

December 26, 1939

Mr. S. K. Droubay
Walker Mining Company
Walkermine, California

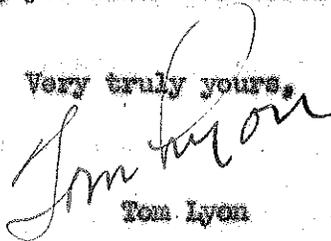
Dear Red:

I am in receipt of your letter of December 22 regarding development work on the 600 level.

On Mr. Dugan's copy of this letter there is a note by Mr. Hartmann in which he states that both he and Mr. Warren approve doing the work in the manner that you suggested. I have talked the matter over with Mr. Dugan and we both agree that for operating reasons it will probably be better to do the work as outlined in your recommendation No. 21.

If Mr. Sales has any reasons for asking you to do the work as he originally suggested, you will hear directly from him.

Very truly yours,



Tom Lyon

TL:P

CC: Mr. Sales
Mr. Dugan

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

H. M. HARTMANN, MANAGER

December 22, 1939

Walker Mine

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

Dear Tom:

Since diamond drill Holes No. 36 and 37 have proven that the footwall vein exists as far south as the 712 main Orebody, it appears to be more logical to develop it on the 800 Level from 692E to W than from 662E as Mr. Sales recommended a couple months ago. Either case would necessitate a certain amount of work in waste, but 692E affords a short tram and service directly from the shaft, while all work done from the other side necessitates climbing from the 700 Level. Also, we would like to open up the ore that was cut in 692E.

Very truly yours,

S. K. Droubay

SKD:SW

S. K. Droubay

cc - Mr. Sales ✓
Mr. Dugan

| CLASS OF SERVICE DESIRED | |
|--------------------------|----------------|
| DOMESTIC | CABLE |
| TELEGRAM | FULL RATE |
| DAY LETTER | DEFERRED |
| NIGHT MESSAGE | NIGHT LETTER |
| NIGHT LETTER | SHIP RADIOGRAM |

Patrons should check class of service desired; otherwise message will be transmitted as a full-rate communication.

COPY OF WESTERN UNION TELEGRAM

CHARGE ANACONDA COPPER MINING COMPANY GEOLOGICAL DEPT

NOVEMBER 16, 1939.

S. K. DROUBAY
WALKERMINE CALIFORNIA
VIA SPRING GARDEN.

APPROVE DRILLING RECOMMENDATIONS YOUR TELEGRAM OF NOVEMBER FOURTEENTH. SUGGEST HOLE NEXT SOUTH OF NUMBER THIRTY ONE BE LAID OUT TO CUT VEIN APPROXIMATELY TWO HUNDRED FEET SOUTH OF WHERE CUT IN THIRTY ONE. SEND SOME CROSSSECTIONS SHOWING DRILL HOLES AND ILLUSTRATING GEOLOGY FIVE SEVENTEEN VEIN FOURTH LEVEL TO TEN.

REMO H. SALES

CC: C. E. WEED ✓
J. F. DUGAN
T. LYON

SYMBOLS OF SERVICE
 This is a full-rate telegram or Cablegram unless its deferred character is indicated by a suitable symbol above or preceding the address.

WESTERN UNION

1220

| SYMBOLS |
|--------------------------|
| DL = Day Letter |
| NL = Night Letter |
| LC = Deferred Cable |
| NLT = Cable Night Letter |
| Ship Radiogram |

R. B. WHITE
 PRESIDENT

NEWCOMB CARLTON
 CHAIRMAN OF THE BOARD

J. C. WILLEVER
 FIRST VICE-PRESIDENT

The filing time shown in the date line on telegrams and day letters is STANDARD TIME at point of origin. Time of receipt is STANDARD TIME at point of destination

KHA203 83 3 EXTRA NT=WALKERMINE CALIF VIA BUTTE MONT 14
 RENO H SALES=
 25 BROADWAY ST ROOM 1726 NYK=

SECOND SURFACE HOLE LOST AT FOUR NINETEEN DRILLERS IDLE
 SHALL WE START NEW HOLE AND TAKE CHANCES ON SNOWING IN
 EQUIPMENT STOP REFER TO SKETCH AIR MAILED NOV 11TH STOP
 HOLE 31 CUT MINERALIZATION ONE NINETY TO TWO HUNDRED TWO
 FEET NOT THROUGH VEIN STOP WOULD LIKE PERMISSION TO EXTEND
 HOLE 29 ALSO A HOLE SOUTH OF NO 31 ALSO DRILL A HOLE
 WEST FROM SEVEN HUNDRED SUB LEVEL NEAR HOIST ROOM TO
 JUSTIFY HAWLAGE FROM THIS END. WIRED LYONS=
 R K DROU.

3. call JFD TL

31 29 31. HAWLAGE CFND TO US.

| CLASS OF SERVICE DESIRED | |
|--------------------------|----------------|
| DOMESTIC | CABLE |
| TELEGRAM | ORDINARY |
| DAY LETTER | URGENT RATE |
| NIGHT LETTER | DEFERRED |
| SPECIAL SERVICE | NIGHT LETTER |
| | SHIP RADIOGRAM |

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COPY OF WESTERN UNION TELEGRAM

Walker

DL

AL

WALKERMINE, CALIF.

NOV. 14, 1939 - 3:18 PM

RENO H. SALES,
ANACONDA COPPER MINING CO., BUTTE, MONT.

SECOND SURFACE HOLE LOST AT FOUR NINETEEN DRILLERS IDLE SHALL WE START NEW HOLE
AND TAKE CHANCES ON SNOWING IN EQUIPMENT STOP REFER TO SKETCH AIR MAILED NOVEMBER
11th STOP HOLE 31 CUT MINERALIZATION ONE NINETY TO TWO HUNDRED TWO FEET NOT
THROUGH VEIN STOP WOULD LIKE PERMISSION TO EXTEND HOLE 29 ALSO A HOLE SOUTH OF
NO 31 ALSO DRILL A HOLE WEST FROM SEVEN HUNDRED SUB LEVEL NEAR HOIST ROOM TO
JUSTIFY HAWLAGE FROM THIS END WIRED LYONS

R K DROUBAY
S

(Original Sent to Mr. Sales
25 Broadway, Room 1726, N.Y.)

KMM

WALKER MINING COMPANY

WALKERMINE
PLUMAS COUNTY, CALIFORNIA

Calk

L. F. BAYER, MANAGER

October 18, 1939

Memorandum on Development

Mr. Sales spent October 17 and 18 at Walkermine, and recommended that the following projects be carried out at the earliest possible convenience.

Project No. 1

To Determine the Behavior of the 517 Vein Below the Extreme South Portion of 471 ODS.

Sections indicate that the vein, if it extends to the 500 and 600 levels, should lie in the approximate position shown on the sketch.

A. Further prospecting along 517B should be done a little more to the west, as indicated on the sketch, keeping in mind that the main vein may continue S 45° W.

B. If the ore continues along the 500 level, then prospecting from the 600 level should be carried out by extending 668E in a southerly direction along the weak fissure. See sketch.

Project No. 2

Prospect the North End of the 712 Orebody, Where the Several Footwall Fissures Join the Main Vein.

There are several streaks of ore on the 600 sub, 600, 500 and 400 levels that should be opened up to determine whether or not this zone contains enough ore to warrant stoping.

400 Level:

A. Extend 484CxcW far enough to expose the extreme footwall split of the fissure, or to be sure it does not extend this far.

B. Open up the mineralized zones that lie along the first two fissures cut by 470CxcW, and follow out in both directions.

500 Level:

544B may have to be extended to meet 535B, if the fissure proves productive above.

October 18, 1939

600 Level:

A. 649D should be extended far enough to cut all of the fissure zone.

B. All mineralization in this zone should be opened up the same as recommended for the 400 level.

C. A crosscut should be driven from the main vein to the end of 618E to obtain another assay cross section of this footwall area. 648D averaged 1.07% Cu.

600 Sublevel:

699B should be extended in a northeasterly direction to determine the extent of the mineralization. Part of this work may be done by exploring from 604BDN.

Project No. 3

Explore the small high grade vein exposed in 450CDN near 768BR, by raising and by drifting south into the 710 Orebody.

Project No. 4
Diamond Drilling

A. It was decided that the footwall country of north Piute had been sufficiently explored by the old surface diamond drill holes Nos. 3, 8, 10, 11, 12 and 14, and that therefore drill hole No. 23, drilled west from the end of 904BDN, should not be continued beyond its present 209 foot depth. The objective of cutting the footwall quartz exposed in 900CxcW was obtained.

B. A 200 foot hole should be driven south of hole No. 25 to obtain another cross section of the footwall mineralization exposed by holes No. 22 and No. 25 drilled from the 1200 and 1000 foot levels of the Central Orebody.

C. Two short holes may be drilled from the face of 1017DN to locate some trace of the 712 mineralization.

Respectfully submitted,

S. K. Droubay

S. K. Droubay

C O P Y

Salt Lake City, Utah
September 13, 1939

Walker Mine

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

Dear Sir:

Mr. Lyon and I have considered further the drilling program for the Walker. We decided on the following:

1- 900 Pinta Level

- 400-500
- (a) Drill due east from the present north face of 904B drift N., approximately 800 feet.
 - (b) Drill due west from present north face of 904B drift N., approximately 800 feet.
 - (c) Drill due west from face of footwall crosscut under Pinta shaft, ~~4500~~ feet. The drilling of this hole to be re-considered should the west hole from 904B drift be a total blank.

2- 1000 Level

- (a) Drill N 70° W from the face of the first crosscut south of 706A winze, 600 to 900 feet.
- (b) Drill due west from the face of 1055B crosscut, 600 to 800 feet.
- (c) Drill N 55° E from the face of 1056B crosscut, 800 to 900 feet.

These holes to be drilled in the order above given unless you are advised to the contrary. The program will be subject to possible modifications depending upon disclosures on any particular hole.

RHS:P

cc: Messrs. Wood
Lyon
Dunbar

Yours very truly,

Reno H. Sales

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable sign above or preceding the address.

WESTERN UNION

SIGNS

- DL = Day Letter
- NM = Night Message
- NL = Night Letter
- LCO = Deferred Cable
- NLT = Cable Letter
- WLT = Week-End Letter

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

KHA 195 67 NL=WALKERMINE CALIF 6

1939 SEP 21 PM 11 30

RENO H SALES=

July

526 HENNESSEY BLDG BUTTE MONT=

DID NOT RECEIVE COPY OF YOUR RECOMMENDATIONS ON DRILLING UNTIL TWELVE HUNDRED WORK WAS STARTED STOP THREE HUNDRED FEET OF FOOTWALL HOLE COMPLETED TODAY OPPOSITE THREE HUNDRED FOOT HANGINGWALL HOLE WITH SEVENTEEN VEINLETS OF APPROXIMATELY ONE PERCENT ROCK BETWEEN SIXTY AND ONE FORTY FEET STOP WILL EXTEND HANGINGWALL HOLE AND CONTINUE RECOMMENDED WORK IN OTHER AREAS UNTIL FURTHER NOTICE STOP ILL SEND YOU LETTER TO SALT LAKE STOP=

S K DROUBAY..

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Walker Mine
Calif

September 5, 1939.

Mr. S. K. Drobay,
Walkermine, California.

My dear Drobay:

I have your letter of August 31st and the two maps attached thereto. I was quite surprised to learn that you had drilled a hole so near the shaft into the hangingwall country from 1201 drift north. I was under the impression that the 1100 level crosscut from the shaft was long enough to fully determine the width of the Walker vein zone. According to your own section, B12, the 300 foot hole on the 1200 level is not long enough to explore the downward possibilities of the mineralization in drill hole number 6 drift from the 6 Sub-level. In that hole the mineral showing is 400 feet from the hangingwall of the main Walker vein. The dip is unknown, but should it be flatter than the Walker vein, it might require 4 to 700 feet to fully cover its possible downward projection at the 12th level.

For the present, I hope you will not do any further drilling from the 12th level. I note you have 6 holes laid out to be drilled from the 12th level at certain intervals along the proposed north and south 12th level drifts. The holes already proposed to be drilled into hangingwall country are for the purpose of finding out whether or not there is a parallel vein or ore zone within drilling reach. If any one hole determines the non-existence of such an ore or vein zone, you will agree that it would be folly to repeat such drilling into the same country. In the case of the 298 foot hole already drilled from the 12, your letter indicates that there is but little mineral showing and certainly no vein showing of any strength. Under these circumstances there is no reason to project more drilling. Especially at such short intervals as indicated on your map. My only suggestion would be that the 298 foot hole be extended to at least 700 feet, or even a greater distance, providing it encounters no serious operating difficulties.

I believe the hole already proposed from the 1000 level into the footwall is sufficient to explore that country. However, I have no objection to seeing it drilled from 1201 drift north, as you marked it on your map, although it does seem to me that 1200 drill operations might interfere with operating work on that level. Under the circumstances, I am unable to approve the drilling suggested in the last two paragraphs of your letter.

#2

Mr. S. K. Droubay

September 5, 1939.

You may recall that the reasons for locating the hanging-wall hole, which you designate item #1 on your map, were to give us some information on the possibility of a split in the Walker vein going northerly from 706 shaft, and to check at a relatively short distance on dip, the showing in drill hole #8.

I expect to go to Salt Lake within the next few days, at which time I will more fully discuss this drilling situation, and advise you. I would like, however, that in the future you do not vary the drilling program already laid out without first securing the approval of Mr. Weed and myself.

Very truly yours,

RHS:MBS

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

HUBO H. SALSB

AIR MAIL

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

Walker Mine

L. F. BAYER, MANAGER

August 31, 1939

Mr. Reno H. Sales, Chief Geologist
 Anaconda Copper Mining Company
 Butte, Montana

Dear Sir:

With reference to the diamond drill holes under items No. 1 and No. 3 in your letter of recommendation to Mr. Elton dated July 1, 1939, I would like your advice as to the following situations that have come up:

Development drifts north and south along our 1200 Level had to be stopped pending completion of a sump and installation of pumping equipment. So much water has been encountered, especially in the north heading, that we cannot take chances on opening up any more ground until this can be taken care of (about three more weeks). In the mean time rather than run crosscuts to insure against driving our headings parallel to any sizable vein, I advised that two short drill holes, normal to our vein in general, be driven from the face of 1201DN

The hanging wall hole has been completed to a depth of 298 feet and the footwall hole will be started in a day or two (when a broken part of the drill machine is replaced). The first 260 feet of the completed hole shows a few one-half stringers of chalcopyrite. I have not seen the last forty feet of core.

These two holes will test ground that lies near the objectives of the holes referred to above, if the footwall hole be driven six hundred feet in depth.

In view of the water hazard, it may be advisable to test for the vein along the 1200 level with drill holes instead of crosscuts by placing them approximately three hundred feet south of 706A Shaft, and again three hundred feet north of the present 1201DN.

Is such a program permissible, and if so, will it reach the objectives intended for the holes of item No. 1 and No. 3.

Respectfully Yours,

S. K. Droubay

S. K. Droubay

cc - Lyon
 Dugan

Walker

Aug. 11, 1939.

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

Dear Tom:

I am in receipt of Droubay's letter of August 7th and his map showing the location of a proposed drill hole on the Piute surface, north of the Piute shaft.

I have discussed the matter with Mr. Weed and we are of the opinion that such a prospect hole should cut the vein at, at least, 50 feet below the elevation of the 900 level. In this particular instance, the question of the strike northerly from the present 900 is an extremely important one, or if there should be an intervening faulting, drilling results may prove to be difficult to interpret correctly. I am inclined to think that the tendency is for the vein to maintain its general north 15° west course, in which event the proposed drill hole will cut the vein at or below the 900 level. Because of the length of hole necessary, I do not believe we should try to cut the vein at a much deeper elevation.

If the vein should strike more northeasterly, there is the chance that the proposed hole would miss it entirely, or strike within the oxidized zone. I guess we will have to take our chances on this first location, and I suggest that arrangements be made to go ahead with it at the earliest possible date.

Yours very truly,

RHS:KM
cc: Messrs. Elton
Weed
Bayer

RENO H. SALES

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

F. BAYER, MANAGER

August 7, 1939

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

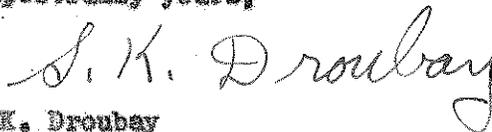
Dear Tom:

In answer to your letter of August 2, 1939,
I am sending copies of the enclosed map to
Messrs. Weed, Sales, and Dugan.

It appears as though a hole drilled from the
surface 500 feet north of the present face
of 9043DN should be drilled as shown on the
map. By placing it 200 feet farther north
the hole could be drilled somewhat flatter
and consequently cover a trifle more possi-
bilities. An additional hole drilled parallel
and collared approximately 400 feet to the
east would give desirable information.

We have a portable compressor here at camp
and as a road and water are near at hand,
drilling in the area should not prove very
difficult.

Respectfully yours,



SKD:SW

S. K. Droubay

Encl.

cc - Messrs. Weed
Sales
Dugan

COPY

August 2, 1939

Mr. Seth K. Droubay
Walker Mining Company
Walkermine, California

Dear Red:

On July 1 Mr. Sales recommended a diamond drilling program for the Walker mine. In addition to the underground holes, Mr. Sales recommended that a hole be drilled from the surface 500 feet ahead of the present 900 Piute drift north for the purpose of testing the main shear zone at that location. This hole will have to be drilled at an angle so as to cover all possibilities of the shear zone to the north. Will you please prepare a plan map and sections showing all possible drill locations to prospect this area. Please send this information to Mr. Sales, Mr. Weed, Mr. Dugan and me.

From the information we have in this office it looks as though it will be necessary to drill at least 900 feet. If that is the case it will probably take from 45 to 60 days to complete this hole. Consequently, we will have to get started immediately if the hole is completed before bad weather.

Please have the information in the hands of Mr. Weed and Mr. Sales as soon as possible so that the location of the hole can be decided upon.

Very truly yours,

Tom Lyon
Tom Lyon

TL:P

cc: Messrs: Weed
Sales
Dugan

Walker

July 1st, 1939.

Mr. J. O. Elton,
820 Kearns Bldg.,
Salt Lake City, Utah.

Dear Jim:

I spent Monday, June 26th, at the Walker Mine. Since returning I have read Tom Lyon's letter of June 23rd, in which he recommends a certain drilling program for the Walker Mine. I have also gone over the matter very fully with Mr. Droubay, the mine geologist.

There is but little doubt that the Walker Mine has reached a critical stage. The mine is operating and there is being added to the ore reserve nothing substantial in the way of tonnage. If the mine is to continue operations very far into the future, important ore discoveries or developments must be made.

Viewing the Walker as a general picture, there are two angles to any development program. There are certain ore possibilities which might be developed under the so-called short range development recommendations, and there are the longer range possibilities of orebody extensions and new ore discoveries. The short range program can do nothing more than prolong the present situation for a limited time. I believe the prospecting for important ore extensions or ore discoveries is the vital matter needing our serious consideration.

The Walker Mine is essentially a low grade ore operation. The margin of profit even in good times has been relatively small, considering the tonnage handled. In the past it has enjoyed the advantage of a large proportion of the ore coming from above the tunnel level. It has enjoyed the very low cost ore produced from that portion of the wide Piute orebody lying above the tunnel.

Mr. J. C. Eiton---2

July 1, 1939.

Looking to the future, the mine is facing higher ton cost ore from below the tunnel level, because of sinking, pumping, ventilation, etc. There is also the possibility of stopping costs being increased in depth, due to the presence of a strike fault along the vein. On the basis of present metal prices, say with copper at 12¢ or under, we must hope therefore, that the Walker ore extensions in depth will not only be maintained in size, but that there will be an increase in metal content. Otherwise a profitable operation may not be possible.

The behavior of the vein in depth below the 700 level adit tunnel has been far from satisfactory. The extreme south end crosshoots have been on a par, or alightly better perhaps than above the adit level. The Central orebody which averaged around 4% copper above the 6th level, dropped to low grade at the 700, 800 and 900, and is too poor to mine at the 1000. The north orebody, 1200 feet long at the 700, is only half that long at the 1000, but the grade at the 1000 is better. The 712 crosshoot has not been tested below the adit level. The Plute crosshoot, over 1300 feet long at the adit level, is too poor to mine on the 900 and 1000 levels.

In the light of the above facts, the question naturally arises, what are the prospects, if any, that the Walker Mine can be rehabilitated? In my opinion, the prospects are poor but not entirely hopeless. There are several pieces of mine development work which should be carried out as rapidly as possible and, in addition, a number of drill holes are advisable. These recommendations are listed below:

Mine Work.

1. Continue 1017 drift north, followed by sufficient crosscutting to test the downward extension of 712 orebody. This might require 500 to 800 feet

Mr. J. O. Eaton--5

July 1, 1939.

of drift and several hundred feet of crosscut depending upon results.

2. Extend the 1200 northerly from 706 A Shaft to develop the north orebody. Probably 1000 feet of work. A few hundred feet of drifting to the south from 706 S Shaft may also be advisable.

3. Extend the 900 Plute drift northerly for 1000 feet with sufficient crosscutting or diamond drilling to prove the vein.

The above three projects will probably either make or break the Walker Mine in my opinion. In spite of the unfavorable behavior of the Walker vein in depth, the expenses of the above projects are justified, partly because of the excellent mine and milling plant facilities on the property, and because of the fact that the Walker vein zone is a very strong one, having been developed on strike for 7500 feet, of which, a length 4200 feet was minable at the elevation of the tunnel level. The chief copper mineral is chalcopyrite, and in one ore-shoot at least, the south orebody, the best grade of ore is at the bottom (10th) level.

In addition to the mine development work above suggested, I recommend the following diamond drill projects:

1. A hole run easterly 500' either from the 900 or 1000 level to cut the mineralization disclosed in old D.D.Hole #8 run from 6th Sub-level.

2. A hole run easterly into hangingwall country in the general vicinity of N-S coordinate 17300. The purpose of this hole is to test the possibility of a south continuation of the Plute zone to the east of the 712 and North orebodies. Old Brill Hole #15 indicates such an extension. As to elevation it can be run from the face of crosscut 1036-B or 1043-B, or from the 7th level, or 6th Sub-level. Favorable results should be followed by additional holes

Mr. J. O. Elton--4

July 1, 1939.

fanned from the same set-up or in next crosscut to south.

3. Drill westerly from the face of 1000 level crosscut just north of Raise 1026. Distance 500-600 feet. To test footwall vein zone in 713 A drift.

4. Drill northwesterly on 1000 level, probable location 1055 B crosscut, to test downward continuation of 517 vein zone.

5. Drill angle hole from surface 500 feet ahead of present 900 Piute north drift. To test extension of Piute vein zone. Any favorable results to be followed by a second hole.

In addition to the diamond drill projects above specified, there are a few shorter prospect holes in different parts of the mine which can be drilled when convenient, but they are relatively unimportant. Some of the short hole projects recommended by Droubay should be replaced by crosscuts.

Yours very truly,

RHS:KM

cc: Messrs. Kelley
Weed
Lynn
Dugan

RENO H. SALES

Walker

April 25, 1939.

Mr. Seth K. Droubay,
Walkermine,
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 | 22,599 | Tons |
| " | February | 22,599 | " |
| " | March | 5,994 | " |

which, on April 1st leaves a total reserve of 1,538,922 tons, averaging 1.27% copper.

I concur with your suggestion to drive 471-C drift southwesterly beyond 550-B Raise 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. 20° 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

Mr. Seth K. Droubay--2

April 26, 1959.

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,

MHD:KE

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

M. H. GIBEL

WALKER MINING COMPANY

WALKERMINE
PLUMAS COUNTY, CALIFORNIA

L. F. BAYER, MANAGER

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 654E to NW 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 gray, 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 800 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.

(Copy to:
Messrs. Kelley
Weed
Sales
Lyon
Dugan
SW

Very truly yours,

Seth K. Droubay
S. K. Droubay

Seth K. Droubay

RECOMMENDATION FOR DEVELOPMENT WORK

GEOLOGICAL DEPARTMENT

INTERNATIONAL SMELTING & REFINING CO.

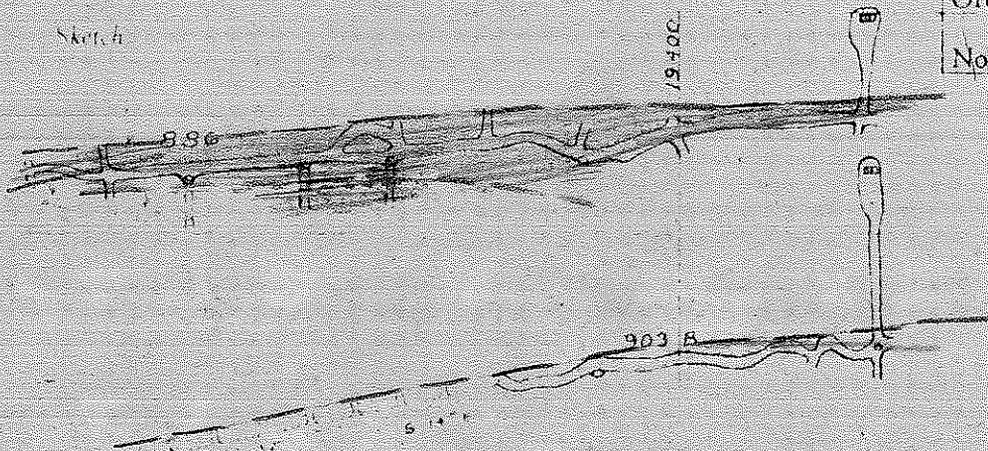
Mine WALKER

00

Ore Body Piute

No. 22

Sketch



Remarks

Extend 903B DS on lines S 14° E and crosscut to footwall every 50'. Level must be off of footwall for scraper stopes. Lines to be changed as guided by footwall.

390' drifting 25' raise

Amount of work

98' crosscutting

Recommended by

S. K. Droubay

Date of recommendation

April 20, 1939

Date started

Approved by

L. F. Bayer

Date completed

$$(390 + 98) \times \$15 + 25 \times \$7 = \$7485$$

Total estimated cost.

Engineering Company
rebody
Scale 1" = 50'

18000

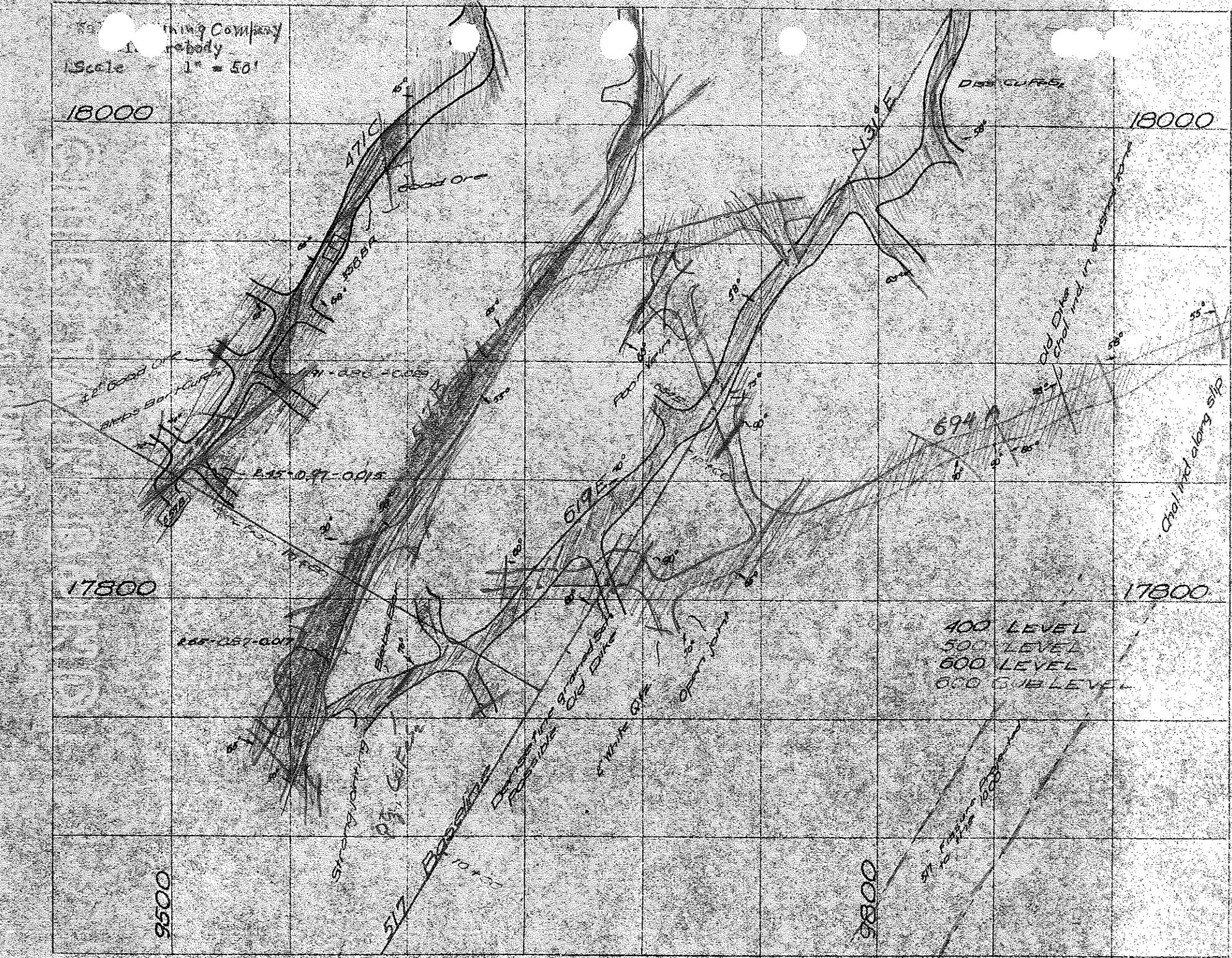
18000

17800

17800

9500

9800

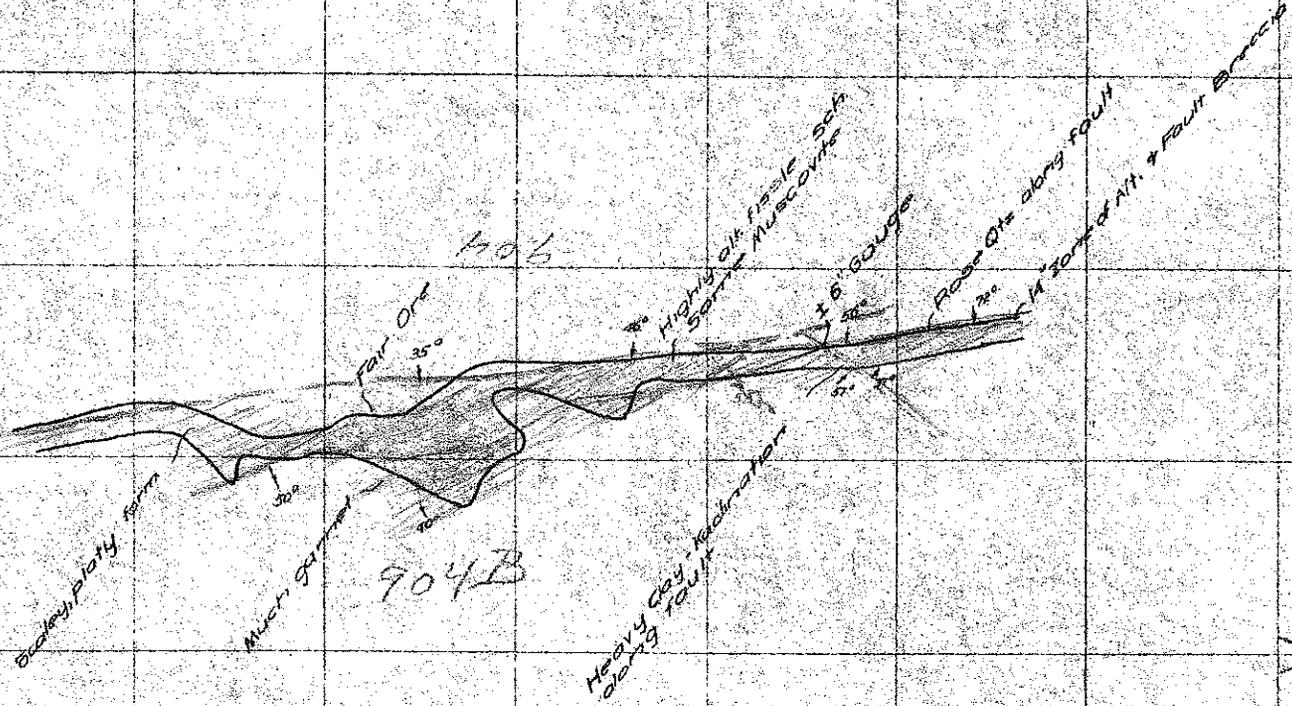


Walker Mining Company
Elite Method
Scale 1" = 50'

19861

10400

10400



10600

10600

19861

20000

Miller Mining Company
712 Orebody
Scale 1" = 50'

47C

6600

565B

564B

6500

517B

SECTION 10 + 80

6400

619E

6300

SUB Level Elevation

March 14, 1939

Mr. S. K. Droubay
Walker Mining Company
Walker Mine, California

Dear Red:

Mr. Lyon has requested me to acknowledge receipt of your last letters which were accompanied by the geological notes and progress maps for the Walker mine for the month of February. We have noted all your comments on the same.

The new mineralization exposed in 873 E. crosscut in the 517 ore zone looks interesting. I hope that you can raise on it to the 500 level and can follow it southwesterly in case the 517 ore sheet should rake in that direction. I note also that 471 C drift on this vein did not connect directly with the top of 559 B raise. Didn't the vein extend to the top of 559 raise or is there a split here?

The mineralization in the 888 drift south on the Piute ore zone seems to have become weaker and more scattered south of 823 A and 829 A crosscuts but I believe some additional drifting and crosscutting according to your previous recommendation should be done here before this exploration is stopped.

Regarding the northward exploration on the 900 level in the Piute ore body and your question to Mr. Lyon concerning the direction to be taken by the 904 B heading, we are quite sure that Mr. Gidal's idea is to continue the drift northerly along the main footwall slip. Such a drift will serve to prospect the footwall fault and at the same time determine if there are any other faults or slips branching off to the northeast in the footwall of the one already known. I note that the last geological notes on the 800 drift north show the footwall

2- Mr. S. K. Droubay

March 14, 1939

fault swinging slightly more to the northwest but it nevertheless should be prospected for some distance to the north on the 900 level as long as it shows any strength or any mineralization. Your original recommendation sheet for the extension of 904 B drift north shows the proposed drift following close to the northward projection of the footwall fault and I believe that this is Mr. Gidel's recommendation also. The question in your mind is apparently whether to continue 904 drift along the main footwall fault or to drive it northerly on a north-south line and to crosscut at intervals in two directions - both to the footwall fault and to the east split. I believe that following the fault will more satisfactorily prospect the footwall zone and the total amount of crosscutting will of course be the same by either method; and I believe that this was what Mr. Gidel meant in his letter to Mr. Lyon. I would therefore start the new drift along the fault which it has previously been following and if this should not be according to Mr. Gidel's ideas it can be swung off into a north-south line later.

Trust that the new long-range development work here and on the 1200 level will soon be under way and that you are gradually succeeding in getting enough stopes started to relieve the pressure for mill feed.

Hope that all goes well and here's sending best regards from Mr. Lyon and myself.

Sincerely yours,

MBK:P

M. B. Kildale

cc: M. H. Gidel

Walker Mine

Feb. 8, 1939.

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

Dear Tom:

Thank you for copy of Mr. Kildale's letter concerning the recommendations for development at the Walker Mine, which were submitted by Mr. Droubay.

With limited funds for development, Recommendation No. 15, proposing development of the North Orebody on the 1200 level, undoubtedly is the most important one to start first, to determine whether or not commercial grade ore extends beneath the best ore exposure on the 1000 level.

In regard to prospecting the northerly extension of the Piute orebody on the 900 level (Recommendation No. 18), I believe it would be best to extend the drift on its present course through all possible footwall branches of the fault, 100' to 200' into solid ground before turning a crosscut to the east to test for a right hand displacement or an eschelon branch of the vein structure. In the stope at the north end of the 700 level, I noted "drag" blocks of vein material to the right, implying a throw in that direction. The first test crosscut should give some idea of structure to the north, and thereby govern the plan of prospecting beyond that point; which might be considerably different from that sketched on the Recommendation Sheet. Any lateral that is to be driven should not be too distant from the vein structure.

Should a diamond drill be available at the mine, I would suggest that some drilling be done in lieu of crosscutting off the new lateral. If ore should be found in any of these projects, drifting should be done on same in preference to lateral work, unless heavy, wet ground should preclude making desired advances.

In other words, the recommendations as written suggest a plan for development, subject to whatever changes it may be desirable to make as the work proceeds, based on the relation and character of vein and fault structures.

Yours very truly,

MHG:S

M. H. GIBBL

cc - Mr. Reno H. Sales
Mr. C. E. Weed

*2/19/39
Sent sketch of
1st Fl. - N. Face Piute
Orebody on 700 level.
M.H.G*

January 28, 1939

Mr. Tom Lyon

Office s

Dear Sir:

The following comments are submitted on the last four development recommendations for the Walker mine (Nos. 15, 16, 17, 18) as submitted for your approval by Mr. Droubay in his letter of January 25, 1939.

Recommendation No. 15

This is the recommendation applying to the drift northerly on the 1200 level off of 1082 winze. It follows the general plan already agreed upon and appears to be satisfactory with the possible exception of the two pairs of crosscuts designated to be run from this drift at distances of 140 and 340 feet from the winze. If no strong mineralization is encountered along the fault zone in the crosscut easterly directly off the winze station, it is believed that the north drift should be pushed as rapidly as possible along the footwall of #1 fault until a point under 1060 A drift and on the downward projection of the north ore body is reached -- without delaying this drift to run the first two sets of crosscuts as shown on the recommendation sheet. When a point about 600 feet north of the winze is reached, crosscutting of the zone should be done to locate the downward projection of the north ore body along which, if found, the drift can be continued to the north as shown.

Recommendation No. 16

This applies to a drift southerly from 1082 winze on the 1200 level. Its general plan is suitable but if sufficient development funds are not available at the present time for both the north and south drifts on the 1200 level, this proposed drift to the south should be left in abeyance until the north drift is completed. The ore zone of the central ore body on the 1000 level in this area is narrow and it is believed that the northerly development drift near the north ore body is more important than this drift to the south.

January 28, 1939

Recommendation No. 17

This applies to the continuation of the south drift on the 800 level in the Piute ore body. It now appears possible that the southern limit of the commercial ore on the 800 level has been reached in the vicinity of 828 A and 829 A crosscuts. However, as shown on the recommendation sketch, the 886 drift on the 800 level has reached the area below the point where the Piute vein splits into two branches on the 700 level, one split following the footwall fault to the south, the second branch turning to the southeast. Thus the 800 level drift should be continued along the footwall fault as shown on the sketch and the proposed crosscut easterly at a point about 100 feet ahead of the present face should be driven a sufficient distance to be sure of cutting any southeasterly split as shown on the 700 level. The mineralized zone shown as being cut in D.D. hole #15, drilled from the sub-level above the 700, may represent this easterly branch. Recommendation as outlined covers these possibilities except that the easterly crosscut as shown should probably be extended about 50 feet further than shown.

Recommendation No. 18

This recommendation applies to the prospecting of the area north of the present Piute ore body on the 900 level off of the Piute shaft, according to the general plan already agreed upon. It is recognized that in this area two possibilities must be tested - (1) the continuation of the ore zone northerly along the flat footwall fault and (2) the presence of other ore bodies along the northeast-striking fault which appears to branch off the footwall fault in this area. This fault may itself be mineralized or may be a fault of the "cross-over" type which will lead to another ore body parallel to but lying north and east of the Piute ore body. The recommendation as submitted calls for the continuation of 904 B drift northerly along the footwall fault, with frequent long crosscuts easterly toward the northeast branch fault. It appears to the writer that these long crosscuts are neither so economical nor so satisfactory as would be a drift directly along the northeast fault. Such a drift will require less footage than the long crosscuts and give more geological information. The geological mapping of the two drifts along the footwall and northeast faults should detect any branching mineralized zones which may split off into the area between the two drifts. Hence it is recommended that this recommendation be revised to call for a drift along the northeast fault and the elimination of the long crosscuts off of the extension of 904 B drift.

Respectfully submitted,



M. B. Kildale

MEK:P

cc: Mr. M. H. Gidel
Mr. J. F. Dugan

ANACONDA COPPER MINING COMPANY

25 BROADWAY

NEW YORK

OFFICE OF THE
GENERAL MANAGER OF MINES

January 4, 1939.

Mr. J. F. Dugan, Gen. Supt. of Mines
International Smelting & Refining Co.
Kearns Building
Salt Lake City, Utah.

Walker

Dear Jack:

Messrs. Sales, Gidel and I have gone over your recommendations for diamond drilling at the Walker mine, and have reached the following decision:

You are authorized to start work on the 1200 level drifting along the vein in both directions from the shaft to see what the vein looks like on this level. We believe that the decision in regard to drilling under the 1200 level should be deferred until our return from South America in April. By that time, we will know the general character of the vein on the 1200 level and be able to make some decision in regard to what should be done in the line of deeper work.

I think Mr. Sales will also write Mr. Lyon in this connection.

Yours very truly,

Chew

CEW:F

CC: Mr. J. R. Hobbins
Mr. Reno H. Sales ✓
Mr. J. O. Elton.

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 suprising that our Walker maps and sections do not show that the shaft is down to the 1200 level.

Yours very truly,

RENO H. SALIS

RHS:D

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