

ANACONDA COPPER MINING CO.

C O P Y

April 26, 1939.

Mr. Seth K. Droubay,  
Walkermina,  
Plumas County, Calif.

Dear Mr. Droubay:

I received your letter of April 21st with geological sketches showing recent advances made in 471-C drift and 904-B drift in the Walker Mine, also copy of recommendation No. 22, and three tabulations of available ore reserves in the mine on February 1st, March 1st and April 1st.

I note the following monthly decreases in ore reserves to be:

During January	22,399	Tons
" February	22,599	"
" March	5,994	"

which, on April 1st leaves a total reserve of 1,338,922 tons, averaging 1.27% copper.

I concur with your suggestion to drive 471-C drift southwesterly beyond 559-B mine on the extension of 712 Ore zone, in preference to drifting on the weaker vein structure exposed in the southwest faces on the 500 and 600 levels. Last summer, Mr. Kildale and I traversed the surface above this mineralized zone and concluded that it would be desirable to drift some distance to the southwest towards a plug of diorite porphyry, which terminates a highly silicified, iron-stained, sheared zone that cuts across the schist. The porphyry plug is approximately 1600 feet, S. 50° W. from the face of 471-C drift.

I also note that Recommendation No. 22 proposes a plan for the normal development on the 900 level of the downward projection of the south

ANACONDA COPPER MINING CO.

Mr. Seth K. Crosby--2 COPY April 26, 1939.

portion of the Piute orebody. This proposed work should make available a considerable tonnage of ore.

I find that our maps do not show the position of diamond drill hole No. 10, drilled from the surface and in the area north of the Piute orebody. Did this hole cut any mineralization? Judging from the north-west strike of the northernmost ore found in 904-B north drift, it may be advisable to soon turn a crosscut to the west from the north face of the drift to test the possibility of the vein structure extending in that direction.

I am glad to know that Virgil Chamberlain is rendering good work.

Yours very truly,

MHR:EM

cc: Messrs. Kelley  
Weed  
Sales (Inc. sketches and  
Lyon Apr. 1, ore reserve  
Dugan Statement).

M. H. GIBEL

( COPY )

WALKER MINING COMPANY  
WALKERMINE  
PLUMAS COUNTY, CALIF.

April 21, 1939.

Mr. M. H. Gidel, Asst. Chief Geologist  
Anaconda Copper Mining Company  
Butte, Montana

Dear Sir:

Please find enclosed several geological sketches that may be of interest to you, a copy of recommendation #22 as submitted to Mr. Lyon and Mr. Dugan for approval and the last three monthly tabulations of our available ore reserves which should bring up to date the set I had been sending to Mr. Sales from time to time.

The composite sketch and section of the 517 footwall fissure zone of the 712 Orebody gives a picture of development to date. 619E has been stopped for the time being. Mineralization was so weak and scattered, that it seemed wiser to see what the extension of 471C beyond 559B raise would bring. Although we have ample information and mineralization to warrant a raise being driven, in preparation of mining ground under the 500 level, we may have to extend 654 ExcNW to determine whether the vein steepens or pinches below the 500 level.

The 904B DN from the Piute Orebody is well under way. We are out of the grey, sheared fissile schist and into a more crystalline formation. It may be wise to extend a crosscut to the footwall slip to be sure we do not get too far away from it.

If 904B is continued on its present course for 600 feet it will be 500 feet in the hanging wall of the ground explored by surface diamond drill hole #10.

Recommendation #22 gives a general picture of how the ore along the Piute 800 Level pinches to the south. Although it is questionable whether strong mineralization will extend to the 900 Level, there will be a substantial tonnage of ore to be mined from below the 800.

Vergil Chamberlain is getting along very nicely.

Very truly yours,

(Sd.) SMITH K. DROUBAY

SW

April 25, 1939

Mr. J. F. Dugan  
General Superintendent of Mines  
International Smelting and Refining Company  
O f f i c e s

Dear Sir:

Development recommendation No. 22 for the Walker mine, as submitted by Mr. Droubay, has been received and after consultation with Mr. Lyon has been approved by this department.

This recommendation calls for the extension of 903 B drift south in the Piute ore body for a distance of approximately 400 feet. Its purpose is to develop the south end of the Piute ore body under 886 drift south. Although the mineralization in the present face of 903 B drift south is low-grade, the ore extended in 886 drift for a distance of approximately 400 feet beyond this point. Thus there is certain to be some stoping ground in this area between the 800 and 900 levels and the ore may again come down to the 900 level ahead of the present face of 903 B drift. Thus the carrying out of this recommendation should add to the assured ore reserves and will open up another stoping area in the Piute ore body.

Very truly yours,

MBK:P

M. B. Kildale

**WALKER MINING COMPANY****WALKERMINE****PLUMAS COUNTY, CALIFORNIA****L. F. BAYER, MANAGER**

April 20, 1939

Mr. Tom Lyon, Chief Geologist  
International Smelting & Refining Co.  
818 Kearns Building  
Salt Lake City, Utah

Dear Tom:

Please find enclosed the geological sketches of development during the first half of April also recommendation #22 with regards to extending 903B DS of the Piute Orebody.

We have stopped 619ExcW because the mineralization is so weak, and because it has been extended far enough to allow for a raise that will enable us to mine the ore below 517 Stope. It may be better to explore the extension of this fissure zone on the 500 or 400 foot levels where the vein is much stronger. We will continue 471C along the vein beyond 559B raise.

The 904B DN was extended 36 feet and has passed from the grey, sheared fissile schist into a more crystalline formation. It will probably be wise to extend a crosscut to the footwall slip to be sure we do not get too far away from it. If we try to follow the slip, the drift is run crooked, and has to be timbered.

Mr. Bayer has informed me that he must receive an OK from the Mining Department in Salt Lake before any new development project is started.. I will submit copies of such recommendations to you and to Mr. Dugan, including the estimated cost, and the approval or rejection could be sent in by letter making reference to the recommendation number. I will assume that any approved recommendation received by Mr. Bayer has had your OK.

Very truly yours,



S. K. Droubay

SW

## WALKER MINING COMPANY

WALKERMINE  
PLUMAS COUNTY, CALIFORNIA

April 14, 1939

L. F. BAYER, MANAGER

Mr. Tom Lyon  
Chief Geologist  
Salt Lake City, Utah

Dear Sir:

With reference to the proposed development program for Walkermine submitted March 1, 1937, and to your letter of approval of March 31, 1937 (copies of which were sent to Mr. Dugan and Mr. Bayer), I wish to report the stage of each of the 23 proposals as of April 1, 1939.

<u>Not Started</u>	<u>Finished</u>	<u>Started, Then Stopped</u>	<u>Going</u>	<u>Remarks</u>
		1 *		Pending profitable operation of 775 Stope, Margin \$1.40 to mine
		2		700A Winze not running. Work to be run from South Orebody
3				700A Winze not running
4				" " " "
5				No water for upper South Orebody
6 *				700A Winze not running
7				Soon to be started along 1200 Level
9		8		Stopped in favor of diamond drill holes
		10		No hoist in central shaft
			11	Soon to be continued
			12	930B will be extended. 904 is in waste
				675E, 467C & 706E are being run
14		13 *		Raise in low-grade ore, should be finished
	15			Inaccessible at present. May soon be explored
	17	16		Should be going
	18			
	19			
	20			Being stoped
	21			
			22	Long range to north going. South soon to be started.
23				Waiting for results on 900 Level.

\*Grade of expected ore and cost of mining unattractive at current metal prices

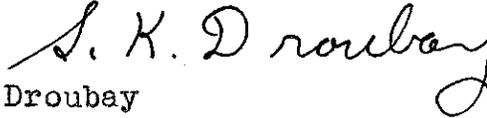
Mr. Tom Lyon

-2-

April 14, 1939

Development progress reports sent in each month have made reference to the development program, and each project completed has developed enough ore, or given ample information to justify the expense in running it.

Respectfully submitted,



S. K. Droubay

cc-Mr. J. F. Dugan  
cc-Mr. L. F. Bayer

# WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

L. F. BAYER, MANAGER

January 25, 1939

Mr. Tom Lyon  
Chief Geologist  
818 Kearns Bldg.  
Salt Lake City, Utah

Dear Tom:

Please find enclosed four recommendations for development work at Walker Mine. These have been more or less under consideration for some time, and now that the mine will soon be in condition to have this work started, I have drawn up the 200 scale sketches.

As the No. 1 hanging wall fault steepens below the 1000 level, being 70° between the 1000 and 1100 levels, it is questionable just how it will act to the north and south. Recommendations No. 15 and No. 16 were drawn up by projecting structure to the 1200 level and making it fit the known position of the fault at 706 winze.

Recommendations No. 17 and No. 18 have to do with Piute. No. 18 is to prospect for ore north of our present extreme exposures of mineralization as recommended by Mr. Sales in his letter of October 27, 1937, a copy of which was sent to you. The slip coming in from the northeast just ahead of the present face is projected down from the 600, 700 and 800 levels. It may be well to prospect back through this from a point several hundred feet ahead if no mineral is found in the zone indicated. No. 17 is to keep the 800 level from taking off on an east split, as happened on the 700 and 600 levels. It looks as though we are at the end of our commercial ore here, but we should continue going south as long as we are able to drift on ore. When this fails, any further prospecting could be done from the 700, where the level is not so congested for handling waste. We have located hanging wall with +50° raises, which cost much less to run than do crosscuts.

All copies of the annual ore reserves were sent to you, and the additional long section that you requested will be sent in as soon as Ed Broadwater can finish making it up.

In the past, Mr. Sales requested that I keep him posted on our development work here. He wrote me on January 6th that he was going to South America and that in communicating geological matters to you I should send a copy of the letters and maps to Mr. Gidel at Butte. I will also send Mr. Dugan a copy of the recommendation maps, and tell him they are subject to your approval.

ANACONDA COPPER MINING CO.

C O P Y

Jan. 17, 1939.

Mr. S. K. Droubay,  
Walker Mine,  
Plumas County, Calif.

Dear Sir:

On my recent trip to New York City, Mr. Sales handed me your letter of December 21, 1938, in which you summarized the results of prospecting done at the Walker Mine on the several recommendations for development that were submitted last summer. So far the work has apparently found nothing of importance, the most encouragement being indicated by the possibility of finding some ore in future advance in 619 E Crosscut beyond the small seams of chalcopyrite and bornite then exposed in the face.

A few days ago, I reviewed the development situation at the Walker with Mr. Lyon. We are hopeful that the drifting as planned on the bottom of 1200 level, will find a good grade and width of ore in the North crebody beneath that showing on the 1000 level at points 600 to 1200 feet northwest of the shaft.

I also wish to acknowledge receipt of a copy of the Table of Ore Reserves at the Walker Mine, dated December 1st, to January 1st, 1939, which you addressed to Mr. Reno H. Sales at this office.

Yours very truly,

MHC:KDM

CC: Messrs. Hobbins  
Sales  
Weed ✓  
Lyon ✓

M. H. GIBEL

# ANACONDA COPPER MINING COMPANY

Butte, Montana

Geological Department  
RENO H. SALES, Chief Geologist  
M. H. GIDEL, Asst. Chief Geologist



New York, N. Y.  
January 5, 1939

Mr. Tom Lyon,  
820 Kearns Building,  
Salt Lake City, Utah.

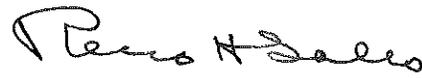
Dear Tom:

Weed, Gidel and I have discussed the Walker situation. We agreed that the 1200 level should be extended to the north as rapidly as possible, and you are authorized to go ahead with that development. As I understand it, the shaft is filled with water to a distance below the 1100.

I think a little study is necessary on the matter of the location of the north work on the 1200; that is, as to whether we should first pick up the vein and drift on it, or lay out a lateral on lines in order to reach our main objective as quickly as possible. Speed is the essence of the thing and I think the manner of doing the work is for you, Dugan and the mine management at the Walker to decide.

Incidentally, it is surprising that our Walker maps and sections do not show that the shaft is down to the 1200 level.

Yours very truly,

  
RENO H. SALES

RHS:D

CC - Messrs. C. E. Weed  
J. F. Dugan

# ANACONDA COPPER MINING COMPANY

Butte, Montana

Geological Department  
RENO H. SALES, Chief Geologist  
M. H. GIDEL, Asst. Chief Geologist



AIR MAIL

New York, N. Y.  
December 17, 1938.

Mr. Tom Lyon,  
820 Kearns Building,  
Salt Lake City, Utah.

Dear Tom:

We have considered the Walker Mine development proposals. For the present, we approve the hanging wall crosscut on the 1000 foot level to be driven from 1017 Drift at a point just to the north of coordinate 15800 and as indicated on Droubay's map in green color.

We think this work should be started immediately.

As to other development proposed by Droubay, this matter will be given further consideration. For the present, however, we do not approve of the work on or from the 1100 foot level as outlined by Droubay.

Very truly yours,

RENO H. SALES

RHS:F  
CC: Mr. C. E. Weed.

INTER-DEPARTMENTAL CORRESPONDENCE

## MINING DEPARTMENT

## INTERNATIONAL SMELTING AND REFINING COMPANY

818 KEARNS BUILDING

SALT LAKE CITY, UTAH

SUBJECT:

December 19, 1938

AIR MAIL - SPECIAL DELIVERY

Mr. C. E. Weed, General Manager of Mines,  
Anaconda Copper Mining Company,  
25 Broadway, Room 1726,  
New York City.

Dear Sir:

Tom Lyon received a letter today from Reno Sales regarding Walker development.

Mr. Sales said that both of you had approved the hanging wall crosscut, on the 1000 foot level to be driven from 1017 D, at a point just to the north of coordinate 15,800, and as indicated on Droubay's map in green color.

We also said that you did not approve the work on or from the 1100 foot level as outlined by Droubay.

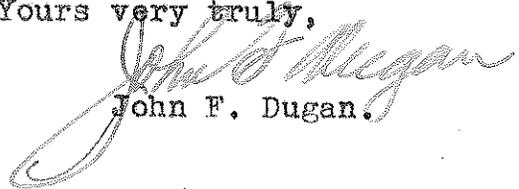
The crosscut just north of the 15,800 coordinate was laid out primarily for a diamond drill setup to prospect the downward projection of the ore body.

Mr. Lyon and myself are in somewhat of a quandry, as Mr. Sales did not say in his letter whether or not you intended to do any drilling.

If no drilling is contemplated, there is no use crosscutting at this particular point.

Will you please advise.

Yours very truly,

  
John F. Dugan.

JFD:H  
CC: TL.

Original to you by airmail.

ANACONDA COPPER MINING CO.

C O P Y

Aug. 17, 1938.

Mr. C. E. Weed,  
Manager of Mines,  
Building.

Dear Sir:

The development recommendations for the Walker Mine decided upon yesterday in the conference at which you, Mr. Gidel and myself were present, are listed below in order of preference:

- (1) Eighth Level - Continue 818A Drift northerly on Piute Vein
- (2) Eighth Level - Continue 886 Drift south on Piute Vein.
- (3) Sixth Level - Continue 619 Drift southwest.
- (4) Third Level - Continue 353B Drift northwesterly on Main Vein.  
This recommendation is subject to a further study of details and to conditions in 460 stope.
- (5) Seventh Level- Drift northerly on vein disclosed in 743 Crosscut.
- (6) Tenth Level - Continue 1017 Lateral 200 feet northwesterly on present course, then crosscut north 70° east through projection of 712 orebody.

Of the other recommendation in Gidel's memorandum of July 22nd, we eliminated the proposal to crosscut north 60° east from 712 Drift at a point 380 feet southeast of 706A Winze.

As to the remaining recommendations covered by Mr. Gidel's memorandum, these are to be carried out in order of convenience to the mine operation.

It is further suggested that at such time as the Ninth Level of the Piute is unwatered, Drift 904B North be extended in preference to the

ANACONDA COPPER MINING CO.

Mr. C. E. Weed **C O P Y** Aug. 17, 1936.

proposed footwall crosscut, as given in Gidel's memorandum.

Yours very truly,

RENO H. SALES

RHS:KM  
cc:Mr. T. Lyon

# ANACONDA COPPER MINING COMPANY

RENO H. SALES, CHIEF GEOLOGIST  
M. H. GIDEL, ASSISTANT CHIEF GEOLOGIST



BUTTE, MONTANA

GEOLOGICAL DEPARTMENT

Aug. 10, 1938.

Mr. Tom Lyon,  
820 Kearns Bldg.,  
Salt Lake City, Utah.

Dear Tom:

Mr. Gidel has handed me a memorandum dated July 22nd, covering certain recommendations for development in the Walker Mine.

I have gone over this list carefully and wish to make the following suggestions as to this program. I will take up the recommendations in order:

## THIRD LEVEL.

I doubt the advisability of extending Drift 363-B northerly. It should not be done in any case without a thorough review of the information we now have on the 460 stope operation and on 363-B Drift itself. Unless 460 stope caved, I see no reason why it should not have continued up to above the Third Level. We should be reasonably sure that the 300 is not at or near the oxidized zone, in which case there might be little or no tonnage above that level. If a careful study of the record seems to justify the work, I will certainly approve it.

## SIXTH LEVEL.

The continuation of 619 Drift southwesterly on the vein disclosed in 517-B Drift, is probably good prospecting. I have mapped 517-B Drift carefully and I seriously doubt whether the extension of 619 Drift will block out any ore. I got a very poor impression of that vein on the 500,

Mr. Tom Lyon--2

Aug. 10, 1938.

but there is a chance that the 600 will be better, and, if it does show up favorably, the workings should be continued out into new country as long as there is something worth while to follow.

In any case, should the 619 find ore, a raise will be necessary to the 500 before a stope can be started.

SEVENTH LEVEL.

As to that first recommendation, I do not see why it would not be better to drift northerly on the ore streak shown in the east crosscut. If the vein is worth anything, the ore recovered might help to pay the expense of development. From my knowledge of the geology, I do not have much hope that this piece of work will find enough ore for a stope.

I cannot approve the second recommendation, because a drill hole was run crosscutting this same ground at a point less than 150 feet north of the proposed crosscut location. It found no ore. Furthermore, 6 sub-level drift followed the ore from the south until it became too low grade to justify further drifting.

I cannot see much chance for success in the next recommendation, which is a crosscut easterly from 712, 400 feet north of 706-A Winze, but the reported ore showing in Drill Hole No. 8 may be better than I think it is.

I agree that 765-A Drift southeasterly on the east branch of the Piute Vein is good prospecting. A crosscut drill hole farther to the south did not show up anything worth while, but I think we should have a working out into that hangingwall country somewhere in the 765-A Drift, which will enable us to really learn what happens to the Piute zone going south.

I have little or no hope that your last recommendation for the Seventh Level will find anything worth drifting on, but it will settle for

Mr. Tom Lyon---3

Aug. 10, 1938.

all time whether or not there is a continuing branch northerly under the Piute workings.

EIGHTH LEVEL.

I agree that 818-A Drift should be continued northerly on the Piute Vein until the supposed fault is reached, and that if a cut-off is found the working should be extended through the fault. Because of the nearness of the oxidized zone, I cannot subscribe to a further search for the faulted end of the Piute Vein, if there be one, at the elevation of the 800. This exploratory work should be left for the 900, at which level, should the vein be found to extend northerly, we would be able to develop some tonnage, assuming the oxidized zone does not go lower than we anticipate. I feel that whatever we may do on the 800 north of the fault, we will have to duplicate anyhow at the 900.

TENTH LEVEL.

We are naturally forced to continue 1017 Lateral northerly with crosscuts at intervals, as suggested in your first recommendation for this level. I must say that the Tenth Level country thus far opened up in this 712 area has been extremely disappointing.

Your recommendation No. 2 for the Tenth Level is probably all right, but I do not see why a crosscut should be for more than 100 feet as a maximum.

In addition to the above recommendations, I would like to suggest another, which perhaps comes more nearly under the head of general development. I think we should plan to either drill into the footwall

Mr. Tom Lyon---4

Aug. 10, 1938.

country under the above-mentioned 517-A and 619 drifts at the Tenth Level, or preferably extend 1055-B crosscut. This with the hopes that the southwest striking zone may have strength and that it might develop more favorably at greater depths. No doubt, the extension of 1017 Lateral plus the crosscuts therefrom, will keep the 1000 busy, but in such a case we should plan to do the drilling just suggested at any time we happen to have a diamond drill crew on the ground.

Yours very truly,

RHS:KM  
cc: Messrs. Weed  
Gidel  
Dugan

*Paul H. Sells*

# WALKER MINING COMPANY

SPRING GARDEN  
PLUMAS COUNTY, CALIFORNIA

H. R. TUNNELL, MANAGER

May 24th, 1926

Mr. Paul Billingsley, Chief Geologist  
620 Kearns Building  
Salt Lake City, Utah.

Dear Sir:

Subject to your approval we are starting a crosscut west from the present face of 699 Drift North. This crosscut~~the~~ the proposed diamond drill holes will explore the vein under the north outcrop. Please send me a copy of the long section showing the blocks in the vein designated by letters.

The two pilot raises agreed upon are being driven and cut samples will be reported later.

I was sorry to hear you had more trouble on the Portola read after I deserted you, but hope you did not suffer any ill effects from the exposure.

Very truly, yours,

H. R. Tunnell, Manager.

By, *C. Fisher*  
Secretary to Manager.

HRT:CEF

Western Union

39

# COPY OF TELEGRAM

June 1, 1926.

Straight Message.

Mr. H. R. Tunnell, Mgr.,  
Walker Mining Company,  
Spring Garden, California.

Discontinue hole "D" location of holes from surface approved.

Paul Billingsley.

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39

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# WESTERN UNION

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NEWCOMB CARLTON, PRESIDENT

J. C. WILLEVER, FIRST VICE-PRESIDENT

The filing time as shown in the date line on full-rate telegrams and day letters, and the time of receipt at destination as shown on all messages, is STANDARD TIME.

Received at 278 Main St., Clift Building, Salt Lake City, Utah.

FA150 58 NL

SPRING GARDEN CALIF 31

PAUL BILLINGSLEY

486

620 KEARNS BLDG SALT LAKE CITY UTAH

1926 MAY 31 PM 9 12

HOLE D HAS REACHED A DEPTH OF FOURTEEN HUNDRED AND TWENTY FEET WITHOUT CHANGE OF GROUND AND MR DALY AGREES TO DISCONTINUE IF YOU APPROVE STOP CONFIRM LOCATION OF HOLES ON SURFACE AT COORDINANCE ONE SEVEN ONE THREE NAUGHT NORTH AND ONE NAUGHT ONE ONE FIVE EAST STOP SOUTH SIXTY DEGREES WEST DOWN FORTY DEGREES AND SEVENTY DEGREES

H R TUNNELL.

10 115

## COPY OF TELEGRAM

April 16, 1926

H. R. Tunnell  
Walker Mine  
Spring Garden, California

I learned from Butte that Daly wants Hole D extended to one thousand feet total stop I see no objection to complying with his wish in this matter

Paul Billingsley

## COPY OF TELEGRAM

April 14, 1926

H. R. Tunnel  
Walker Mine  
Spring Garden, California

You may stop Hole D and move to new set up

Paul Billingley

## COPY OF TELEGRAM

April 5, 1926

Paul Billingsley  
care International Smelting Company  
Rico, Colorado

DEARRIBTA WIRES FROM SPRING GARDEN QUOTE HOLE D GRANITE  
FROM ONE HUNDRED NINETY ONE HUNDRED NINETYSEVEN PLEASE  
ADVISE AT ONCE QUOTE

Nell E. Proece

# COPY OF TELEGRAM

March 31, 1926

H. H. Turnell  
Walker Mine  
Spring Garden, Calif.

All right to move hole B south of dike stop  
Will not be necessary deepen hole A

Paul Billingsley

MINING COMPANY  
SPRING GARDEN  
PLUMAS COUNTY, CALIFORNIA

H. R. TUNNELL, MANAGER

September 22, 1925.

Mr. Tom Lyons, Geologist,  
International Smelting Company,  
821 Kearns Bldg.,  
Salt Lake City, Utah.

Dear Tom:-

Enclosed find blue print showing the location of vein cut by Crosscut West No. 647s, Drifts Nos. 629As and 630As and proposed exploration work on the vein.

Please let me have recommendations to develop this vein. We propose drifting on the sub level and exploring the vein by crosscuts as shown. After sufficient work has been done on the sub level to prove the value of the ore body, we propose crosscuts on the sixth and fifth levels as shown by the sketch.

The location of the crosscuts on the haulage level will depend on what is shown by development work on the sub level. I think it would be well for you to come out as soon as you can and give me your opinion about this proposed work as well as make an examination of Block No. 2 North.

The grade of ore cut by Crosscut West No. 647s is very encouraging but individual samples have shown considerable variation.

We are driving Drift North No. 628As in advance of the haulage level. I am enclosing a blue print of this work and would like to have recommendations for drifting north on the haulage level.

With kindest personal regards, I am,

Yours very truly,

  
\_\_\_\_\_  
Manager.

HRT: J T

Encls.

# WALKER MINING COMPANY

SPRING GARDEN

PLUMAS COUNTY, CALIFORNIA

H. R. TUNNELL, MANAGER

October 2, 1925.

Mr. Tom Lyon, Geologist,  
International Smelting Company,  
821 Kearns Bldg.,  
Salt Lake City, Utah.

Dear Tom:-

I wish to acknowledge the receipt  
of your letter under date of Sept. 29th, 1925, authorizing  
a drift north and south on the ore disclosed by Crosscut  
West No. 647s.

I am glad to hear that Mr. Billingsley  
has returned to Salt Lake, and will meet him if he comes  
in by way of Portola.

With kindest personal regards, I am,

Yours very truly,

  
\_\_\_\_\_  
Manager.

HRT:JT

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September 29, 1925

Mr. H. R. Tunnel, Manager  
Walker Mining Company  
Spring Garden, Calif.

Dear Sir:

I received the blue prints and your letter of  
September 22nd.

Mr. Billingsley is now back and will visit the  
Walker mine next week and will take up the matter of  
development work at that time.

During the interval you are authorized to drift  
north and south on the ore disclosed by crosscut 647 S.  
Crosscutting will be recommended by Mr. Billingsley.

Kindest personal regards,

Very truly yours,

TL/P

Tom Lyon

August 28, 1925

Mr. H. R. Funnell, Manager  
Walker Mining Company  
Spring Garden, Calif.

Dear Bert:

By this time you have had my letter of August 25th regarding the development work proposed by you.

I think that letter will give you authority to proceed with the winzes as you are able. Crosscutting east and west at the north end of the property may proceed when the north drift on the six hundred has advanced far enough to be beneath the central portion of the large mineralized area exposed on the surface.

I am leaving for Colorado Monday and expect to be gone about ten days. I will visit the Walker as soon as I return or about the middle of September.

With kindest personal regards,

Very truly yours,

TL/P

Tom Lyon

August 25, 1925

Mr. H. R. Tunnell, Manager  
Walker Mining Company  
Spring Garden, Calif.

Dear Bert:

I have your letter of August 19th regarding the proposed development work. I have already written Mr. Wraith suggesting that this work be deferred until you are in shape to do it, that is until the North ore body is in shape to produce 400 tons per day.

Regarding crosscutting at the north end of the six hundred, I would prefer to wait until the drift had reached a point beneath the best part of the prominent outcrop on the hill. If we should crosscut now I feel sure that we will be forced to duplicate the work later when the drift reaches that point. I think that one long crosscut both east and west should be enough.

The south end should be crosscut west using the crosscut from the top of the southern most raise and continuing it until it is well beyond any possibility indicated by the present work. A crosscut should be driven west from the five hundred using the empty stope for water.

The location for winzes that you have selected are satisfactory. I think, however, that the work should all be

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2- Mr. H. R. Tunnell

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done in the vein. The water problem should not be worse in the vein than in the schist as one is as porous as the other and the only water that should be expected would come from cracks or faults which are liable to occur in either the vein or schist.

Very truly yours,

TL/P

Tom Lyon

CC: Mr. Wraith

COPY

July 20th, 1925

B. B. Thayer, Esq.,  
25 Broadway, New York.

Dear Sir:

I visited the Walker Mine on June 29th and 30th. There are a few suggestions relative to present developments, and also as to possible plans for the future.

Of the work now going on I advise that drift 600-A should be discontinued, as it is being extended into territory which showed no ore on the 600 level.

Also that work should be pushed as rapidly as possible north from 767 raise to develop the better grade ore shown in 687 drift. I think it is quite desirable that we make a strong effort to develop this better grade ore as rapidly as possible, because the main orebody grade is not running as high as anticipated.

As to future developments, there are four possibilities in the way of development which might find ore, and I will consider these briefly.

1. The extreme north end development on the 600 level is not showing favorable results. It cannot be said with certainty that the present drift is following the main vein disclosed at the surface. Before proceeding much farther north, unless the ore improves in the present drift, I think crosscuts should be run easterly and westerly to make sure that we are under the best outcrop shown.

2. There are one or more veins in the foot wall of the main Walker vein and parallel to it. This was disclosed in the old survey crosscut tunnel and also in the main adit tunnel and in one or more drill holes driven at a former time. These veins are low grade and I do not feel they present anything favorable as to ore prospects, and I think should be prospected only as a last resort.

There are no indications of veins either on the surface or underground, in the hanging wall of the Walker. Prospecting in that direction is therefore an entirely unknown territory. Possibly two diamond drill holes would determine the existence or nonexistence of hanging wall veins.

3. It is confidently expected that the Walker vein will be cut off by the large body of granite disclosed in the main adit, but it is quite impossible to estimate how far south this cut-off may be found in the present main level drift on the 700. The vein is almost entirely pinched out at the present south face, but there is a stronger footwall south of the vein which, although low grade, has not been sufficiently prospected. This south section presents a fair possibility but the prospects are not especially encouraging.

4. In my judgment the most desirable thing to do is to sink on the main vein to determine its possibilities in depth. For this purpose a shaft or winze should be sunk at least 200 feet at a point approximately 100 feet south of the old inclined shaft. The southerly part of the orebody, that is, lying to the south of the point where the main adit intersects the vein, should be explored on deeper levels. It is a matter of operating judgment as to

B.B.T. # 3

whether one winze or shaft would answer for the exploration of both the main orebody and the south orebody, or whether two winzes should be sunk for that purpose. Apparently there is a rather strong stretch of barren ground between these two ore shoots, and it might be cheaper and more satisfactory to sink two shafts or winzes.

I feel that it is quite urgent that in view of the ore showings in the mine at the present time one or more of these plans of development should be undertaken at an early date. In my own opinion the work of developing the 200 foot level below the main orebody should be the first work; as to the order in which these various pieces of work should be carried out subsequently, it is a matter to be determined from time to time.

Yours very truly,

RENO M. SALAS.

B.

Copy Wm. Wraith- J.O. Elton

## WALKER MINING COMPANY

SPRING GARDEN

PLUMAS COUNTY, CALIFORNIA

I. L. GRENINGER, MANAGER

May 21, 1925.

Mr. Wm. Wreith,  
Vice President,  
Walker Mining Company,  
Room 1825, 25 Broadway,  
New York, N. Y.

Dear Sir:-

We have reached the following conclusions regarding the development work to be done on the north ore body. The work as we have planned it will determine the grade and tonnages as well as partially prepare for subsequent stoping.

Two prints are inclosed which indicate the position of the sub level and crosscuts, of course as the work progresses the position will be changed somewhat to suit the conditions encountered. The plan of the 700 shows the position of the raises which will hole the exploratory crosscuts from the sub level.

The results of the prospecting on the sub level to date have been somewhat encouraging as the average assay of all openings on the vein is 2.67% copper.

The actual plans in detail are as follows:-

Extend 677s drift north and 679s drift south until a connection is made. Crosscut at intervals of 50 feet as indicated on the inclosed plan of the sub level. This work will establish the southern margin of the north ore body. A raise will be started at this point and carried to the 300 level.

Extend 678s drift north with crosscuts at 50 foot intervals until the northern margin of the ore is reached.

From the 700 level raise every 50 feet to hole the crosscuts on the sub level will be driven as indicated on the inclosed plan of this level.

The 300 level cannot be extended north until at least one raise is completed from the 700 level.

While the grade of ore exposed in the present openings on the sub level is to be considered very good for this portion of the mine, subsequent openings may be considerable lower, but we hope the entire mass will average 2% as indicated by the 600.

Very truly yours,

*A. K. Tammes*  
*Tom Lyon* ✓

CC Mr. Tunnell,  
CC Mr. R. H. Sales,