INTERNATIONAL SMELTING AND REFINING COMPANY

Kearns Building, Salt Lake City, Utah

TOM LYON
GEOLOGICAL DEPARTMENT

ANACONDA
from mine to consumer

November 12, 1941

Mr. M. H. Gidel
P. O. Box 26
Butte, Montana

G-105(a)

Dear Murl:

Enclosed are two reports on properties located to the north of the Walker Mine, Plumas County, California. This examination was made to satisfy Mr. G. L. Bemis who is a large stockholder in the Walker mine. You are no doubt familiar with these properties.

Mr. Stephens calls attention to one property in which some development work might be done, namely, on the Native Son claims. It would not pay, however, to develop these claims unless the Walker Mine were in operation.

Very truly yours,

Tom Lyon

TL:P
2- Encl.

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WALKER CONSOLIDATED

Adjoining Walker Mine on the SW.

(J. R. Walker)

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Dec. 6, 1941.

Mr. J. O. Elton, General Manager,
International Smelting & Refining Co.,
820 Kearns Bldg.,
Salt Lake City, Utah.

Dear Jim:

Perry has forwarded to me a copy of a letter, written by J. R. Walker to the Walker Mining Company, dated November 5th, with reference to a property known as the Walker Consolidated, adjoining the Walker on the southwest.

This ground has been brought to our attention from time to time. I saw it before the Walker Mine was under way. E. C. Stephens and Droubay have seen it, and more recently it was examined by Perry. None of our men has regarded it as being worthy of further development. Under the circumstances, I cannot recommend it for Walker Mining Company's serious consideration.

Yours very truly,

RHS:KM

RENO H. SALES

cc: TL
VDP

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818 Kearns Building
Salt Lake City, Utah
December 4, 1941

Mr. R. H. Sales
P. O. Box 457
Butte, Montana

WALKER CON.
Plumas County, California

Dear Mr. Sales:

Enclosed find a letter written by J. R. Walker regarding the Walker Con., Plumas County, California. Mr. Elton left this letter on my desk and wanted to discuss the subject with you during one of your visits in Salt Lake City. Since you are not planning to be down here in the near future, I think it advisable to refer the letter to you without any further delay.

The proposition offered is out of reason. You made an examination of the Walker Con. many years ago and have your own opinion of the property. You will recall that I spent a short time on the ground the last time you and I were at the Walker mine.

Mr. Walker's statement that there has been insufficient work done to prove or disprove the possibilities is not in accord with the observed facts. Long tunnels have been driven under both the upper and lower surface showings and in both cases, results were very unfavorable.

I cannot see how we are justified in giving this property further consideration.

Sincerely yours,

V. D. Perry

VDP:JW
Enc.
CC: Mr. J. O. Elton
Mr. Tom Lyon

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JOSEPH R. WALKER
NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

November 5, 1941

The Walker Mining Company,
Kearns Building,
Salt Lake City, Utah.

Gentelmen:

The following proposition I desire to make to the Board of Directors of your Company.

I own control of 80% of the stock in the Consolidated Gold and Metals Company, which Company owns eleven Patented Mining Claims and other claims held by location. This property is about one mile westerly from the property of the Walker Mining Company, and parallel to it with a reverse dip, the highest point is about 300 feet higher than the Walker Mill, and ore can be delivered from this property to the mill for half the cost of delivering of ore from the Walker mine.

This property I acquired and patented prior to my acquisition of the Walker property. On this property there is a wide mineralized zone, which extends the entire length of the patented claims. In other words, it can be reasonably expected to produce a large tonnage when developed.

My offer is this: Give Walker Mining Company a ten (10) year lease, and allow them to do work in the development as they see fit. The royalty to be 10 lbs. of copper to be set aside for the Con Gold and Metals Company at Perth Amboy, F.O.B. plus one half of the Gold and Silver for each ton of ore that is removed from the Consolidated property. This royalty would be about 16 2/3 per cent on ore assaying 3% copper. The Walker Company to commence diamond drilling with say, 20 holes of 100 feet each, to cut the outcrop of the veins at a shallow depth of say, 50 to 60 feet in order to show ore and continuity. These 20 holes can be done for $1.50 per foot or an outlay of $3,000. If this drilling proves satisfactory, then the Walker can continue deeper drilling to show tonnage before commencing development work. There should be no fear of the results. In early days of the Walker I did a lot of sampling and assaying, and the surface showing of copper is twenty times more on the Consolidated than on the Walker, if that is any indication to go by.

My purpose in presenting the above mentioned proposition to the Walker Company is for the rehabilitation of the Walker Mine and consequently the rejuvenation of the value of its stock to the present share holders.

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JOSEPH R. WALKER
NEWHOUSE BUILDING
SALT LAKE CITY, UTAH

There should be practically no new capitol expenditure in the way of new equipment to carry out a development program of this kind due to the large warehouse stocks which the Walker Company now has on hand, the only expenditure being for labor after the diamond drilling has demonstrated the ore bodies which are to be expected.

The engineers of both the Anaconda Company and International Company, have stated that there is no continuity of ore, or vein structure, in the Consolidated property. How this statement can be made, as there is so little work under ground having been done; I can not understand. I sampled and assayed all the outcrop at the Walker, as I have done on this property, and I can say that the outcrop showing on the Consolidated shows twenty times as much copper as on the Walker.

The Consolidated is a tunnel proposition, no water to pump to a depth of 1,000 feet. I further consider it crucifying to the Walker stockholders for the Walker Company to pass up the property I am offering at a minimum outlay, say, $10,000 for diamond drilling, to demonstrate a further life to the Walker Company and its stockholders.

I am asking that this proposition be engrossed on the Records of the Company. Am not asking for anything except that diamond drilling be done at a minimum cost of $10,000 and am offering a ten year lease as here-to-fore stated. In making a lease, as stated above, it eliminates any expenditure for a sampler.

It is due to my confidence in this property that I am making such an easy lease. At one time in New York, Mr. Kelly told me that I was responsible to the stockholders as President of the Company. It would be a crime to dismantel the plant and camp equipment which has cost $2,500,000 without making every effort to continue mining operations.

Yours truly,

WALKER MINING COMPANY,

J. R. Walker

President

JRW
H

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FORM 396 4-1-41-2M

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

November 13, 1941

H. M. HARTMANN, MANAGER

Mr. M. H. Gidel, Ass't. Chief Geologist
Anaconda Copper Mining Company
Hennessy Building
Butte, Montana

Dear Mr. Gidel:

Sorry not to have answered your letter of October 15th sooner. I was not surprised to learn Mr. Sales' opinion as the the surface area I mapped, as we discussed it while he was here. I also believe that most of the iron stain came from the alteration of ferro-mags and silicates, as well as magnetite in the schist itself. As we were some distance from the main footwall fissure, (± 100 ft.) and as the dike near the turn in our footwall vein has a tendency toward a slight offset to the east, I thought it possible that there might be a chance for further mineralization along its strike which I thought I could trace to the cirque. I believe that Vin Perry also had this idea at first. On checking over the area and maps after Mr. Sales left, I can see now that this fissure could not possibly be where I supposed without a tremendous offset.

Since the Walker closed, we have been very busy getting our monthly and yearly reports in shape. If you have happened to look at the "Available Ore Reserve Sheet" for October, you can see where I tried to wipe off all false ore inventory. The sheet now represents pretty well what is left.

The Ore Reserve Sheet will probably show some changes also, although not so drastic. The North and Central Orebodies are pretty well worked out. A large part of the tonnage shown in the lower portions of 930 and 940 Blocks, as well as the majority of that in 1020, 1030, and 1040 Blocks, has been lost through caving ground. The dilution of the hanging wall with the ore in these low grade blocks makes extraction uneconomical. There is no way of checking the actual amount that has sluffed out, as the stopes are too wild.

I was sorry that Mr. Sales and Mr. Perry didn't have time to take a look at the 934-40C Block in North Piute. There has been a lot of movement exposed through our stoping operations. I will send a sketch of this stope as soon as I get the ore reserves finished. I should be able to wind up all work here around the 1st of December, or the 15th at the latest.

Very truly yours,

V. R. Chamberlain

V. R. Chamberlain

VRC;dm
cc - Mr. Sales
Mr. Lyon
Mr. Dugan

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Mr. M. H. Gidel, Ass't. Chief Geologist

Post Script: To date I have had no word from the Salt Lake office, as to when or what they expect to do with me. Jack Dugan told me to be sure and stay until the 1st. I should have most of the work finished by then, or by the 15th at the latest. Unless I could be transferred to some Property, like Cananea, or to Inspiration, or get to work along with someone like Vin Perry, or possibly Bob Moehlman, I would much prefer to come back to the Butte office. The reason I would like to work at Inspiration or Cananea, is that I would like to look at the geology of these properties and so broaden my experience. I have read Vin Perry's discussion of Geology of Cananea in the Ore Deposits of the Western States and have wanted to take a look at it ever since. Inspiration is another place I have always wanted to see. Of course I realize that there are probably no openings at the places I suggested, and that I would probably learn just as much if not more, in Butte. Thanks a million for letting me know that I could continue work with the Geological Department. I will let you know if I have anything definite from Salt Lake. If you should find out definitely as to where I am to go - whether home to Butte, or elsewhere, I would appreciate it very much if you would let me know, so I could ship a few things. Thanks again for your letter.

Very truly yours,

cc - Mr. Sales

V. R. Chamberlain

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BUTTE DAILY POST

Oct. 26, 1941.

Re: WALKER MINE, CALIFORNIA

Butte Daily Post
Oct 26, 1941
Re: Walker Mine

Ceiling on Copper Price Forces Big Producer to Close

SALT LAKE CITY, Oct. 25.—(AP)—Directors of the Walker Mining company announced today decision to close their copper mine in Plumas county, California.

The board cited recent fixing of a 12-cent ceiling on the price of copper, explaining in a statement:

"The action (the closing order) was taken because operations have been carried on for a considerable period at a substantial loss to the company and its stockholders, and in view of rising costs and the existing price of copper there appeared to the board to be no other alternative than to close down."

The Walker mine was controlled by the International Smelting and Refining company, a wholly-owned subsidiary of the Anaconda Copper Mining company. It produced 10,524,345 pounds of copper in 1940.

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WALKER MINING COMPANY

October 25, 1941

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

Dear Mr. Lyon:

Please find enclosed, geological sketches and classification table for development during the month of October, prints showing in yellow, mining operations with respect to orebodies, monthly analysis sheet, and a report on Diamond Drilling for the month. The following is a resume of the classification table.

SOUTH, CENTRAL, NORTH AND 712 OREBODIES. None.

PIUTE OREBODY.

1086BRs is an exploratory raise driven from 1079BxcW to determine the upward extension of the ore. The streak of ore on the footwall pinched to a width of 1 foot.

1091BDN&S were driven from 1086BRs at a point 25 feet vertically above the sill of the 1000 Level, to prospect the length of the ore. The ore in the North Drift narrowed down to a streak less than 1 foot wide on the hanging wall.

NORTH PIUTE OREBODY. None.

Respectfully submitted,
E. J. Lonnes

E. J. Lonnes
Chief Engineer

EJL:dm
Encl.
cc - Mr. Dugan
Mr. Sales

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WAIKER MINING COMPANY

DEVELOPMENT PROGRESS - OCTOBER, 1941

Orebody	Heading	Size	Ft. Adv.	Total Advance	Feet Ore	% Cu	Oz.Ag.	Oz.Au.	Feet Waste
Piute	(D) 1086BRs	8 x 13½	25	66	25	0.83	0.34	0.157	
	(D) 1091BDN	7x5	18	22	18	1.17	0.35	0.273	
	(D) 1091BDS	8x9	66	70	66	2.49	0.71	0.702	
	TOTAL		109		109	1.89	0.57	0.506	
	MINING (None)								
	DEVELOPMENT		109		109	1.89	0.57	0.506	

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MONTHLY SAMPLE ANALYSIS

...LKER MINING C... ANY - OCTOBER, 1941

Place	Average Assay Width	Average Assay % Cu	Average Mining Width	Average Mining % Cu	Feet Waste	Feet Over-Break	Tons Waste Bkg	Tons Waste Sort	Tons Exc.	Min. or Dev.	Remarks
						Drifts					
1091BDN	2.0	2.60	5.0	1.17	3.0				48	D	Produced as Ore
1091BDN ss	0.25	3.60	6.1	0.60	5.9				9	D	Produced as Ore
1091BDS	6.4	3.16	8.9	2.36	2.4				358	D	Produced as Ore
1091BDS ss	0.4	1.55	2.8	0.57	2.4				56	D	Round in Footwall. Produced as Ore
Average	4.0	3.08	6.6	1.98	2.6				471		
						Raises					
940CR ss	17.9	2.44	21.1	2.07	3.2				194	D	Included Waste
1086BRs	2.8	1.84	8.0	0.83	5.2	5.2			206	D	Foot & Hanging Wall Overbreak ?
Average	6.6	2.25	11.2	1.41	4.6	1.3			400		
						Stopes					
517C	10.9	1.56	17.5	1.25	6.6	5.6			1576		Foot & Hanging Wall Overbreak
915A	2.1	1.31	5.7	0.84	3.6	2.3			404		Foot & Hanging Wall Overbreak
934-40	15.4	2.36	30.5	1.76	15.1	0.7			463		Hanging Wall Overbreak
945	4.9	1.88	7.1	1.43	2.2				476		Included Waste
946A	2.2	3.76	6.9	1.44	4.7	2.9			768		Foot & Hanging Wall Overbreak
946B	4.1	2.61	5.9	2.08	1.8	1.4			42		Footwall Overbreak
955C	7.6	2.46	8.0	2.37	0.4				80		Included Waste
Average	5.6	1.98	10.4	1.36	4.8	2.8			3809		
						Mine Average - Month of October, 1941					
	5.5	2.13	9.9	1.43	4.4	2.2			4680		

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FORM 396 8-40 2M M.P.C.

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

H. M. HARTMANN, MANAGER

DIAMOND DRILL REPORT

October 1 - 15, 1941, Incl.

300 Level Pillars

Hole No.	Length
319E	15
322E	2
322E-1	30
323E	25
324E	42
325E	19
326E	43
327E	22
328E	26 ##
329E	7 ##
Total	231 ft.

231 ft. at $1.47 per foot $339.57

Hole not finished at end of Period

MISCELLANEOUS

Main Orebody - Blast Holes - 97 hours on Walker Accounts @ $1.439 per hr. $139.58

RECAPITULATION

Blast Holes - Main Orebody - 231 ft. @ $1.47 per ft. $339.57
Miscellaneous - Main Orebody - 97 hours on Walker Accounts @ $1.439 per hr. 139.58

Total $479.15

Approved.
H. M. Hartmann

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WALKER MINING COMPANY

DIAMOND DRILL REPORT — October 16 - 31, 1941.

300 LEVEL PILLARS

Hole No.		Length
328E	# 28	2
329E	# 50	45
330E		21
331E		12
332E		40
333E		24
334E		34
335E		11
336E		10
337E		20
338E		10
Total		227 ft.

227 ft. at $1.47 per foot — $333.69

Total length of hole (includes footage already paid for).

MISCELANEOUS

Main Orebody - Blast Holes - 26 Hrs. on Walker Accts. at $1.439 per hr. — $ 37.41

RECAPITULATION (PERIOD)

Blast Holes - Main Orebody - 227 ft. @ $1.47 per ft.	$333.69
Miscellaneous - Blast - Main Orebody - 26 Hrs. on Walker Accts. at $1.439 per hr.	37.41
Total	$371.10

RECAPITULATION (MONTH)

Blast Holes - Main Orebody - 458 ft. at $1.47 per ft.	$673.26
Miscellaneous - Blast - Main Orebody - 123 Hrs. on Walker Accts. @ $1.439 per hr.	176.99
Total	$850.25

approved
H. W. Hartmann

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October 15, 1941.

Mr. Virgil R. Chamberlain,
Walkermine, Plumas Co., Calif.

Re: Walker Mining Co.,
Plumas Co., Calif.

Dear Virgil:

I received your letter of Sept. 20th with accompanying prints, showing the geologic features on the surface which you mapped, particularly to the southwest of and in the footwall area of 712 ore zone on the Walker property. After wiring you Sept. 25th, advising that you review such findings with Mr. Reno H. Sales while he was at the mine, I awaited the opportunity to discuss the matter further upon his return to Butte a few days ago.

Mr. Sales, after carefully examining the ridge extending up to 1500 feet or more south and southwesterly from the collar of 487C Raise, is of the opinion that the area does not warrant the expense of any prospecting by diamond drill. He believes the rusty discoloration on the surface was derived from oxidation of iron-bearing silicates in the schist. I was hoping that some positive evidence could be found by surface study, which would indicate a probable vein existing beneath the southerly edge of the snow cirque immediately north of the rimrock. Possibly this cirque may have developed along the contact of soft altered diorite porphyry, which may extend eastward from the area you have shown as "D Ph" on the map.

I also received your letter of Sept. 22nd, listing low grade assays in 1071B D.N., and in Drill Hole No. 41. I note your statement that the bornite mineralization in this area is more spotty than you at first believed.

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I hope that future development in the gold-bearing shoot in the Piute on the 1000 level will continue in good ore. The flat dip of this orebody, if continuous to the level above, will give considerable stoping length, likewise tonnage, that will help prolong production.

Thanking you for the information submitted on the subjects we discussed when you were in Butte, I remain

Yours very truly,

MHG:KM

cc: CEW
RHS
TL
JFD

M. H. GIDEL

P.S. (On Chamberlain's & RHS copy only)

There are some rumors that the Walker Mine may close soon, depending upon their obtaining a higher price for copper to permit continuation of operations. In such an event, and unless you should be transferred to some other company operation in the Southwest, we will plan on having you continue work in the Geological Department at Butte.

M.H.G.

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FORM 396 8-40 2M M.P.C.

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

October 11, 1941

H. M. HARTMANN, MANAGER

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Mr. John F. Dugan, Gen. Supt. of Mines
International Smelting & Refining Company
818 Kearns Building
Salt Lake City, Utah

Dear Jack: SUBJECT: DEVELOPMENT

1086B Raise is up 74 feet on the slope from station 9812. This station shows on the sketch you have. The sketch showed the ore streak thinning as it went up and the face is now waste, so we have discontinued work here, at least for the present, and are confining our efforts in 1091B Drift South. The face here is 25 feet South of station 9813. The last samples I have from here, are West Rib, 4 feet - 4.10% Cu; .60 oz. Ag; .78 oz. Au. East Rib, 4 feet - 2.95% Cu; .60 oz. Ag; .58 oz. Au. Apparently the ore is wider than the drift and we are side-swiping to determine the width and also to get some production.

You will note that on the sill floor, the ore petered out quite rapidly going South. However, the showing here at present is excellent and we are pushing it, both to open it up and get ore.

Very truly yours,

H. M. Hartmann

HMH:dm
cc - Mr. Sales
Mr. Lyon

FORM 396 8-40 2M M.P.C.

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

October 8, 1941

H. M. HARTMANN, MANAGER

Mr. John F. Dugan, Gen. Supt. of Mines
International Smelting & Refining Company
818 Kearns Building
Salt Lake City, Utah

Dear Jack: SUBJECT: DEVELOPMENT

I have your letter of the 3rd, and also a copy of letter from Mr. Sales, of October 4th, regarding 1086B.

This place is being pushed to the utmost. I am enclosing geological sketch and sample map, which will give you an idea of what we have found so far. We started the drifts sooner than recommended by Mr. Sales, as the showing in the face of the raise was not nearly as good as it was at the time of his visit. At present, we are going ahead with the raise and the South Drift.

The hanging wall is bad, especially that part between the two streaks. Also as you will note, the ore is not at all solid. At present, we are attempting to open it up and in the mean time, get out some ore.

The higher gold values are certainly intriguing, especially for Walkermine, and I perfectly agree with Mr. Sales, that this place should be pushed. However, unless conditions change for the better, the irregularity and bad ground, together with the flat slope, 32 degrees, make extremely bad mining conditions.

I will keep you informed as to progress here.

Very truly yours,

H. M. Hartmann.

H. M. Hartmann

HMH:dm

cc - Mr. Sales (and maps)
Mr. Lyon (and maps)

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October 10, 1941.

Mr. H. M. Hartmann, Manager,
Walker Mining Company,
Walkermine, Calif.

Re: Walker Mining Co.,
Plumas Co., Calif.

Dear Henry:

I am in receipt of a copy of your letter and maps accompanying same to Jack Dugan, dated October 8th.

I was surprised but pleased to see the consistently high gold assays in the raise and workings from 1079-B Crosscut.

I hope you will find it possible to get substantial production from this body of better gold ore lying between the 1000 and 900 levels. I see no reason for thinking that the gold does not continue at a good average, and there is always the chance that you will find a more substantial block of the high grade chalcopyrite ore.

With best regards, I am

Very truly yours,

RHS:KM

cc: CHW
TL
JFD

RHSO H. SALES

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Mr. Sales.

ANACONDA COPPER MINING CO.

C O P Y

Walker Calif.

AIR MAIL

Salt Lake City, Utah
October 4, 1941

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

Dear Clyde:

I spent two days at the Walker mine, paying particular attention to the surface southwesterly from the Piute shaft, and the developments on the 1000 level. There is nothing in surface conditions in that area to justify further drilling.

I found a very good showing in the raise being run from crosscut 1079 B. My conclusion was, after seeing what had been done on the 1000, that the operation there should concentrate vigorously on that raise showing and quit all other work in waste on the level. I got the impression that this raise ore showing might be continuous to the 900 level. In other words, that there may exist quite a body of narrow but better grade ore. I recommended stopping all waste work and do everything possible to open up the raise ore showing. I believe Hartmann consulted with Dugan and waste work was stopped on my suggestion.

I just wanted to be sure that you understand that there is a possibility of mining a considerable amount of better grade gold-copper ore between the 1000 and 900 Piute levels. The ground did not look too good so that it may be necessary to use stulls. The stope width should be kept down in order to maintain the grade. As the raise advances I think it advisable to run an

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ANACONDA COPPER MINING CO.

COPY

2- Mr. Clyde E. Weed October 4, 1941

intermediate drift north and south - say at 50 feet above the 1000 .

Yours very truly,

RHS:P Reno H. Sales

cc: J. F. Dugan
Tom Lyon
H. M. Hartmann

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FORM 396 8-40 2M M.P.C.

WALKER MINING COMPANY
WALKERMINE
PLUMAS COUNTY, CALIFORNIA

September 20, 1941

H. M. HARTMANN, MANAGER

Walker

Mr. M. H. Gidel, Ass't. Chief Geologist
Anaconda Copper Mining Company
Hennessy Building
Butte, Montana

Dear Mr. Gidel:

Under separate cover, we are sending you a rough map of the surface geology of the 712 footwall area and a 200 scale print showing location, bearings, and lengths of possible underground drill holes.

Surface Geology

Iron Stained Schist. The ridges running North and West from Rocky Point, consist of altered iron stained schist, with two usually prominent joint patterns. The "flat" system, the more prominent of the two, has a general strike of N 11-20 degrees W, with a dip of from 24-30 degrees to the West. The vertical system strikes from N 40-50 degrees E. A third system can sometimes be seen, whose strike is about the same as the "flat", but whose dip is in the opposite direction.

Some small quartz - "gash veins" were found in the area. These veins appear to follow the joint pattern and vary from 1" to 2" in thickness. No evidence of any sulphides were seen in these quartz veins, nor was there any evidence of sulphide in any of the quartz float picked up in the vicinity.

As you drop down the East side of Rocky Point and the South side of the ridge running West, the schist appears to look fresher and less altered, with but little iron stain.

Silicious Schist. Near the approximate contact of the schist and the porphyry plug, the schist appears to have been silicified. It appears much harder and finer grained, shows little alteration, and has little if any jointing.

Diorite Porphyry. This formation consists of plus-minus 1/4" Plagioclase (?) phenocryst in a dark grey, fine grained material. It seems to form a plug in a relatively small area. Due to the fact that some of our schist weathers out into a psuedo-porphyritic looking rock, and to the fact that there are relatively few outcrops, the tracing of the actual boundary of this plug is very indefinite.

Quartz Diorite. This formation appears as two dikes, one cutting the porphyry plug near the middle, and the other running from the plug, a short ways into a heavily iron stained schist. A few sulphide specks, (chalcopyrite) were found in the latter.

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Alluvium and Talus. The majority of the area mapped has all actual contacts concealed by heavy vegetation and talus designated on the map by the symbol "Al" and the yellow color. All contacts on this map should be dotted, but were left solid for convenience.

Possible Vein Zone. There is little if any surface showing of mineralization to justify the existence of an orebody. But this is true of the entire 712 area. There are, however, erosional features that could indicate a possible vein zone. They are as follows:

1. Although not shown by the contours, there is a nearly vertical drop of 20 feet along the North side of the East-West ridge. The ground then flattens out on a bench approximately 60 feet wide and then again steepens, giving somewhat of a step-like effect. Pictures were taken of this area, but they turned out too poorly and will have to be retaken.

2. While the majority of the ridge is iron stained, there appears to be an increase in iron content in the area adjoining the North side of the ridge. Near the West edge of the ridge, a local magnetic zone was found which caused a Brunton to deviate from 40-60 degrees. It has been noticed underground, that most irregularities with a Brunton occur in the ore zones, and not the waste drifts.

3. There is a marked similarity of strike of the bench and the first portion of 517 fissure zone. The quartz diorite dike cutting the diorite porphyry could possibly line up with the diorite dike cut just before the swing of the vein on the 400 Level.

Method of Development and Prospecting.

The cheapest and best way to prospect this area, would be from a series of surface Diamond Drill or churn holes, drilled along the general strike in a ravine South of the area mapped. As the hanging wall is generally harder and less brecciated than the foot it was assumed that the vein would have an approximate dip of about 60 degrees to the South. The next best place would be in the ravine shown North of the ridge. However, there is no water available in these two areas. It would be next to impossible to haul water to the drills. This leaves the alternative of pumping water up through either 231ARs or 487CRs, and laying a water line to the drills, or to a reservoir. As it is already cold enough to freeze water in the pipes at night, and due to the fact that the area is in a region of heavy snow fall, neither Mr. Hartmann or I believe satisfactory surface drilling could be done before Spring.

Underground drilling could be done from three points. The shortest holes are from 712, but cut the vein zone at the poorest angle. All holes would have to be long, horizontal ones and should be surveyed. A list of the holes shown on the map appear below.

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Hole No.	Orebody	Starts From	Length	Bearing
1A	712	4840xcE	1430 ft.	S 58 deg. E
2A	712	408DxcE	1400 ft.	S 11 deg. E
3A	North	408EDN	1750 ft.	S 30 deg. W
4A	North	408EDN	1930 ft.	S 20 deg. W
5A	North	408EDN	2170 ft.	S 10 deg. W

At the present time, there is not a Diamond Drill machine here capable of drilling this length of hole.

I don't believe that holes from the surface would have to be this long, as the vertical difference in elevation between the surface zone and the 400 Level, is roughly 500 feet.

I hope that this information is satisfactory and supplies enough general data. This area should really have been mapped by plane table, but there was none available here. If I can supply any more information, please let me know and I'll be only too glad to do so. I will also welcome any criticism you may have to make.

Very truly yours,
V. R. Chamberlain

V. R. Chamberlain

VRC:dm

cc - Mr. Dugan
Mr. Lyon

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FORM 396 8-40 2M M.P.C.

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

September 9, 1941

H. M. HARTMANN, MANAGER

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

Dear Mr. Lyon:

Please find enclosed, geological sketches and classification table for development during the month of August; prints showing in yellow, mining operations with respect to Orebodies; monthly Analysis Sheet, and a report on Diamond Drilling for the month. The following is a resume of the classification table and of Prospect Diamond Drilling.

South, Central and North Orebodies. None

712 Orebody. 330CDN&S were driven from 325CRs to prospect the extent of the vein. The ore in the South drift appears to be pinching out. The face of the North drift is still in good ore. These drifts have been stopped for the present.

331CxcE was driven from 330CDS and is in a leached zone. About five feet of ore was encountered. This crosscut has been stopped.

332CxcW was driven from 330CDN to determine the width of the vein. The face is still in good ore. This crosscut has been stopped for the present.

598BRs is a finger raise driven preparatory to mining 517C Stope.

678EsDN was driven from 692DsxcW to prospect the sub level of the 517 footwall fissure zone. The ore pinched out and this drift has been stopped.

723EDN was driven from 711EDN to prospect the downward extension of ore developed in 678EsDN. Scattered specks of CuFeS2 and irregular quartz veins encountered. Entire advance is in waste. This heading has been stopped for the present.

1085EDS is being driven from 1077BxcE to prospect the ore encountered in D. D. Holes No. 74, 84, 88A, and 95. A few specks of sulfide encountered. Entire advance is in waste.

Piute Orebody. 878ADS is a stope drift being driven from 845B Stope to 845C Stope, to be used as a service drift and for increased safety.

1017DN is being driven from 706AW to connect with the Piute Orebody. This heading is now within 205 feet of holing through.

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1083EDN was driven from 1079ExcW to determine the extension of the ore. The face still shows about 4 feet of ore, but it appears to be pinching out against the footwall fault. This drift has been stopped.

1086ERs is a small exploratory raise being driven from 1079ExcW, to determine the upward extension of the ore. A 2 foot streak of good ore is showing on the footwall and the total width of the vein is 4 feet.

North Piute Development

947CDS is the main level heading being driven from 932CxcE to determine the southward extendsion of the orebody. Advance was in waste.

951CxcE was driven from the 3rd floor of 940CRs to prospect the hanging wall. The last 22 feet of advance was in waste. This crosscut is now being silled out in the zone of ore to form 934-40C Stope North and South. On the South side, the ore pinched out within 5 feet.

952CxcE was driven from 947CDS to provide a drill station from which to prospec the downward extension of the orebody. This crosscut is finished, the station cut, and Hole No. 107 is now being drilled N 67 degrees W at - 50 degrees.

953CDS is being driven from 942CRs to prospect the vein on the 5th floor above the sill. The face still shows ore and this drift has been temporarily stopped, while 954CxcW is being driven.

954CxcW is being driven from 953CDS to determine the width of the vein and will be continued to hole the 5th floor of 940CRs. The first 21 feet of crosscut is in ore.

Prospect Diamond Drilling.

Hole No. 91 was drilled N 78 degrees 42' W from 619ExcW at coordinate 17825N for a distance of 61 feet, to prospect for the footwall fissure zone. Occasional specks of sulfide and small quartz veinlets from 8 feet to 54 1/2 feet. Possible vein material from 51 to 55 1/2 feet. A few specks of bornite at plus, minus 57 1/2 feet.

Hole No. 92 was drilled N 77 degrees 15' W from 654EDN at coordinate 17875N and 9701E for a distance of 69 feet, to prospect the footwall fissure zone. Occasional specks of sulfide and small quartz veinlets from 8 1/2 to 42 feet and from 58 to 69 feet. Possible vein material from 58 to 69 feet.

Hole No. 94 was drilled S 86 degrees 06' E at ∠ 58 degrees 30' from 1082ExcW for a distance of 51 feet, to prospect the hanging wall. Entire hole is in barren schist.

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Hole No. 95 was completed from 94 feet to 105 feet. This 11 feet of core showed grey, broken schist. Refer to last month's report for data on this hole.

Hole No. 99 was drilled N 87 degrees 45' E at - 64 degrees 40' from 1082BxcW, for a distance of 101 feet, to prospect for the downward extension of the vein. Fault encountered at 68 feet. Few specks of bornite at plus, minus 85 feet. Remainder of hole barren schist.

Hole No. 102 was drilled S 78 degrees 25' E from 1076BxcE at coordinate 18290N for a distance of 260 feet, to further peg the ore found in hole No. 74. The first 31 feet were drilled off line and had to be redrilled. Specks of CuFeS2 at 7 feet, 11 1/2 feet and 16 feet and 45 feet. Specks sulfide in magnetite at 134 feet. Specks sulfide at 153 1/2 feet, 157 feet, and 160 feet. Specks of chrysocolla (?) at 186 feet. Fault encountered at 223 feet. Very poor vein zone from 246 feet to 250 feet.

Hole No. 105 was completed from 80 feet to 226 feet. Refer to last month's report for data on this hole.

Hole No. 106 was drilled N 45 degrees 25' E from 903BDS at coordinate 18592N for a distance of 75 feet, to prospect the hanging wall of the vein. Disseminated CuFeS2 specks in grey, green quartzy schist from 0 feet to 15 feet. Few specks of sulfide from 15 feet to 17 feet, and 42 feet and 43 feet. Remainder of hole, grey, barren schist. The following are split core assays on this hole.

	Cu	Ag	Au
0 - 5 feet	2.85	1.25	0.07
5 - 10 "	1.00	0.35	0.04
10 - 15 "	1.30	0.38	0.01

Respectfully submitted,
E. J. Lomnes

E. J. Lomnes
Chief Engineer

EJL:dm
Encl.

cc - Mr. Dugan
Mr. Sales

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WALKER MIN[illegible] COMPANY
DEVELOPMENT PROGR[illegible] - AUGUST, 1941

Orebody	Heading	Size	Ft. Adv.	Total Advance	Feet Ore	% Cu	Oz. Ag.	Oz. Au.	Feet Waste
712	(D) 330CDN	7x4	19	25	19	2.27	1.00	0.050	
	(D) 330CDS	7x4½	14	19	14	0.82	0.79	0.016	
	(D) 331CxcE	7x4	12	12	12	1.06	0.53	0.032	
	(D) 332CxcW	6x4	4	4	4	3.61	1.28	0.040	
	(M) 598BRs	7½x8	30	44	30	1.44	0.69	0.012	
	(D) 678EsDN	9x6	27	213	27	0.75	0.20	0.001	
	(D) 723EDN	10½x8½	32	75					32
	(D) 1085BDS	9x8½	48	84					48
	Total		186		106	1.37	0.64	0.020	80
PIUTE	(M) 878ADS	7x5	3	3	3	2.57	2.19	0.041	
	(D) 1017DN	9½x8½	65	5887					65
	(D) 1083BDN	8x7	17	17	17	1.87	0.44	0.122	
	(D) 1085BDS	9x9	36	84					36
	(D) 1086BRs	8½x7	6	6	6	2.30	0.78	0.041	
	Total		127		26	2.05	0.72	0.094	101
N. PIUTE	(D) 947CDS	7x5	15	113					15
	(D) 951CxcE	7x5	22	55					22
	(D) 952CxcE	9x7	139	180					139
	(D) 953CDS	7x5½	50	71	50	1.70	0.58	0.038	
	(D) 954CxcW	7x5	21	21	21	1.60	0.32	0.012	
	Total		247		71	1.67	0.50	0.030	176
	GRAND TOTAL		560		203	1.56	0.60	0.033	357

RECAPITULATION

MINING	33		33	1.54	0.83	0.015	
DEVELOPMENT	527		170	1.57	0.56	0.037	357

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MONTHLY SAMPLE ANALYSIS

WALKER MINING COMPANY — August 1 to 31, 1941

Place	Average Assay Width	Average Assay % Cu	Average Mining Width	Average Mining % Cu	Feet Waste	Feet Over-Break	Tons Waste Bkg	Tons Waste Sort	Tons Exc.	Min. or Dev.	Remarks
					DRIFTS						
330CDN	2.3	3.60	4.0	2.27	1.7				41	D	Waste included
330CDS	1.3	1.77	4.3	0.82	3.0				34	D	*Produced as ore
678E$_S$DN	1.7	1.12	5.4	0.75	3.7	3.7			115	D	*Produced as ore
723CDN			Waste				220		220	D	Produced as waste
878ADS	5.0	2.57	5.0	2.57					9	M	Waste included
947CDS			6.5	0.14					53	D	*Produced as ore
953CDS	4.7	2.01	5.9	1.70					151	M	
1017DN			Waste				388		388	D	Produced as waste
1083BDN	5.5	2.25	6.8	1.87	1.3				74	D	Waste included
1085BDS			Waste				497		497	D	Produced as waste
Average	4.3	1.94	5.9	1.85	1.6		1105		1581		
					*Crosscuts						
331ØxcE	4.0	1.48	7.6	1.06					26	D	
331xcE ss	2.0	1.65	6.0	0.95					9	D	Produced as ore
332xcW	4.0	3.81	4.0	3.81					7	D	
678E$_S$DN			6.5	0.41					18	D	Produced as ore;Crosscuts 6.5' of Structure
949CDS	49.5	1.88	63.0	1.56					120	M	Crosscuts 63' of structure
951CxcE			18.5	0.29					58	D	Produced as ore
952CxcE			65.0	0.16					674	D	Produced as ore
953CDS ss			3.5	0.15					6	M	Produced as ore;Crosscuts 3.5' of ore Struct
954CxcW	12.3	1.70	14.0	1.60					55	D	
1083BDN ss	6.0	2.10	10.0	1.34					27	D	
1085BDS ss			Waste				22		22	D	Produced as waste
Average	13.0	1.90	17.1	1.56			22		1022		
					Raises						
598BRs	4.1	1.79	5.3	1.44	1.2				123	M	Waste included
Average	4.1	1.79	5.3	1.44	1.2				123		

*Note: All drifts and raises marked with an asterisk and, all crosscuts , are excluded from averages and report totals.

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MONTHLY SA E ANALYSIS

WALKER MINING COMPANY — AUGUST 1 to 31, 1941

Place	Average Assay Width	Average Assay % CU	Average Mining Width	Average Mining % Cu	Feet Waste	Feet Over-Break	Tons Waste Bkg.	Tons Waste Sort	Tons Exc.	Min. or Dev.	Remarks
							STOPES				
405E	4.5	3.10	4.5	3.10			41		178		41 tons waste fill first period.
420B	10.0	1.29	25.7	0.83	15.7	0.9			4593		Footwall over break first period.
517C	3/4	1.35	6.9	1.10	3.4	3.4			1644		Footwall & hanging wall overbreak.
605E	11.4	1.74	12.4	1.64	1.0				3558		Included waste.
617D	4.3	2.21	4.3	2.21					1681		Slabbing from back first period.
705A	2.8	3.21	3.4	2.68	0.6	0.6			76		Hangingwall & footwall overbreak.
740-760Pil	6.3	1.51	7.7	1.38	1.4	1.4			78		Footwall overbreak.
845C	3.0	1.81	6.4	0.89	3.4	3.4			214		Footwall overbreak.
855C	7.2	1.63	7.3	1.60	0.1				2722		Slab 610cu from back;Waste included 2nd period
915A	3.6	1.42	8.0	0.72	4.4	2.6			367		Footwall overbreak.
915C	7.0	1.50	8.3	1.40	1.3	0.7			1390		Footwall overbreak first period;
934-40 N	17.0	1.76	23.0	1.47	6.0				131		Included waste.
934-40 S	1.0	1.30	21.0	0.50	20.0	20.0			123		S rib 951CxcE- poorly mineralized 3 of xc.
945			10.0	0.79	10.0				627		Muck samples; waste included.
945A	2.8	1.43	8.0	0.93	5.2	1.5			1709		Footwall overbreak 1st period;Muck samples 2nd period.
946A	4.4	2.70	8.1	1.58	3.7	1.6			388		Footwall overbreak.
955C	8.0	1.26	8.0	1.26					119		
1080C	5.3	1.85	6.0	1.69	0.7	0.7			83		Footwall overbreak.
Average	6.3	1.69	10.6	1.34	4.3	1.0			19681		

Mine Averages - Month Of August,1941

6.2	1.69	9.6	1.35	3.4	1.0	1146		21385	

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WALKER MINING COMPANY

DIAMOND DRILL REPORT — August 1 - 15, 1941, Incl.

845A STOPE P.O.B.

Hole No.		Length
706A	14	20
707A		44
708A		15
709A		44
710A		53
711A		25
712A		30
713A		40
714A		6
715A		37
716A		30
717A		35
718A		35
719A		25
Total		419

419 feet of blast holes at $1.47 per foot = $ 615.93

Includes footage already paid for
Hole not finished at end of Period

PROSPECT HOLES

Piute Orebody	1017DN	Hole #105	80 - 226 ft. = 146 ft. @ $1.47 per ft.		$ 214.62
	1077BxcE	Hole #95	94 - 105 ft. = 11 ft. @ $1.47 per ft.		16.17
712 Orebody	1076BxcE	Hole #102A	0 - 31 ft. = 31 ft. @ $1.47 per ft.		45.57
	1076BxcE	Hole #102	0 - 154 ft. = 154 ft. @ $1.47 per ft.		226.38
					$ 502.74

MISCELLANEOUS

None

PERIOD RECAPITULATION

Blast Holes:	Piute Orebody:	419 ft. of holes @ $1.47 per ft.	$ 615.93
Prospect Holes:	Piute Orebody:	157 ft. of holes @ $1.47 per ft.	230.79
	712 Orebody:	185 ft. of holes @ $1.47 per ft.	271.95
			$1,118.67

Approved.
H. V. Hartmann

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WALKER MINING COMPANY

DIAMOND DRILL REPORT

August 16 - 31, 1941, Incl.

845A STOPE

Hole No.		Length
719A	29 *	4
720A		30
721A		35
Total		69

69 feet of blast holes at $1.47 per foot = $ 101.43

* Total length of holes (includes footage already paid for)
** Hole not finished at end of Period

PROSPECT HOLES

712 Orebody	1076BxcE	Hole No. 102	154 - 260 ft. = 106 ft. @ $1.47 per ft.	$	155.82
	654ExcW	Hole No. 92	0 - 69 ft. = 69 ft. @ $1.47 per ft.		101.43
	619EDS	Hole No. 91	0 - 61 ft. = 61 ft. @ $1.47 per ft.		89.67
Piute Orebody	903EDS	Hole No. 106	0 - 75 ft. = 75 ft. @ $1.47 per ft.		110.25
	1082BxcW	Hole No. 94	0 - 51 ft. = 51 ft. @ $1.47 per ft.		74.97
	1082BxcW	Hole No. 99	0 - 101 ft. = 101 ft. @ $1.47 per ft.		148.47
			Total	$	680.61

MISCELLANEOUS

Piute Orebody	Prospect Holes No. 99 - 2 hrs. on Walker Accts. @ $1.439 per hr.	$ 2.88
	Prospect Holes No. 106 - 2 hrs. on Walker Accts. @ $1.439 per hr.	2.88
	Blast Holes - 845A Stope - 4 hrs. on Walker Accts. @ $1.439 per hr.	5.76
712 Orebody	Prospect Hole No. 92 - 2 hrs. on Walker Accts. @ $1.439 per hr.	2.88
	Prospect Hole No. 91 - 1 hr. on Walker Accts. @ $1.439 per hr.	1.44
	Total	$ 15.84

RECAPITUALATION(PERIOD)

Blast Holes - Piute Orebody - 69 ft. hole @ $1.47 per ft.	$ 101.43
Prospect Holes - Piute Orebody - 227 ft. hole @ $1.47 per ft.	333.69
Prospect Holes - 712 Orebody - 236 ft. hole @ $1.47 per ft.	346.92
Miscellaneous - Piute Orebody - Prospect Holes, 4 hrs. on Walker Accts. at $1.439 per hr.	5.76
Piute Orebody - Blast Holes, 4 hrs. on Walker Accts. at $1.439 per hr.	5.76
712 Orebody - Prospect Holes, 3 hrs. on Walker Accts. at $1.439 per hr.	4.32
Total	$ 797.88

RECAPITULATION(MONTH)

Blast Holes - Piute Orebody - 488 ft. hole @ $1.47 per ft.	$ 717.36
Prospect Holes - Piute Orebody - 384 ft. hole @ $1.47 per ft.	564.48
712 Orebody - 421 ft. hole @ $1.47 per ft.	618.87
Miscellaneous - Piute Orebody - Blast Holes, 4 hrs. on Walker Accounts at $1.439 per hr.	5.76
Piute Orebody - Prospect Holes, 4 hrs. on Walker Accounts at $1.439 per hr.	5.76
712 Orebody - Prospect Holes, 3 hrs. on Walker Accounts at $1.439 per hr.	4.32
Total	$1,916.55

approved. H. W. Hardman

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FORM 396 2-1-41-2M

WALKER MINING COMPANY

WALKERMINE

PLUMAS COUNTY, CALIFORNIA

H. M. HARTMANN, MANAGER

September 5,1941

Re: Walker Mine

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

Dear Mr. Gidel:

I have not had time to finish mapping the ridge and diorite plug about which we talked when I visited with you last August 22nd.The weather was exstremly bad for the first week after I came back - rain and fog. However, I've been over the area and it sure looks interesting to me.

As we have now just about finished the 1st of the month reports, I should be able to finish the surface work by next Monday or Tuesday and will send you a map with my recommendation as to drill holes.

The ore in 1071BDN turned out to be very spotty and the check assays turned out poorly. I will also send you a sketch of this.

Mr. Hartman gave all the staff with the exception of Lomnes and myself, a month's notice to the effect that the Mine might possibly be closed by Oct. 1st. Looks like I'd better be looking for one of these defence jobs as I don't imagine that my deferment will do me much good if this place closes.

Best regards to you, your wife and family. I wish I could have had a longer visit with you.

Very truly yours,

V. R. Chamberlain

V. R. Chamberlain

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INTERNATIONAL SMELTING AND REFINING COMPANY

Kearns Building, Salt Lake City, Utah

TOM LYON
GEOLOGICAL DEPARTMENT

ANACONDA
from mine to consumer

September 4, 1941

Mr. Reno H. Sales
P. O. Box 457
Butte, Montana

WALKER MINE

Dear Reno:

I have your letter of September 2 regarding the continuation of Drill Hole No. 48 at the Walker mine to get under the outcrop, to which Gidel refers in his letter of August 30.

According to Mr. Gidel's letter, Chamberlain was going to map this surface area immediately and outline at least a couple of drill holes to test the zone. I have very little information on this area in my office, in fact, not enough to definitely spot a drill hole. I am writing to Chamberlain to get the information as soon as possible. As soon as I hear from Chamberlain I will let you know.

Very truly yours,

Tom Lyon

TL:P

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Sept. 2, 1941.

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

Re: Walker Mine,
Plumas Co., Calif.

Dear Tom:

Gidel has in mind that we should prospect further into the footwall of the 517 vein area. I note we have drilled No. 48 Hole from 484 Crosscut. What do you think of continuing No. 48 for some distance, say to a total depth of 800 feet or even more, provided the drilling met no serious difficulties? It may be that for a long hole we would have to begin over again with a larger bit.

I understand McClintock is still there with his outfit, so we will have to do something about it before he gets away.

If you agree with the above suggestion, please take it up with Elton.

Yours very truly,

RENO H. SALES

MHS:RM

cc: CEW
JOE
JFD

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