 1,000,000 tons of 0.3% moly and 0.5% copper which I gave Willis. As a matter of fact, there are only two parties concerned when tonnage and grade are mentioned, - USGS and me. B. of M. sent an engineer to the property for the purpose of getting a large sample for mill-testing. When I discussed with this man the best way of taking the sample he told me that he was 'nt interested in grade, - that type was the sole object inasmuch as the sample was merely for mill-testing purposes. He took his sample only from the east-west drift thru one part of the orebodies, - it was not at all representative. So B. of M. figure as regards tonnage and grade is out. As to WPB, - it got all of its information from the USGS thru weekly reports sent it by the geologist on the job for USGS, as did RFC. It was not necessary for me to make reports to RFC or WPB or anyone else, - that was one of the duties of the above mentioned geologist and relieved me of the job. It was made clear to me in the beginning that this man would do all of the reporting and that I would 'nt do any of it. Willis, then, is the only government agency representative that was given my opinion as to tonnage and grade obtainable.

I don't know what the Junior Geologist representing USGS reported in the matter of tonnage and grade. But it is my guess that it was 'nt so far from my estimate. He was ultra-ultra conservative in all of his figuring as befits one in his position, and I have no fault to find with his work. He looked at the picture from the technical angle of the geologist, - not from the practical angle of the operator. There is a lot of difference. Furthermore, this initial drill campaign was laid out chiefly for the purpose of delineating size and shape of the orebodies, and because of this most of the holes were in the marginal stuff rather than in the main mass, and the grade thus obtained is not the grade of the main mass. The holes which this man and I planned for the determination

FRED GIBBS
MINING ENGINEER
PRESCOTT, ARIZONA

I know that the geologist will corroborate this, as he reported the same things in his weekly reports.

of the grade in the minable areas to be drilled after the initial program delineating size and shape was finished were never drilled, nor was the original program finished. As far as grade is concerned, my estimate took into account the practical factor of leaving as pillars those blocks which would be too low grade to mine even with a modest subsidy. Those low grade blocks were doubtless included in the geologist's estimate and would bring his ^{grade} average below mine. As to tonnage, either his estimate or mine is pretty much of a guess in view of the fact that the job was terminated before we had sufficient information to permit us to figure intelligently. I am sure that my estimate took into account ore occurring at a lower horizon than did his, and wider laterally in certain areas. As to both tonnage and grade, it must be taken into account that we found that drilling, especially with the size bits used, was not the proper method of developing the ground. We got poorest core recovery in the best ore areas, and the sludges were unreliable at all times. For several reasons, the results obtained by this drilling are in error, and the error is on the low side. My guess is that the geologist's estimates were based solely on the assays as obtained with no allowance made for these errors on the low side, and this was probably proper as far as he is concerned because, though we realized that there was an appreciable error, and that it was on the low side, we had no yardstick by which to establish a factor of correction. Consequently, I feel very certain that my estimate is just as near to being correct as that made by the USGS.

As to the matter of which agency stopt the work all I know is that Maitland on the morning of September 2nd appeared on the job and said that WPB had ordered the work stopt immediately. Personally, I don't give a damn whether it was WPB, RFC, or Roosy himself, the effect was the same. And it is beside the point that the loan has not been formally withdrawn, what difference does it make whether it is withdrawn or not after you are ordered to stop work?

I gather from Bill's memo that he feels that I regret that the work was stopt, and, had he been kept informed, that he could have kept the thing alive. My only regret in stopping was that felt by any normal person who likes to finish what they have begun, especially when they had felt all along that they were doing something essential in the war effort. From the standpoint of personal remuneration it would have been a good thing for me had they stopt the work much sooner, when you are paying out two hundred smackers a month on purchase price and drawing that same amount per month for working 16 hours a day on wet, cold, disagreeable work, you are 'nt getting anywhere much. For a year I labored under the impression that I was doing some good in the war effort, but I know now that I was just kidded along and that the year was wasted.

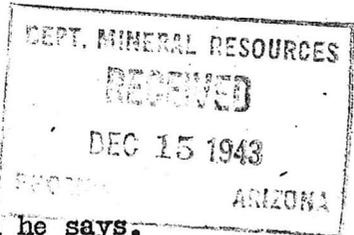
I am extremely sorry if I have violated Bill's guarantee of my competence and integrity. As to competence, I will leave it up to the RFC examining engineer in charge of my job as to whether someone else could have beaten my costs very much or gotten as much accurate data. In any event, it will take another war to prove whose estimate of grade and tonnage is the most nearly correct. As to integrity, Bill should have known better.

With best wishes,

Sincerely,

Fred
Fred Gibbs.

Washington, D.C.
Dec. 12, 1943



you ✓
SUBJECT: Copper Basin Moly.... Fred Gibbs.

I have a statement from Senator Henderson in which he says,

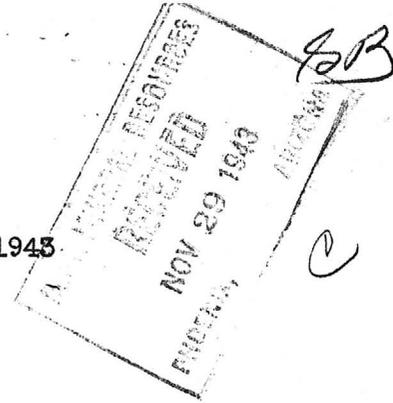
"at the request of the War Production Board, Mr. Fred Gibbs has received a loan of \$30,000 for the unwatering, rehabilitating, and sampling of his mine in Arizona. The results have indicated further work is unwarranted and this project was abandoned with Mr. Gibb's consent."

There seems to be some strange misunderstanding here which should be cleared up. I suppose Fred is through anyway and it would just be a postmortem, but I hate to be misinformed.

Bill Broadgate

*\$ 30,000 BTE
(same) approved*

November 26, 1943



SUBJECT: Fred Gibbs Copper Hill Moly loan

I have been checking into this some more. In fact RFC called me of their own volition this morning.

I told them that I had known Gibbs over 15 years and that I considered him very honest and competent, and that if there is any difference of opinion they should get in touch with him and get his observations.

It appears;

The loan has not been formally withdrawn.

The engineer examiner tells me (confidentially) that the calculations of USGS, B of M., WPB, etc., do not check with the figure given him by me from Freds letter to Willis. Obviously whatever data there was available from the drill holes, the government and Gibbs must have interpreted it with wide variations as the Examiner here has a very poor opinion of what was found by the drilling.

It appears that there was a lot of by-pass and crossfire between the WPB and other agencies, little of which was understood by RFC here. I knew nothing about the various exchanges of telegrams Fred speaks of with WPB, etc. Of course WPB would have no right to directly order an RFC loan job shut down. I have not been kept informed as to what was going on, evidently as this is all out of a clear sky to me and the damage seems to be pretty well done. I might have been able to have helped if copies of the wires and exchanges of correspondence had cleared through your office to me currently.

Fred should make his own report to RRC with his own interpretation and support of a million tons of .03 moly and .05 copper.

A large element in the original granting of both loans to Gibbs was my personal guarantee of his competence and integrity, and I hate to see any difference of opinion, even in figuring.

Bill Broadgate

November 17, 1943

MEMORANDUM

MOLY SHUT DOWN
Loma Prieta, Copper Hill
Fred Gibbs

TO: W. C. Broadgate

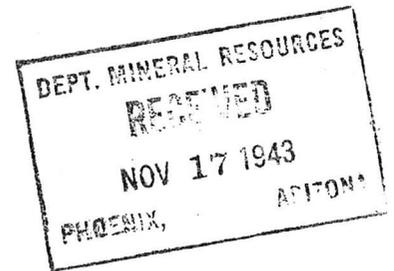
FROM: J. S. Coupal

I wrote to Fred Gibbs to have him give me a complete statement on the reasons why and what actions he took regarding the closing down of the moly operations at the Loma Prieta and the Copper Hill. He states quite definitely that it was not done at his request.

JSC:LP
Enc.

Sunnyslope,
Prescott, Ariz;
Nov. 15, 1943

Mr. Sam Coupal, Director,
Department of Mineral Resources,
413 Home Builders Bldg;
Phoenix, Ariz;



Dear Sam:-

This is the first opportunity that I have had to answer your letter of the 8th relative to stoppage of work on the Copper Basin "moly" job. Broadgate's memo to you on the subject makes me smile, while at the same time it makes me rather sore. Someone in Washington is either badly informed or else is a God Damned liar. The facts of the matter are as follows.

The Loma Prieta dewatering-sampling job was done with a \$5,000 loan taken out in Duyn's name. After we had the mine dewatered the U.S.G.S. did all the mapping and all the sampling. Samples were sent to Union Assay at Salt Lake. Quite some time before the sampling was finished the initial assay returns started coming in and it was quite evident that though the copper values were reasonably close to expectations that the "moly" was going to be disappointingly low. By the time the sampling was completely finished in late August we had made up our minds that it would be useless to apply for a development loan even though the U.S. geologist told us that he was recommending further development work. WPB had previously notified us that a subsidy on either our copper or moly was not to be had, - and as the dollar value of the combined metals was too low to permit of production at a profit we arrived at the conclusion above stated. On August 29th I received confirmation thru undisclosed sources that WPB or RFC would not consider a further loan on the property. Inasmuch as we had already decided not to apply for one, this news was of no effect one way or the other. So much for the Loma Prieta.

The story on the Copper Hill is quite different. At this mine, as you know, we had received and expended a preliminary loan last winter and had applied for and had approved a loan in the amount of \$30,000 to cover further work, said work to consist mainly of a diamond drilling campaign, the details of which were worked out and agreed upon by Maitland (RFC) Anderson (USGS) and myself. This work started in the spring and by the end of August we had completed about two thirds of the initially planned drilling and spent about one third of the loan. We finished the drilling on surface and on the 130 level by September 1st and on the morning of September 2nd started moving the drill to the 300 level where the balance of the drill holes were to be located. About mid-morning Maitland arrived at the mine and told us that WPB had ordered the work stopt immediately. You could have knocked me down with a feather as the order came out of a perfectly clear sky and without any hint what-so-ever that it was coming.

There was no explanation whatever. It was all the more bewildering because just a couple of weeks before we had been told by USGS that we had been given top billing in the country's moly projects by WPB.

Maitland, Kupfer (USGS) and I held a council of war and all of us wired and wrote Washington in an effort to get the order rescinded and permission obtained to finish the job. WPB's wired answer of Sept. 3rd passed the buck onto RFC and later that day we had a wire from RFC giving us permission to drill one 200 foot hole on the 300,- and no more. We drilled it, and quit. That's the story. I am still wondering "why", particularly so in view of the fact that when we got the shut-down order WPB was going ahead with two other projects which apparently were not as good as ours. One is a project in Washington which has 1,000,000 tons of 0.30% moly developed, and the other is one in Nevada which has 600,000 tons of the same grade. Neither have any other strategic metal values. At the time of the shut-down our drilling had shown up a million tons or so of about 0.30% moly and 0.50% copper at the Copper Hill.

Now whoever in Washington says that Fred Gibbs wanted to withdraw because the drilling did not show satisfactory conditions is just a plain damned liar and I sure would like the opportunity of telling him so. Someone doubtless had an axe to grind, and Fred Gibbs might as well be the goat. So goes it. Well, maybe sometime, if Roosevelt does'nt live too long, we may have an opportunity of separating the wheat from the chaff. Here's hoping.

Adios and Good Luck,


F. Gibbs.

November 8, 1943

Mr. Fred Gibbs
Sunnyslope
Prescott, Arizona

Dear Fred:

I have just had a memo from Bill Broadgate which reads as follows:

"SUBJECT: Copper Basin Moly, Loma Prieta, Fred Gibbs.

"I am informed that this loan was not cancelled because of the moly situation but that Fred himself wanted to withdraw because the drilling did not show satisfactory conditions."

When Charlie Willis was in Washington he was under the impression that the loan was arbitrarily cancelled and that you were given no chance to continue further work.

I would appreciate knowing whether or not this is true and would like very much to know just the conditions under which the loan was cancelled.

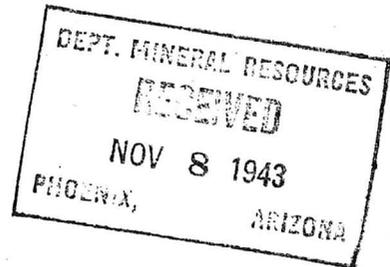
Yours very truly,

J. S. Coupal, Director

JSC:LP

Washington, D.C.
Nov. 5, 1943

SUBJECT: Copper Basin Moly
Loma Prieta,
Fred Gibbs



Memo to Charlie Willis...

I am informed that this loan was not cancelled because of the moly situation, but that Fred himself wanted to withdraw because the drilling did not show satisfactory conditions.

Please check this for me.

Bill Broadgate

Copper Hill

January 26, 1943

H.

Mr. Fred Gibbs
Sunnyslope
Prescott, Arizona

Dear Fred:

Many thanks for your letter of January 25.

Mr. Dugn was in this morning and I went over the application for a "C" loan in detail and feel as though you have done a good job on it. It has been turned over to the RFC office and will undoubtedly be returned to this office shortly and I feel sure the loan will be recommended.

I am in hopes this will get prompt action, as I hope to see it on its way to Washington by tomorrow.

I will write to Mr. Lovelace, who is the Kaiser Consulting Geologist, regarding your property and hope that he may soon be able to get in and get an examination.

Charlie and I are leaving tonight to attend the War Metals Conference in Denver where we will meet with Bill Broadgate who has been authorized to attend the conference at the expense of the Senate Small Business Committee.

With best wishes and kindest regards, I am

Very truly yours,

J. S. Coupal, Director

JSC:KK

January 26, 1943

Mr. M. B. Lovelace
Care of Henry J. Kaiser Company
1522 Latham Square Building
Oakland, California

Dear Mr. Lovelace:

I have just received a letter from Fred Gibbs, Sunnyslope, Prescott, Arizona, who is developing the Copper Hill property in Copper Basin which is out of Prescott. This work is being done on an RFC "C" loan and the property has been unwatered and Gibbs is at present engaged in sampling and mapping the workings.

We have today approved the "C" loan on the Loma Preta which is another copper molybdenum property with development work already done on it and a sizeable tonnage blocked out.

It looks as though these two properties working together, as the ownership is common to both properties, would furnish a sizeable tonnage of a low-grade copper molybdenum ore which can be handled at a profit. Their plan is to prepare both properties for an "A" loan for the purpose of installing a proper mill. The other property in the district and adjoining these two is the Commercial Mine owned by the Phelps Dodge Company but now under lease to Fred Schammer. This property contains good copper and in addition a good showing of molybdenum. They are shipping steadily the copper ore and I doubt if they are doing anything on the molybdenum.

It would pay you if you are still interested in molybdenum production to examine this group with an object of cooperating with Mr. Gibbs on a plan to speed up their production.

I do not know what can be done with the Phelps Dodge Company regarding a consolidation of the three properties, but it would seem to me the most logical outcome and one that would probably justify a 1000 ton daily operation.

C

Sunnyslope,
Prescott, Arizona.
January 25, 1943

Mr. Sam Coupal, Director,
Arizona Board of Mineral Resources,
Home Builder's Bldg;
Phoenix, Ariz;

Dear Sam:-

This will serve to introduce to you Mr. Nick Duyn, good friend of mine from Holland, - and Tuscon. Nick is associated with me in the Copper Hill venture and we have just now taken on the Loma Prieta ground to the east of and adjoining the Phelps*~~Dodge~~ property.

I have assigned my lease and option agreement with the Loma Prieta owner to Nick and he is applying for a Class "C" loan so that we may dewater and sample. We plan of course to combine both properties in a joint operation when we get to the development-production stage. We have been fortunate to find a copy of a report written in 1917 by a Mr. Tovote on the Loma Prieta. He must have been an able geologist and after reading it I feel more certain than ever that in the Basin there is an excellent chance to get a large production of molybdenum and copper quickly. The Loma Prieta apparently has much developed ore.

You may wish to look over our application before

FRED GIBBS

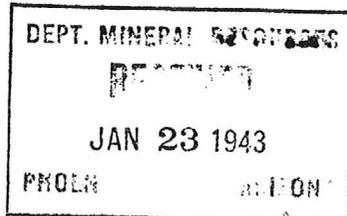
Nick takes it over to Bill Gohring's office. In any event I know that we can depend on you and the Board to give us your best services in getting favourable, and quick, action on this.

I am sampling at the Copper Hill and will have something tangible to offer very soon. On the strength of Tovote's report and assay maps on the Loma Prieta I don't know as its really necessary to have the Loma dewatered to the I50 before getting Kaiser's man on the job. Kindly impart to Nick whatever there may be to report as regards the possibility of interesting Kaiser in the Basin deposits, and he will report back to me soon.

With kindest personal regards,

Sincerely,

A handwritten signature in cursive script, appearing to read "Fred Gibbs".



Sunnyslope,
Prescott, Ariz;
Jan. 21, 1943

Mr. Sam Coupal, Director,
Mineral Resources Board,
413 Home Builder's Bldg;
Phoenix, Ariz;

Dear Sam:-

I have completed the dewatering of the Copper Hill mine and am now busy examining, mapping, and sampling. It doesn't look half bad and I really think that there is a big body of low grade but minable moly-copper ore. Will know soon.

Have taken a lease and option on the Loma Prieta mine and wish to dewater with a Class C loan. Have assigned the contract to a friend who is interested with me in the Copper Hill and application for the loan will be made in his name. Will you kindly have your office send me up at once three copies of the Class C application form? Thanks.

*Called R. J. C.
1-23-43*

From what I have been able to learn of Copper Basin to date I believe that when (and if) I have the Loma Prieta dewatered to the I50 that we will have something interesting to show Kaiser's man. If he really wants moly I think that he will be able to get all he needs in the Basin. If we can't get a loan on the Loma Prieta I would'nt be ashamed to show him (Kaiser) what we have at the Copper Hill and what may be expected in the L.P.

In a hurry. Best personal regards,

FRED GIBBS

Fred.

Copper Hill

December 24, 1942

Mr. Fred Gibbs
Sunnyslope
Prescott, Arizona

Dear Fred:

Many thanks for your letter of December 23 and I am glad to hear things are going well in Copper Basin.

I do hope you get the permission for the drill and also to mine some of the copper ore now available. Mr. Claude C. Findley, Box Q, Wickenburg, has a mill located on the west extension of the Congress vein and is looking for a source of supply of ore containing critical minerals to mill. He has been considering the Boston-Arizona and it might be possible for you to handle some of your low grade ore through him.

Regarding the rumored premium prices for copper, I am sorry to say I can give you nothing definite at this time. We hear regularly from Bill Broadgate and an increased price is definitely in the cards, but when we will be advised of it, I do not know. There is some opposition in Washington to an increased premium on copper, lead and zinc, but I believe, and so does Bill Broadgate, that they will be able to beat down this opposition.

I hope you have luck in getting hold of other molybdenum property in the Basin.

Many thanks for your good wishes and the same to you.

Yours very truly,

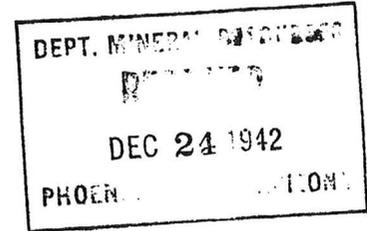
J. S. Coupal, Director

JSC:LP

FRED GIBBS
MINING ENGINEER
PRESCOTT, ARIZONA

Sunnyslope,
Prescott, Arizona.
December 23, 1942

Mr. Sam Coupal, Director,
Arizona Board of Mineral Resources,
413 Home Builder's Bldg.;
Phoenix, Ariz;



Dear Sam:-

In reply to yours of a month ago I am glad to be able to report that things in Copper Basin are going along with no more than the usual amount of grief that one expects in reopening an old mine.

I finally located a second hand hoist which we now have set and in operation and which is doing fairly well. Now have the water about half way to the first level in the shaft, and are currently having quite a bit of trouble with the bailing due to the fact that the acid water has eaten away the lag screws which held the shaft guides in place, letting the latter drop out. Replacing these under the obtaining conditions is a nasty job and slows up the work considerably. However, we are getting ahead and I am not at all discouraged with results so far.

Dewatering to date has made accessible quite a lot of old workings run from another shaft a long time ago and which I did not know existed. Examination of these has proved interesting and from both the copper and molybdenum standpoint I feel quite encouraged, - mineralization is wide spread with good sections of commercial material. Sampling will have to be done by drilling as channel sampling will be impractical and inaccurate. I have asked Gohring for permission to buy a drill, and also to mine some copper ore which is now available. Such things, as you know, hardly fall within the province of Class "C" loans, but I think that permission under the circumstances will be forthcoming.

I wish that you would let me have the latest information on premium prices for copper, - you will remember that at our last meeting here you were sure that something more than 17¢ was forthcoming, and soon. I could mine quite a bit of copper ore with a 22¢ price which I can't touch at 17¢. This would be high-silica carbonate stuff badly needed at Clarkdale. If 22¢ is forthcoming, or can be had, will you kindly advise as quickly as possible how to go about getting it?

Am taking steps looking toward the acquisition of more potential molybdenum producing property in the Basin.

Best wishes for the Holiday Season, Sincerely, *Fred.*

November 21, 1942

Mr. Fred Gibbs
Sunnyslope
Prescott, Arizona

Dear Fred:

I have just had a memorandum from Bill
Broadgate asking me to keep him posted on the
developments on your ^{moly} tungsten operations.

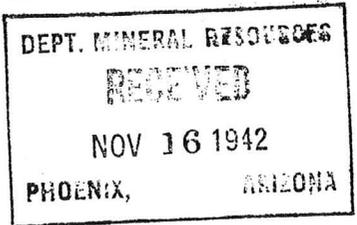
I would appreciate hearing from you as the
work progresses.

Very truly yours

J. S. Coupal, Director

JSC:BA

Washington, D.C.
Nov. 13, 1942



SUBJECT: Molybdenum
Copper Hill Mine, Copper Basin.
Fred Gibbs

Will you please ask Fred Gibbs to keep me advised as to the progress and ~~results~~ results on this program?

I have promised the WPB moly branch to keep them up to date. As you know, I have been trying to draw more attention to the possibilities of moly in Copper Basin and this will be the turning point if the sampling shows up OK I believe.

Bill Broadgate

H.

October 30, 1942

Mr. P. Kenneth Wiseman
1206 Pacific Mutual Building
Los Angeles, California

Dear Mr. Wiseman:

Mr. Fred Gibbs, who has the application for a \$20,000 loan on his Copper Hill property (molybdenum) in the Copper Basin area, was just in the office. His address is Sunnyslope, Prescott, and his telephone number is 356W.

I have known Mr. Gibbs for a good many years and he is a very capable operator. We have discussed several times the large scale operation of the Copper Basin area as a molybdenum producer and he is in very close touch with all of the details.

This is a project which you and your associates are so well equipped to make a go of that I am very anxious to have you give it a preliminary look. In doing this, I do hope you will get Mr. Fred Gibbs and my suggestion would be that you ask him to accompany you on the ground.

I feel sure that you will be favorably impressed, both with the properties and Mr. Gibbs' ability to stay with you and make a go of it.

With best wishes and kindest regards,

Very truly yours,

J. S. Coupal
Director

JSC:kk

P. S. Hope you located a trailer to cache your spare tires on.

United States Senate

MEMORANDUM

Oct. 29

Earl,

Please note the enclosed and return.

Keep me advised in detail as to the Gibbs application and if possible have a set of the supporting data sent me, and I will keep the WPB wound up.

Bill

Why did I not get a copy of the Hastings letter to Levensaler?

It is best to keep me advised by copies of all Washington Correspondence

WAR PRODUCTION BOARD

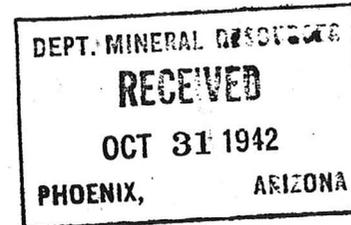
WASHINGTON, D. C.

Handwritten initials

IN REPLY REFER TO:

LAL F-A 1540-R
Oct. 28, 1942

Mr. William C. Broadgate
Hotel Harrington
Washington, D. C.



Dear Mr. Broadgate:

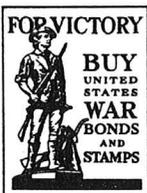
I have your letter of the 22d.

I have also received the letter from Mr. Earl F. Hastings stating that Mr. Fred Gibbs has made an application for an R. F. C. preliminary mine loan so that he can unwater, repair, and thoroughly examine the underground workings of the Copper Hill Mine. I am very glad to know that he has taken this step and I hope eventually we can be of some assistance.

Very truly yours,

L. A. Levensaler

L. A. Levensaler
Technical Consultant
Ferro-Alloys Branch



WAR PRODUCTION BOARD

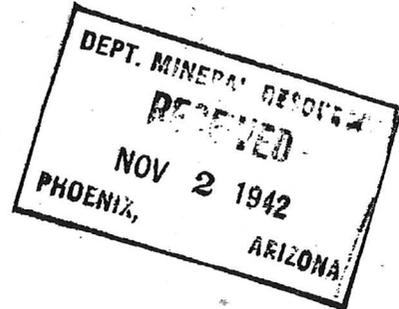
WASHINGTON, D. C.

IN REPLY REFER TO:

LAL F-A 1540-R

Oct. 28, 1942

Mr. Earl F. Hastings
C/o Department of Mineral Resources
413 Home Builders Bldg.
Phoenix, Arizona.



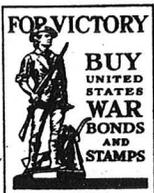
Dear Mr. Hastings:

I am very glad to know that Mr. Fred Gibbs of Prescott has made an application for a preliminary R. F. C. loan to unwater the Copper Hill Mine in the Copper Basin district. This application will probably come to my notice at the proper time and I shall be glad to expedite it in every way I can.

I wish to thank you for keeping me advised regarding the activities in your section.

Very truly yours,

L. A. Levensaler
Technical Consultant
Ferro-Alloys Branch



October 9, 1942

JSC

Mr. Fred Gibbs
Sunny Slope
Prescott, Arizona

Dear Fred:

I have just noted the memorandum to you from Earl Hastings regarding molybdenum and the suggestion that you re-new your application on the Copper Basin property.

I have just had a memorandum from Bill Broadgate in Washington asking me to send any data I could on the Copper Basin situation. I am enclosing a general report on the area by C. J. Sarle and I am sending a copy of this along with this letter to Bill Broadgate. You will note that the Phelps Dodge Company own one of the large producing groups.

Bill Broadgate may have some suggestions in addition to the one that I am making but my thought is that you should consider a general plan covering the entire district and see what could be done toward a large scale setup for production from Copper Basin. Bill Broadgate may have some further suggestions to you regarding this or he may advise me, in which event I will contact you at once.

With best wishes and kindest regards, I am

Yours very truly,

J. S. Coupal, Director

JSC:LP
Enc.

CC: W. C. Broadgate

October 9, 1942

COPPER BASIN

Mr. Fred Gibbs
Sunny Slope
Prescott, Arizona

Dear Mr. Gibbs:

Since our last communication with you there has been a definite change in the molybdenum market. Any possibly productive molybdenum mines are now receiving favorable consideration from the RFC and there appears to be an assured market.

Believing this might affect you in a decision as to reapplication on your Copper Basin property we hasten to notify you.

Very truly yours,

Earl F. Hastings
Assistant Director
& Projects Engineer

EFH:BA

Copper Basin

W

Sunnyslope,
Prescott, Ariz;
Sept. 22, 1942

Mr. Charles F. Willis,
Department of Mineral Resources,
518 Title & Trust Bldg;
Phoenix, Ariz;

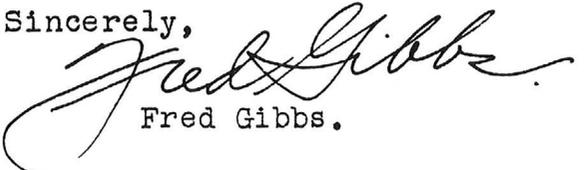
Dear Charlie:-

Thank you very much for your letter of the 21st with the information regarding marketing conditions of molybdenum concentrates which you received from Bill Broadgate. You certainly delivered speedy service in response to my request, and I surely appreciate it. I didn't think Washington conditions would permit such quick action, - Bill certainly must be in close touch, and very much on the job.

The information is not sufficiently rosy to encourage me to go ahead with the moly project, and I shall forthwith drop it and look for something with a better future.

With best wishes,

Sincerely,


Fred Gibbs.

September 21, 1942

✓ Mr. Fred Gibbs,
231 South Mt. Vernon Street,
Prescott, Arizona.

Dear Fred:

I have today received a reply from Bill Broadgate regarding the inquiry you made relative to a molybdenum market. He reports as follows:

"In answer to inquiry of Sept. 17, 1942 re Gibbs Copper Basin. I have talked to the man responsible for allocating moly, and asked him about the surety of a market if one opened up a new property.

"He tells me that he is allocating three million pounds of concentrates per quarter to lease lend and probably could take over 10,000 pounds or even 20,000 pounds of concentrates and apply it to this allocation, quarterly.

"Also around 2,500 pounds concentrates per month could be placed with Shattuck in Denver.

"I gather that, as you may expect, the position of moly is easy, but that additional production can be marketed, and that he will be glad to help place it."

It would appear that there is not a very big market but that they can dispose of more than they already have.

This is illustrative of the quick action we are getting on inquiries, as we wrote Bill regarding your problem last Thursday and get you the answer by Tuesday.

With kindest personal regards, I am

Yours very truly,

CHARLES F. WILLIS, Chairman
Board of Governors

CFW:MH

RECONSTRUCTION FINANCE CORPORATION

WASHINGTON

325 Heard Building
Phoenix, Arizona
September 17, 1942

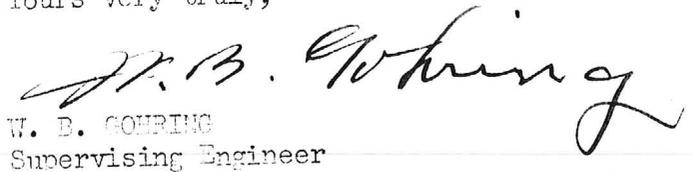
Mr. Earl F. Hastings
Assistant Director,
Department of Mineral Resources
Phoenix, Arizona

Re: Phoenix No. 47
Fred Gibbs

Dear Earl:

In forwarding the enclosed Preliminary Development loan application, of Fred Gibbs, I would like to say that I had quite a conversation with Mr. Gibbs about the marketing of molybdenum. Neither one of us knew much about that. We both agree that possibly that may be the vital question in deciding whether it is worthwhile to open up this mine. There probably is to be found here a good substantial tonnage of the ore he claims but the question is whether it is marketable. I personally have no reason to question this but I am very ignorant on the subject and call your attention to the point, inasmuch as your facilities for getting this information are so much better than mine.

Yours very truly,


W. B. GORING
Supervising Engineer

WRG-G
Enclosures
1c-Application, with data

COPPER HILL GROUP

YAVAPAI COUNTY

Phelps Dodge Corporation has paid \$22,000 to International Molybdenum Co. on its purchase contract for International's Copper Basin copper claims. An additional \$8,000 is due and according to reports will be paid when certain International's claims are patented. If, and when, PD operates the properties it will pay a \$0.03 royalty per ton of ore treated. International Molybdenum is a Canadian company which owns Copper Basin through a 100 per cent owned subsidiary - International Ranwick Limited.

Mining World July 1961 p. 41

Copper Hill Group
Shall Valley
Yavapai Co.

M I N E R E P O R T

COPPER HILL GROUP OF MINING CLAIMS.

Copper Basin Mining District,

Yavapai County, Arizona.

COPPER HILL GROUP OF MINING CLAIMS.

To all whom it may concern:-

That I a practical Mining Engineer, do hereby make and submit the following Mine Report, made from my personal knowledge of the property, and known to me as the Copper Hill Group of Mining Claims, of the Copper Basin Mining District, of Yavapai County, Arizona. I do herewith bind myself, for and in the consideration of the conditions herein named, to assist any interested party, or parties, at any convenient time in making a joint re-examination of the property herein described. And if any and all statements herein given can not be corroborated in said joint re-examination I hereby agree, in that event, to guarantee the cost, and the expenses of any party or parties making a subsequent examination. In the event that my work is found to be fairly and accurately correct, the cost and the expenses of any subsequent examination must be paid by the party or the parties making same.

The Copper Hill Group consists of fourteen (14) claims located in the Copper Basin Mining District, of Yavapai County, Arizona. Dated at Copper Basin, Yavapai County, Arizona, June 7th, A. D. 1913.

The Copper Hill Group and the adjacent claims of the Commercial Metals Company, are situated on the eastern part of the Copper Hill, which is a part of the dominant volcanic cone. The Copper Hill is composed of a variety of igneous rocks, including granite, quartzite, and gneiss. The Copper Hill is a part of the dominant volcanic cone. The Copper Hill is a part of the dominant volcanic cone. The Copper Hill is a part of the dominant volcanic cone.

SUBMITTED BY:

Various character of oxidized copper ore occur at several points on the Copper Hill. The ore is found to extend to depths of 25 feet. Detailed description is given of all the properties shown in Cross Section No. 1. Occurs massive in the east. The ore is found in the fracture planes of the quartz, and the quartz is highly crystalline. Chalcopyrite and bornite is present in all of the ore. The ore is found in the fracture planes of the quartz, and the quartz is highly crystalline. Chalcopyrite and bornite is present in all of the ore.

R E P O R T

Cross Section No. 1. - Fifty thousand (50,000) pounds of
ore was mined and assayed from the openings shown in Cross
Section No. 2. The assay result being as follows: Cu. 17.4 Au. 15/100
Ag. 7.5 An assay of COPPER HILL GROUP of MINING CLAIMS. Au. 3.70

GEOGRAPHY.

Located in the Copper Basin Mining District, of Yavapai
County, Arizona. Twelve miles south-west of the City of Prescott,
and six miles east of Skull Valley Station on the Santa Fee Prescott-
Phoenix Railway. See map of the District.

ACREAGE-TITLE.

The Copper Hill Group consists of fourteen (14) full and
fractional lode claim locations, embracing an area of 242 acres.
Consult surface plan. An abstract of title will show the property to
be free and unencumbered. The ownership resting with Elias S. Clark,
of the City of Prescott, and John J. Jackson, of Copper Basin, Arizona.

GEOLOGY.

Country rocks- The geological horizon to the south, west, and
to the north-west of the Group is comprised of highly altered granitic
rocks, the strike and dip being variable. There is present in the
granitic structures a number of volcanic upheavals and intrusive dikes
which are comprised of fine grained porphyry, quartz-porphry, and
volcanic tuff's. The intrusions conform to a southeast north-west
strike and dip to the south.

Ore-bearing rocks and formations- On the eastern part of the
Copper Hill Group, and extending on to the adjoining claims of the
Commercial Mining Company, there is a number of prominent volcanic
upheavals which are locally known as Copper Hill, Cross Hill, Quartz
Hill Garbarino and Nugget Hills. The geological constituents being
monzonite and quartz-porphry, quartz-pegmatite, and breccias. Veins
of quartz, and quartz and iron traverse the porphyritic structures
at various points. The Hills are strikingly foreign both in color
and mineral constituents to the surrounding country rocks, with which
they form geological contacts. The porphyritic structures belong to
the Tertiary Age, are younger or subsequent in geologic age to the
altered granite formations. The highly brecciated conditions in the
crosscut shown in the Cross Section No. 1., substantiates this opinion
as to geologic Age.

CHARACTER of ORES.

Various character of oxidized copper ores occur at
several points on the Copper Hill Claim, where elevations exist it
extends to depths of 45 feet. Metallic copper is encountered in all
the openings shown in Cross Section No 2. Occurs massive in the soft
conditions, in sheet form in the fracture planes of the quartz, and the
quartz-porphyrines. Chalcopyrite and iron pyrite is present in all of
the openings shown in each of the Sections, occurs massive and dis-
seminated in the quartz, and quartz-porphyrines. Molybdenite is found
associated with the chalcopyrite, occurs in sheet form in the fracture
planes of the breccia, and disseminated in the quartz-porphyrines in

VALUE of ORES.

Cross Section No 2. -- Sixty thousand (60,000) pounds of ore was mined and assorted from part of the openings shown in Cross Section No 2., The assay result being as follows- Cu. 17½% Au. 15/100 Ag. 2.5 As mined without assorting- Cu. 4.5% Au. \$.90 Ag. \$.70

Cross Section No 1.- As mined from the condition shown as "Silicious ore 7 feet in width sym C" Cu. 4.5% Au. 15/100 Ag. 3.5 As mined from the condition as shown as "Quartz-breccia 92 feet in width, sym C D" Cu. 1.7% Au. \$.65 Ag. trace.

Molybdenite - This metal is encountered in every opening of each of the Sections submitted with this report. At the present time an accurate analyses of this metal is not available. It is quite evident that from the wide distribution, the high percentage exposed at several points under-ground, coarseness of the crystals, that the metal is present in payable quantities.

TONNAGE.

Development is not sufficiently advanced at the present time to permit an accurate estimate on the available tonnage under-ground. By the selection of conditions where favorable assay results can be obtained, and where width's of ore is exposed in the main crosscut, also in the drift south from same, as shown in Cross Section No 1. several thousands of tons of ore is available which will return a profit by concentration. This same statement is applicable to the conditions and ore as shown in Cross Section No 2. There is approximately, 400 tons of ore on the dumps at the openings as shown in Cross Section No 2 which will give an assay result as follows- Cu. 5.5% Au. and Ag. \$1.70 There is also 35 tons of oxidized copper ores on the dumps, which will give an assay return of Cu. 6.5%

DEVELOPMENT.

The principal development is confined to the Copper Hill Claim. Consists of shaft's, crosscuts, and drifts as shown in each of the Cross Sections. Two tunnels have been driven, one in Cross Hill a distance of 180 feet, and one in Copper Hill a distance of 190 feet. The total development aggregates 1200 feet of under-ground openings. The deepest being the main shaft shown in Cross Section No 1 which is 142 feet in vertical depth.

EQUIPMENT.

A steam hoisting plant complete and in good condition, consisting of the following described machinery - One 40 H-P L type Frost make Boiler, with fittings complete. One 6" x 3" double action geared F. M. Davis Hoist. One 100 gallon torpedo Bucket. Two No 3 Ore Buckets. One No 3 Ore Car. The hoisting plant is equipped with wrenches, pipe cutting and threading tools, and all items necessary in operating same. The blacksmith shop is equipped with bellows, anvil, vise, and all tools necessary for a small mine shop. The surface improvements will accommodate a force of ten or twelve men.

AVICE PL OBER*

WOOD-WATER.

Wood for domestic use may be obtained upon the Group. Wood for steaming and mechanical purposes can be obtained from the Prescott Forest Reserve, two miles easterly, at an average cost of \$5.00 per cord delivered at the mine.

Water for domestic use is obtained from a 30 foot shaft located on the M. F. S. Claim. Water for steaming and mechanical purposes is developed in the mine which produces 10,000 gallons at the present depth.

ACCESSIBILITY.

The graded County road passes through the Copper Hill Camp. The natural shipping point for the District is Skull Valley distant six miles. The elevation at the property is 5360 feet above sea level, at Skull Valley Station the elevation is 4350 feet above sea level.

RECOMMENDATIONS.

I would recommend the further development of the property by the sinking of the present main shaft to a depth of at least 500 feet, with crosscuts at each one hundred foot level, and drift's from same. This depth would reach the zone of permanent sulphide conditions which the present depth of 142 feet does not, being in the neutral zone or zone of variable water levels.

CONCLUSION.

In conclusion I will say: The property possesses merit as a prospect. The character of the ores thus far developed, coupled with the mineral constituents, and the favorable geological features, will warrant and justify further exploitation. I have no hesitancy in recommending the property for purchase and further development.

Respectfully submitted,

COPPER HILL IN GRASP OF I. W. W. MEN

Failure of International Members
to Report For Work at Cop-
per Hill is Believed to Register
Victory for Industrial Workers

JUN 28 1917

BULLETIN

That an early and amicable agreement will be reached by the mine managers, the striking miners and the members of the I. W. W., is the opinion of Governor Thomas Campbell who arrived in the city at an early hour this morning. The governor was accompanied by his secretary, F. Lynch and State Game Warden Joe V. Prochaska.

Regarding the method of procedure which he would adopt to bring about an end to the trouble, the governor refused to state. In discussing the matter he said:

"At this time I am unable to say, except in the most general way, what my plans are. I have not yet had an opportunity to become fully acquainted with the situation. Before taking any steps in this matter I will confer first with the officials of the International Union of Mine, Mill and Smelter Workers, the mine managers and the heads of Metal Mine Workers.

"I shall endeavor to bring about an early and amicable agreement between the disputants and institute negotiations with this end in view immediately. At the same time I will do all in my power to insure that the peace of the community will be maintained. In this connection I refer to possible internal as well as to external harm.

"It is my sincere belief that an expeditious and amicable understanding will be secured."

DECLARING that they intended to make the laws which should "run this camp," pickets at the Old Dominion mine added the crowning indignity to the chapter of violence which began with the institution of the strike in the district, by openly threatening the lives of District Attorney Hugh Foster and Sheriff Tom Armer. The county officials were notified by a mob that if they entered the company grounds in their car again, they would be shot down as they crossed the boundary.

This bald statement was made after the pair had motored to the mine for a conference with the deputies on guard. As they drew abreast of the crowd of strikers at the entrance to the property they were called upon to halt but proceeded

without heeding the command. Returning shortly afterward Sheriff Armer stopped the car to inform the pickets that the machine was bound on official business and would not be stopped at any time in the future. He also stated that inasmuch as it was a county highway which the mob was obstructing, no other automobiles were to be halted.

OFFICIALS ARE CURSED

The leader, an Austrian who claimed to be an American citizen, viciously cursed the motorists and delivered an ultimatum to the effect that the officers would be permitted to visit the mine providing they left their car in charge of the pickets, walking the remainder of the distance. Another attempt, he said, to run the blockade would result in death.

Other spokesmen roundly denounced the interference of the officers, and announced that they would conduct the strike along lines which they had mapped out, and that they would incidentally manage the affairs of the city as well.

The same high-handed methods were pursued throughout the day. Flushed with the success of their repulse of the authorities the day previous, the mob, armed with clubs, swaggered back and forth within the limits of their patrol. The ice wagon, on its way to the hospital, was stopped and refused admittance to the grounds. At length, it was decided to allow a small amount of ice to be sent in. This the ice men were compelled to carry from the deadline established by the Austrians to the hospital. Further violence was avoided throughout the day, since no attempt was made to introduce workmen or supplies.

I. W. W. SCORE VICTORY

Copper Hill is literally in the grasp of the Metal Mine Workers. The first victory of the I. W. W. was registered yesterday when the afternoon shift was instructed not to report for duty. According to an official statement given out at the local headquarters of the International Union of Mine, Mill and Smelter Workers, the change in the policy of the organization was due to the fact that "the boys don't want to work on the Fourth."

In view of the fact that the latter organization has reached an understanding with the Iron Cap and the Superior & Boston mine, to whom they agreed to furnish workmen, the failure to send up the regular complement yesterday is construed as meaning that the Mine Workers, who opposed the settlement, are temporarily in complete control of the situation.

MEN COME FROM MIAMI

Somewhere in the neighborhood of 200 members of the Metal Mine Workers motored to the city from Miami early in the morning, for the purpose of picketing the two mines which signed up with the I. U. M. M. and S. W. The morning shift, however, had gone to work before the arrival of the Concentrator City men.

Several hundred pickets were then mobilized at three points along the road to Copper Hill. Every car, bound in either direction, public or private, was stopped, the occupants questioned and a search made of the interior. Strong forces were posted before each of the copper companies.

No violence was offered when the shift came from the mines, although an official of the I. U. M. M. and S. W. was stopped while enroute to

(Special Correspondence.)—The Copper Hill Co. has just received an oil-burning engine and other machinery for the extensive development work planned. Since April this company has shipped seven cars of high-grade copper and molybdenum ore. *Miner & Scientific News*,
Globe, September 6. *Sept 22-17*

MOLYBDENITE ORE IN COPPER BASIN

Being Shipped From Copper
Hill Group. Sinking Main Shaft
to Depth of 1,000 Feet.

Prescott, Ariz., July 3.—The Copper Hill group in Copper Basin, and operation by Arthur L. Garford, of Ohio, with George M. White in charge as manager, is making a creditable showing in development and production. The sixth car is now being loaded for shipment since negotiations were concluded less than two months ago. Mr. White states that one car of molybdenite ore shipped was particularly noteworthy in the high percentage carried in this metal, and another car was being loaded of a still higher grade. The main shaft is being sunk to a depth of 1,000 feet, while other zones are also active, the general situation underground far exceeding expectations and verifying reports made by the former owners.

The product from this property is being treated at the Wickenburg sampling works of Mr. Garford and the concentrate content shipped to eastern manufacturers. New machinery is being installed and the mine force numbers 18. Mr. White also imparted the important information that the molybdenite rating of the Copper Hill had reached eastern markets, and was occasioning such interest that a representative of the United States Steel corporation was enroute from Pittsburgh to make a close examination of the zones where this product exists of an immense tonnage, for the purpose of definitely ascertaining what tonnage may be provided in the future on a basis of permanency. The demand for this metal is heavy, and this feature of the mineral content of the Copper Hill, with that of gold and copper, gives the property an exceptionally desirable rating.

Unwatering of the shaft of the Copper Hill mines has been completed, and development work was started a few days ago. The work is being done by a syndicate of which Bernard Cunniff, E. M., is the organizer, and they have made the first payment upon the properties. The Copper Hill group comprises fourteen claims in the Copper Basin section, close to the mines of the Commercial Mining Company, and the property is considered by mining men one of the most promising in the Copper State. The ore deposit is already exposed to a width of over 100 feet, and the end is not yet. Mr. Cunniff is expected to return from the east in a short time, after which it is probable that the work at the mines in Copper Basin will go ahead upon a larger scale.—Prescott Courier.

John J. Jackson, owner of the Copper Hill group, which adjoin on the west the Commercial in Copper Basin has received returns from his first test shipment of 230 tons of an oxide ore treated at Hayden, which netted \$383.

While in the city yesterday Mr. Jackson stated that this product was developed from upper levels, and was marketed on a testing basis only, being the initial shipment made in many years. From the openings there is exposed a large tonnage, and regular shipments are to be made hereafter. The values carried were copper only.

Prescott Journal Miner: The molybdenite rating of the Copper Hill had reached Eastern markets, and was occasioning that interest that a representative of the United States Steel Corporation was en route from Pittsburg to make a close examination of the zones where this product exists of an immense tonnage, for the purpose of definitely ascertaining what tonnage may be provided in the future on a basis of permanency. The demand for this metal is heavy, and this feature of the mineral content of the Copper Hill, with that of gold and copper, Mr. White states, gives the property an exceptionally desirable rating. Mr. Garford expresses himself as decidedly well pleased with his investment, and is to outlay several thousand dollars in development. The property is to be operated on an individual basis.

Preparing to Ship Molybdenite
 J. J. Jackson, who is associated with E. S. Clark in the ownership of the Copper Hill mine in Copper Basin, is in correspondence with ore purchasers relative to the sale of molybdenite ore, of which there is a body seven feet in width in the Copper Hill. This particular streak of ore is high grade, and it is the purpose of the owners to ship it to some plant adapted to its concentration. The market price is very high, it being one of the affected metals affected by the war. The last issue of the Mining and Engineering World says:

"Molybdenite is now quoted at \$1500 per ton for a 95% product, while but a few months ago it could be had for \$1000 per ton. Most of the ore comes from Arizona."

Yavapai County
COPPER HILL—This mine has not been operated since 1908, but it is to be examined in the near future to determine the value of the molybdenite in the ore. 4/2

Copper Hill Group Under Option.

A syndicate of Candlian capitalists, some of whom are owners of the Storm Cloud group of mines, have taken an option upon the Copper Hill group of fourteen claims which adjoin the copper mines of the Commercial Mining Company, in Copper Basin. The Copper Hill claims are the property of J. J. Jackson and E. S. Clark, who have done considerable work upon them during the past two years, with excellent results. Presumably they are copper mines, as within the boundaries of the claims is an extensive copper zone, and copper ore of high grade has been opened up in several places; but the occurrence of a considerable quantity of molybdenite ore exceeding in value that of any purely copper ore, is good reason for considering the copper a by-product. However, this is not bothering the owners. The streak of highgrade molyb-

denite ore is from 14 feet in width, carrying from 15 per cent. molybdenite. The metal is not confined to this streak, however, being disseminated through from 7 to 20 feet of the surrounding formation. Until quite recently the association of copper with molybdenite has been considered a detriment, owing to difficulty of treatment, but it is stated that this difficulty has been recently overcome. The Copper Hill mine was recently unwatered by the men who have taken the option upon it, and the examination proving satisfactory further development work will be commenced in about two weeks.

PRESCOTT, May 21—Acting on telegraphic orders from Bernard Cunniff, at New York city, John Lindell has taken over the Copper Hill group of mines in Copper Basin, owned by John J. Jackson and E. S. Clark, and placed a small force of miners at work. MAY - 1915

Mr. Cunniff will arrive in Prescott before June 1, when it is quite probable he will assume the management of this property and begin exploration on quite a large scale. Production it is said, will be his motive, and from new ground recently opened up, with the large tonnage available in the old workings, it is believed this property has an attractive rating for the future, and particularly so in its vast resources in molybdenite ores. This metal has suddenly sprung into high price quotations, reaching to over \$750 per ton for a 90 per cent grade of concentrates.

Zones of the Copper Hill show a vast tonnage of this mineral, while recently there has been developed in new workings a good grade of copper ore in a sulphide and oxidized state. Mr. Cunniff and eastern associates secured an option on this group of fourteen claims about two months ago, at a price said to be for over \$40,000. (These holdings adjoin on the west the Commercial, which is now operating and producing. The Copper Hill is equipped with a hoisting plant and other utilities and has accommodations for over 20 miners.

Gives Orders To Unwater Old Shaft

May - 1915
Bernard Cunniff, who has taken over the Copper Hill group in Copper Basin, under a bond, wired John Lindell, his agent, yesterday, to begin the unwatering of the old shaft, where operations would begin in a short time. At present a force is developing in another zone and in a few days the number employed will reach to over ten miners. Mr. Cunniff is expected to arrive from New York next week, when extensive operations are planned.

Acting on telegraphic orders from Bernard Cunniff at New York city, John Lindell has taken over the Copper Hill group of mines in Copper Basin, owned by John J. Jackson and E. S. Clark, and placed a small force of miners at work. (1)

Mr. Cunniff will arrive in Prescott before June 1, when it is quite probable he will assume the management of this property and begin exploration on quite a large scale. Production it is said, will be his motive, and from new ground recently opened up, with the large tonnage available in the old workings, it is believed this property has an attractive rating for the future, and particularly so in its vast resources in molybdenite ores. This metal has suddenly sprung into high price quotations, reaching to over \$750 per ton for a 90 per cent grade of concentrates.

Zones of the Copper Hill show a vast tonnage of this mineral, while recently there has been developed in new workings a good grade of copper ore in a sulphide and oxidized state. Mr. Cunniff and eastern associates secured an option on this group of fourteen claims about two months ago, at a price said to be for over \$40,000. These holdings adjoin on the west the Commercial, which is now operating and producing. The Copper Hill is equipped with a hoisting plant and other utilities, and has accommodations for over 20 miners.

Shaft Unwatered.

Unwatering the shaft of the Copper Hill mine has been completed, and development work started a few days ago. The work is being done by a syndicate of which Bernard Cunniff, E. M., is the organizer, and they have made the first payment upon the properties. The Copper Hill comprises fourteen claims in the Copper Basin section, close to the mines of the Commercial Mining Company, and the property is considered by mining men one of the most promising in the Copper State. The ore deposit is already exposed to a width of over 100 feet, and the shaft is not yet. Mr. Cunniff is expected to return from the east in a short time, after which it is probable that the work at the mines in Copper Basin will go ahead upon a larger scale.—Prescott Courier.

GARFORD INTERESTS BUY COPPER HILL

Wickenburg, Ariz., May 3.—Another big mine will in a very short time begin to show its output to the local plant of the Arizona Sampling & Reduction company. This is assured by the official announcement that the Garford interests which own the local reduction plant and have recently taken over by purchase the Jackman & Withers molybdenite mine near Kingman, have also purchased the Copper Hill mine, located in Copper Basin, from John J. Jackson and E. S. Clark.

The property of the Copper Hill consists of ten lode claims and is fully equipped with all the necessary machinery and camp, as well as an ample footage of development work, which will insure the immediate shipping of ore from the mine to the local plant for treatment. General Manager George M. White of the local plant, and who is the consulting head of the Garford interests, left Monday morning for the mine, where he will inaugurate work under the new proprietorship and soon after the first of May shipping to Wickenburg will be begun, which will be followed in rapid succession by other shipments as fast as the cars of ore can be hauled to the railroad at Skull Valley, which is the shipping point for the property.

This is a big deal and means that the local reduction plant will soon be operating on a larger shift basis than ever before. Also, it means much for Wickenburg, as the properties that this company is rapidly building up means that in a short time this point will be one of the largest ore treating stations in the state.

Pres. Journal Miner: The Copper Hill holdings in Copper Basin are being shaped up for large development to begin immediately, and the arrival a few days ago of a large oil burning engine to drive an air compressor marks a new era in operations decided upon for that property. This move results from development given since Arthur L. Garford took over the group last April, since which time over seven carloads of a high grade copper-molybdenite product have been shipped East, with values that were satisfactory. The increased power facilities are warranted by development given at different points, and the plan is to drive the main shaft to a depth of 1,000 feet, with intermediate exploration also energetically carried out. Additional surface accommodations are to be provided for an increased force, and what is planned to be the biggest camp in that field soon will be realized.

Copper Hill (Copper Basin)—The Garford syndicate is to install on its Copper Hill mines in Copper Basin a reduction plant, and at present a force is employed in dismantling a mill on Cherry creek, purchased a short time ago. It is reported that the mill is to be equipped with flotation. A new hoisting plant also is to be installed immediately, while several buildings at the camp are nearing completion, all of which are to be steam heated. 101917

May 1, 1957

M. Gemmill reported:

✓ Copper Hill Idle

✓ Fred Gibbs
356 Hassayampa Dr.
Prescott, Ariz.

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT



Date 8/27/38

1. Mine: Copper Hill
2. Location: Sec..... Twp..... Range..... Nearest Town..... Distance.....
Direction..... Nearest R.R..... Distance.....
Road Conditions.....
3. Mining District and County: Copper Basin, Yavapai
4. Former Name of Mine:.....
5. Owner:.....
Address:.....
6. Operator:.....
Address:.....
7. Principal Minerals:.....
8. Number of Claims: Lode..... Patented..... Unpatented.....
Placer..... Patented..... Unpatented.....
9. Type of Surrounding Terrain:.....
.....
.....
10. Geology and Mineralization:.....
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.....
.....
11. Dimension and Value of Ore Body:.....
.....
.....

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

12. Ore "Blocked Out" or "In sight":

Ore Probable:

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts		
Raises		
Tunnels		
Crosscuts		
Stopes		

14. Water Supply:

15. Brief History:

16. Remarks:

The Copper Hill property in Copper Basin, Yavapai County, is owned by
✓ International Panwick, Ltd.
25 King St. West.
Toronto, Ontario

17. If Property for Sale, List Approximate Price and Terms:

18. Signature:

✓
Fred Gibbs.

NAME OF MINE: COPPER HILL

COUNTY: YAVAPAI
DISTRICT: COPPER BASIN
METALS: CU

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

DATE:

5/1/44 Fred Gibbs, Sunnyslope,
Prescott

5/1/44 Closed

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ✓ Copper Hill

Date Jan 18th, 1943

District Copper Basin, Navapai Co, Ariz.

Engineer A. C. Nebeker

Subject: Progress since acquiring loan.

Mr Fred Gibbs ✓ is working this property with two men with himself. He has fixed up the wooden headframe, put on a good gasoline hoist, and covered it with a good hoist house. He has been bailing water from the shaft with a self operating bailing tank, and has got the water below the 130 foot level. He is now getting ready to sample this level and due to the fact he finds ore in the walls of the fault fissure, he is going to use the long drill method and drill the walls. He found the fissure carrying ore which assaying both in copper and molybdenum.

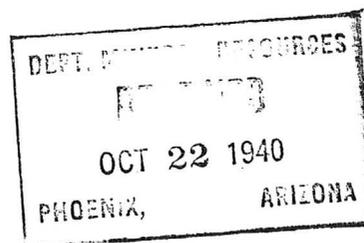
Mr Gibbs thinks he is coming out O.K.

This property is next to the Old Commercial mine which is still shipping a railroad car of ore per day.

A. C. Nebeker



Aguila, Arizona, October 21, 1940



To: J. S. Coupal, Director,

From: Elgin B. Holt

Subject: M O L Y B D E N I T E:

Copper Hill Group / also known as Gold Hill Group and
Jackson Property. / Controlled by Richard Kingdon, Cleator, Ariz.

Loma Prieta Group, owned by H. C. Smoot, Assayer, Prescott, Ariz.

Commercial Property, owned by Phelps Dodge Corp.

These properties were called to my attention, in Prescott, by Mr. W. C. Broadgate, who suggested that I see Mr. H. C. Smoot about the matter.

I then called on Mr. Smoot who explained that the best property of the three groups above mentioned is the Gold Hill, or Jackson property, on which considerable development work has been done and from which "1800 tons of ore mined for its molybdenite content, between 1916 and 1918, 7 car lots of of 300 tons are said to have averaged 5% MoS₂; that the balance ran 1.5% to 2% MoS₂ -- and in gold at the old price \$2.00, in silver 3 ozs., in copper 2 to 2.5%". (See attached report by Sarle.)

Smoot said the two other groups referred to above are more or less in the prospect stage of development.

Smoot also handed me a rather complete report on these properties by C. J. Sarle, Consulting Geologist, Tucson, Arizona, dated Nov. 14, 1935, and which report is herewith attached and made a part of this memorandum.

Reference is made to your confidential memorandum of October 3, in which you advise Field Engineers that you have a call for molybdenite properties from responsible people. I suggest that you submit these properties to these parties for their consideration.

When time permits, I want to look these mines over myself. Smoot has agreed to go with me in order to show me over the same. However, as properties are rather fully covered by the report enclosed, I thought I would get this information to you as soon as possible.

Should you have the Sarle report copied, I would like to have a copy of it for my files.

E. B. Holt.
E. B. Holt.

11/14/35

Extracts From

ADVANCED INFORMATION CONCERNING LARGE MOLYBDENITE OCCURRENCE IN ARIZONA

C. J. Sarle, Consulting Geologist

✓ COPPER HILL GROUP

Reference to the above cited claim map shows how the four unpatented lode claims, comprising the Copper Hill Group, cover the western end of the known area of molybdenite occurrences.

The highway from Prescott to Skull Valley passes through the camp,--This comprises three small dwelling houses, a mess house, and a large power house, all in good state of repair.

Water adequate for domestic purposes is piped to camp from a distant spring.

The camp closely centers upon the principal mine workings: The main shaft lies about 200 feet to the West of the Highway; the portal of a long cross cut drift, driven under Copper Hill, from the South, lies about 300 feet to the West of that; and a second tunnel, some 400 feet North and a little West of the main shaft. Molybdenite ore has been encountered in all these workings. Red Hill, a thousand feet or so to the South and West, surface sampled, is said to have averaged 0.30 Mo.; while an occurrence of molybdenite disseminated in the granite, and as yet unprospected, and therefore of unknown potential value, outcrops in the bed and on one side of the wash some 1500 feet North and a little East of the main shaft.

A heavy dot-and-dash line indicates the supposed position of the hanging wall of a molybdenite ore body believed by the owner of this property to be 500 feet long and 250 feet wide. Exploratory work may well show this occurrence to be larger. Panoramic view "A", shows the lay of the camp, although vegetation obscures most of the details.

Surface equipment centered about the main shaft and workings, includes hoist and compressor, Diesel Engine, small gas engine, two pumps, piping, blacksmith outfit and such tools as are most in use in a mining camp.

The mine is said to make about 20,000 gallons of water per day; enough, if properly handled, to supply a 50 ton per day milling operation -- supply doubtless to be increased with deeper mining.

Preparations of the Copper Hill shaft and workings now just reaching completion, I have had no chance as yet for an examination. And the information here supplied by Mr. J. J. Jackson, the owner, it is recognized is very incompletely reproduced.

The shaft was not sunk on the ore -- it is 300 feet deep and there are in all a little more than 600 feet of lateral work. The principal development was on the 130 foot level; here there is a drift 170 feet to the South and a 300 foot cross cut running to the East. In the Southeast corner of the station on the 200 foot level, Chalcopyrite was encountered. On the 300 foot level a cross-cut runs East 80 feet, and Southeast 40 feet, and Northeast 150 feet, and 40 to 50 feet more, driving North according to the owner's judgement, should pick up the ore which has a dip of 62 degrees southwesterly.

✓ COPPER HILL GROUP (Continued)

The molybdenite ores encountered lie in two wide parallel brecciated zones, highly silicified, and separated by about 70 feet of barren ground. One of these is represented by a strong quartz outcropping on Copper Hill, but becomes diffused in the breccia zone beneath. These comprise the ore bodies encountered on the 130 foot level and above. One particularly rich body of ore, 5 to 9 feet wide, averaging $5\frac{1}{2}$ feet at the 130 foot level, has averaged 5% MoS₂ and better; another, a "gouge", about 12 feet wide, containing lumps of nearly pure-quill molybdenite, with a fine dissemination of molybdenite all through, is said to run 0.75 -- 1.00% MoS₂; and an 85 foot ledge and another 100 feet wide encountered, running in selected lots 1% MoS₂.

Of 1800 tons of ore mined for its molybdenite content between 1916 and 1918, 7 car lots of 300 tons are said to have averaged 5% MoS₂; that the balance ran 1.5% to 2% MoS₂ -- and in gold at the old price \$2, in silver 3 oz., in copper 2 and $2\frac{1}{2}$ %.

Records of 2 car load lots of high grade, selected at random from Mr. Jackson's notes, ran as follows: $42\frac{1}{2}$ tons, MoS₂ 6.6% Au \$2.70 (old price), Ag 2.7 oz., and copper 3.6%; and another $42\frac{1}{2}$ tons, MoS₂ 5.5%, Au \$3.06, Ag 5 oz., and ✓ copper 2.8%.

The general average of gold and silver of all ore shipped is said to have been \$2.00 gold (old price) and 3 oz. silver.

A large tonnage in the dump from the workings, probably represents in large part rejects from shipments, samples are said to have assayed 0.50% MoS₂ and to have run about the usual amount in gold and silver.

The drift tunnel under Copper Hill is 290 feet deep -- its direction a little West of North. A light weathering granite exposed in the sides of the open cut leading to its portal is stained yellow with molybdic ochre, or molybdite. About 125 feet in is an inclined Winze 30 feet deep, dipping a little South of East; and just beyond this is a 150 ft. crosscut, running roughly northeast--backs probably reach 60 to 70 feet. All are in ore; some molybdenite remains, but has largely changed to molybdite, and copper sulphide occasionally found in tighter ground has almost completely given place to its oxidation products.

From the extent to which this oxidized capping has been opened up, it may be assumed to overlie a very large body of molybdenum sulphides.

Much of the dump from this working has been washed away by flash-floods which from time to time sweep down the wash along the base.

A study of ores from these drifts and dumps shows the molybdenite to occur in a lattice work of quartz veins, as selvages in fractures, interstitial matter in breccias and as disseminations in the granite mass itself.

A few shallow drillings at chosen points on this property should prove a great value.