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Reconstruction Finance Corporation Arizona Records

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325 Heard Bldg. Phoenix, Arisona Hovember 16, 1945

alts mine RTC fl

TULLY - Aget. Chief - Mining Section RFC - Washington (25) D. C. Re: B. & R M neg - Docket No. B-MD-4801

On November 10th, I inspected the progress being made at this property, and found that the applicant is raising on the vein in the main drift, and slowly advancing the main drift ahead. Unfortunately they have not been able to open up a sizeable ore body, although they have been able to ship one car of ore. Since the mine was last inspected by Wr. Casier, in August, the main drift has been advanced to the East a distance of 28 feet, and the attabhed assay was taken in the new face across a width of 27 inches, and assayed .03 os. of gold, .06 oz. of silver, .95% copper, .90% lead, and 1.05% sine. This is not commercial ore, although from a geological standpoint the vein looks better here since it is now following a well defined fissure, and could open up into a commercial ore body for this reason. The raise which was started 110 feet back from the new Bast face sampled by me, is now up a height of 25 feet above the track level, and has been well timbered, and is in good condition. Unfortunately, the back of this raise is not now in commercial ore so was not sampled.

The ore shipped by the applicant, came from sorted high grade produced from the drift operation along the vein, and consits of two (2) different types of ore, one lead and the other copper. The lead ore amounted to 16.39 dry tons, assaying .02 os. gold, 8.6 os. silver, 21.0% lead, and 0.97% copper. The copper ore amounting to 17.036 dry tons, assaying .33 os. gold, 9.0 os. silver, and 3.29% copper. The sine in these two (2) lots ran a little over 1%

Since the applicant is now out of funds, he will be unable to do any further development on the mine. However, the adjoining property which is working on the same vein is applying for a Government loan, and the application together with my report will be submitted to Washington as soon as available.

> WH. B. MAITLAND Supervising Engineer

Dorfet No B-ND-4801 Date anthonyatin for Exameter Recent Jan 15, 1943 Date of Examitan Feb 10, 11, 1943 Date of Report Feb 60, 1943 1. Mane and address of applicant Mane - B+ P Mine alme, addres - PO, Box 892 City + Stite - Mogalo, Arryona Correspondent Mr. H. J. Brumawicker, President 2. Chraster of Project To develope a coppler, lead, and your more by means of an acht timel and raises: Localin of mine - Alto mine Journship, range, selen - See 12-13, T 215, P14E G+SPB+M County + State - Lyndell Mining Protect, Sonte Cong G. Name + distance by road nearest railing station -The property is 14 miles by road noth mut of Patagnia a torm on the Southern Pacific Railroad Condition + seasonal assemblity of road, more to salway - The road from Patagonia to the onne is a will gended dut road except for the last two miles men the mine. This section of themed is the marrow and rocky but is passable for cars and trucks. The name should be acresible at all does of the year

4 appliant The applicant A. J. Brunswicker, Prendut and manager of the company and more is an energetic and metalligist man of middle age. He has had considerable practical mining experience in asyona and has hed two years bring training in college, I was well satisfied with the work done to date on the property and his plan of operation in the Porture seems sound. I believe him fully capable of operating this project and he seems to be mell above the average of the applicants of home contacted. Rotte he and his company enjoy a good regulation in this district. He now engloys two men a mine and a mechanic and both seem competent men. 5. Loan Requested after thoroughly drawning the project with the applicant he has agreed with me on the nature of the expenditures and feels that \$10,000 mill be sufficient to develope the property 6. Description of Project A beneal Features There are certain legal factors modered in this project that warrent some discussion. First, there are fixed minimum monthly payments due on the lease (2) second, the vern will be morked them a common time with the adjoining projecty, and third the applicant holds a lease from a second party who in turn leases from the owners

11 The represe present leave under unbook the B+R mines are operating calls for a \$ 100 fixed monthly minimum royalty. The Washington office of the P. F.C. have regrested that this contract be subordinated to the repayment of the loan. The applicant has informed me that the lease Long Contact ming Cor from which the applicant has a lene has refused to subordinate These payments. However as stated in the attached letter from the applicant, he would arrange the necessary bond with a magales bank to guarantee the payment of this fixed royalty for the life of the loan, If satisfactory to Washington this elimnitis this legal defining. 2. The B+R. Mines entered into an agreement mith the Long Contact Mining Co to jointly drive the present 1200 foot crossent to contact the alto view 500 feet below its onterop, This work has been completed mith the B+R Mines paying these show of the Turnel cost. as the Long Contact Mining Company is apparently not the most agreeable and efficient partner for such a common tunnel operation il helieve that our legal department should sentinging the accompanying legal documents and stopy intorder to make certain that in the future army possible non-cooperative act, on the part of the Long Contact Muny Co. will not haves present operation of the mine by The B+P mines on the section of the vein. The only possible nethod of efficiently stoping the one from these new under the project necessitates the use of this common crossent trivel by the B+R

(3)

(3) attached too the application are copies of the leases from the Long Contact Mining Co to the applicant Conjuny (B+R mines). However the Long Contact Mung lo merely holds a lease from E. D. morton the claim owner. Mr morton is armon manager of the Pagle Putcher Mung lo and is a reputable mung man. However in the ensuit of The farline of the Long Contact Mung lo their leve would be vaided and as a consequente the appliemte lesse sont-lesse would also be vinded, I have written the applicant suggesting that he often on option from the classic owner that would go mto effect when, as, and if the Long Contact Mmg company forfests their nights to the claims. Since my report will probably reach the Washington office before heming from the applicant of suggest that the legal department examine this phase of The mother application more fully and decide on the pupe procedure B Casting Demlopment This property has been marked at narrows times since 1687 to the present time, the total production is not known but could have been considerably over \$6000,000. The principal metals perchaed have cheen gold, silver, lend, copper, and gine. M. S. a.S. Bull 582, of which a copy arrangement the application, well describes the development and gelogy of this mine. I suspected all of the accessible workings and found the following general conditions! -1. The alto new hashen stoped in places for a sein length of over 2000 feet Let below the new orderen with one reported in the bottom of the

3. The new as stoped varies from 6 miles to 12 feet mide unto a probable average of 2 feet 4. One minule are galena, cermente, argentite, Chalcopyrte, pyrite, tetrahedrite, chalcocite, cupite + gold in a quarty gangue containing min calete and chiledony. 5. The vern is ma feasure and it is banded shows a banded structure at navins points 6. He country rock is latite, andisite, and gramto porphyny 7. There are three distinct news outropping on the surface with some stopping done on all three news and apparently Do shown by the dip trese news should come together at depth 8. She alto the view is nearly ventual in dry and strikes a little north of west. 9. Commercial ore has been encountered in the lower crossent mhub interests the alto view 500 feet below its onterop 13. and 200 feet below the lowest workings 10 the applicant has a lease on the eistern helf of the alto vein 11. My sanyling indicates that the lead and your values merease mitt depth 4 ny white gold, when, and copper malues apparently decrease muto depth 1 108

Ore Reserves I examined all of the surfuse workings along the alto View but could not enter most of them as they were partly comed and no ladders were available My sampling of these morlange and shown on the attached vertical section along the plane of the nein a clt is obvious that a large tomage of one has been shipped from this upper norlings. Here are afout 75,000 tons of low grade ore on the various dramps on The surface. The lower 1200 foot crossest interests the new about 300 feet below the bottom of there old stopes. The accompanying U.S. a.S. report state that one was found in the lowest of the upper morlings and the new lower crosset intersect a number of interesting looking veins and on the Stronget vem in this crossent the Long Contact Co have dufted east to the property line of the B+R mus and are now starting a raise from this duft on their side of the projects line The one in this lower duft is entirely sulfide and while if is narrow (a little one 1') the country such is partly muneralnyed on both sides of this high grade section, elt is my openion that they have not as yet cut an one shoot in this view but There will be a considerable tonnage of one available between this lower duft and the old makings above. My sangling of this or is shown on my map. The average of all 7 samples of took on the alto Vein show 0.09 on Gold, 165 og silver, 5.65% copper

probable or mute a net profest of \$10 per ton or a total net of \$60,000. Expenditures to date by applicant Canyony The applicants semperintendent informed me his company has spent in expess of \$38,000 on the property to date of this amount \$4483.14 was spent as there share of the cost of drining the lower crossent. He has kept account cost words of The crossiting and for 546 feet of cross timel the total cost was . \$15,57 per fort. The grand is hard and regumes no Timber. The crossent is 6 by 7 in crosssection and is completements track, an swater lines, ment pipe, etc. In doing the proposed development mak the applicant estimates that the one showed should pay one half of the dufting and raining cost. The applicant conyenny started make on This property in December 1940 and first planned to mork the low grade dungs or the surface. Of a consequence they built a good mell constructed mill on the top of the hill. This will consists of The following! -1. mill Building 2. 9×14 allis chalmers your omsher. 3. 1-84×24 rolls 4 200 ton mooden on fin 5. conveyor belto, elevator, fuder 6. 2 Southwestern 24" grass 7. 2 willey lable 8 20,000 wooden Swater tank 9. Necessary gasoline engines for above egyptime

10. Machine shope contaming latte, dill press, power backson, power gunder, welding outfit, blacksmith tooks, power timber saw, and muscellineous hand tooks In addition at the lower crossent the apphrant has a 165 on ft compressor and gas engine 2, garhhammus, powder magazine, pipe, etc. for operating personnel.

chander to franch mater for the mill the applicant intended to purp unter from the old morkings. He found however that the mater contained so much copper that stell pringe equipment was meders and he was much to Ruschese the necessary frass or stamless steel Lyngund che addition he found that the old morkings were so ladly coved that a cheap and continuis supply of water could not le obtained from this source of a consequence the mill program was abandoned charder to obtain nate from the valley below a 5 mile piple line nott a left of our soo feet would be necessary and the applicant did not have the necessary funds for ducloping this unter (9) supply. attached to the application is one copy of a shipment to the smelter of copper obtained from passing the mine mater over I'm cans and also one shipment of concentrates from the mill I did not sample the old drungs so do not know if their testalment by milling is feisible

at the present line Three men are morning on the property lower crossent in preparation for the proposed development work, the applicant The applicant intends to proceed mutto the development program as outlined in this report whether or not the P.F.C. grants a loan. Since the finds of the stockholders are limited These work will be slow hence the reason for a loan application. Matine of Proposed Expenditures Undergrand Work 200' of daft end on ven from present force of lower duft off count @ \$20/ft 100 of raises on mem off proposed duft @ 4/7/foot 1700.00 Equipment Purchases Pent on present conquessor Como @ 450/mo ട്ടരം പ I med IR. 549 jackhammer + futtings 200.00 I used automatic stopen 225.00 Stut + hts, hose, ite 250.00 chardentel appense Recordition camp 300.00 Ore chute, timber, etc 400.00 Insurance deposit J 00.00 chundratel upone + loan interest 2325,00 Total expenditures moder bom \$10,000.00 I have discussed the above program and expenditues muth the applicant and he is in full agreement

The applicant fits that the above program can be conflicted within 6 months and that muth an expeditives of \$10,000 the projects mel be self sufficient. alt is contemplated to hime the following men meder très project maddition to the miner, mechanic and superintendent now employed; I muse @ \$7,50/day land 2 shoules @ \$6.75/day. all development will be done on the nein and shipping one should be perdered from the first darfting operations. The geology and one indications are very favorable for the presence of a large high guich continuous sein available for stoping from the lover crosset. This project should become in a very short time a sustained produce of considerable amounts of copper and lead only three additional employees will be necessary moder this project and only a small ch addition only second hand egyment and local Cabor will be noed. It is my opinion that this people could develope into a large producer and the one is of sufficient grade to assure a profitable operation. The chief objection to this project are The legal conglications whereby discussed in This report

If the legal defension can be retified I would recommed a lown on this projectly as the operating personnel appear cayable of making a success of the project ma B marked Wm D. mark Enland please find my report on the above captured dorlet together with the following 1. One original application 2. The assay cetification 3 Thru punt shetches of sisses workings 4 One emfore from 5 One bojogophi nop 6 Blue punt of mine Mm Bm

4300 2

Parise 300' @ 32 labor + supplies 9600.00 Cleaning and old duft top of hellshaft Paymenton Horst (Ingga) + 750' eable 200.00 570 1600 300,00 Hanlage of supplies 1200,00 300 Sugerum 6 m @ \$200.00 11000 Insurance, Social Secunts & Umanylog clim 900.00 Bank changes 6 mo 75,00 Loan interest 6 mm 300.00 Reserve for contingues 2 425.00 and belief, there exists no agreement or antiermenting with a \$15.2.22.00, et on por roll have been discolly on indirectly made; and that A 12, 000 .00 and

ho ...... day of .........

n2 makes and and purito cach person

id CORPORATION; that the attached pay-

A ROBINES INCORPORATED A

It / day on some 1 shift/day.

PURSUANT TO ACT OF JUNE 13, 1931

2° ft /day 150.

B+R spent 40,000.00 Long Contact yent 55,000.00

154/0

## AFFIDAVIT TO ACCOMPANY SEMI-MONTHLY PAY ROLLS PURSUANT TO ACT OF JUNE 13, 1934

STATE OF ARIZONA		~~
COUNTY OF SANTA CRUZ	$\int$	SS

I, H. J. Brunswicker, President, do hereby certify that I am the Employee of the
B & R MINES, INCORPORATED, who supervises the payment of the employees of
said CORPORATION; that the attached pay roll is a true and accurate report of the
full semi-monthly wages due and paid to each person employed by the said COR-
PORATION for the development of Alto Mine-East End, for the semi-monthly pay
roll period from the day of, 194, to the day
of, 194; that no rebates or deductions (other than Social
Security and Victory Tax), from any wages due any person as set out on the attached
pay roll have been directly or indirectly made; and that, to the best of my knowledge
and belief, there exists no agreement or understanding with any person employed on
the project, or any person whatsoever, pursuant to which it is contemplated that I or
any one else shall, directly or indirectly, by force, intimidation, threat or otherwise,
induce or receive any deductions or rebates in any manner whatsoever from any sum
paid or to be paid to any person at any time for labor performed or to be performed
under the contract for the above named project.
Sworn to before me this day of, 194
Notary Public

### Premium

Cu = 92 ll x 85% = 78 x, 05 = 3.91

Pb = 100 lbx 95% = 95x,0275 = 2.61

Prenn Smuller Lotal

8.40

\$ 14.92

200 law

Waite of one

y'3 000

Valley National Bank PHOENIX, ARIZONA		Dat	e	194
		Re:	Long Contact Sub-Requisit Docket No.	ion No
Gentlemen:				
Requisition is hereby made in accordance with the terms of purchase of supplies, compense such funds available, for such p	f the Deposit Agree ation insurance, equ	ment execute ipment, and	e <b>d by</b> the und	ersigned, to cover
ITEM CHECK NO.	PAYEE	MATERIAL	PURCHASED	AMOUNT
1				
2				
3				
4				·
<b>5</b>		•		
6				
7	·			
			TOTAL .	
Requisition is hereby als	o made for the payr	nent out of	the "RFC Acc	count" of the sum
not to exceed \$ t	to cover payrolls for	the period		194 to
employees, respectively, as will livered to the Depositary at the understood and agreed that an the total amount of payroll check. Account".	more particularly a ne time payroll chec y difference between	appear on voks are issue a said amoun	erified (certiced covering s at requisitione	fied) payrolls de- aid period. It is d for payrolls and
APPROVED:	Ve	ery truly you	ars,	
Reconstruction Finance Co	orporation	LONG (	CONTACT M	INING CO.
Chief, Self-Liquid	B	ў	. ` .	Manager

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50 2.55
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An Ag Ca Pb Za  

$$3-0.15-20.0-5.6-7.0-2.4$$
  
 $2\frac{1}{2}-0.10-15.0-4.3-8.2-4.8$   
 $30.15-13.5-4.1-Tr-5.7$   
 $30.40-48.5-14.0-15.2-12.9$   
 $0.13-16.8-4.6-5.0-4.3$ 

Smeller Pas  

$$An = 0.13 \times 32.32$$
 = 4.20  
 $Ag = 16.8 - 0.5 = 16.3 \times 9.5 \times 0.69125 = 10.69$   
 $Ch = 4.6 - 0.5 = 4.1 = 82.16.5 \times 0.0555 = 4.55$   
 $Pb = 5.0 - 1.5 = 3.5 = 70.500 \times 0.049 = 3.89$ 

Dealnet

0825

2.50

Smelter charge 3.50

Excess 11 0.75

Bullion fort tax 0.05

Insolable 0.20

Sulfur 2.50

B.1 0.60

7.60

<u>5,60</u> 9,**3**3

8.40

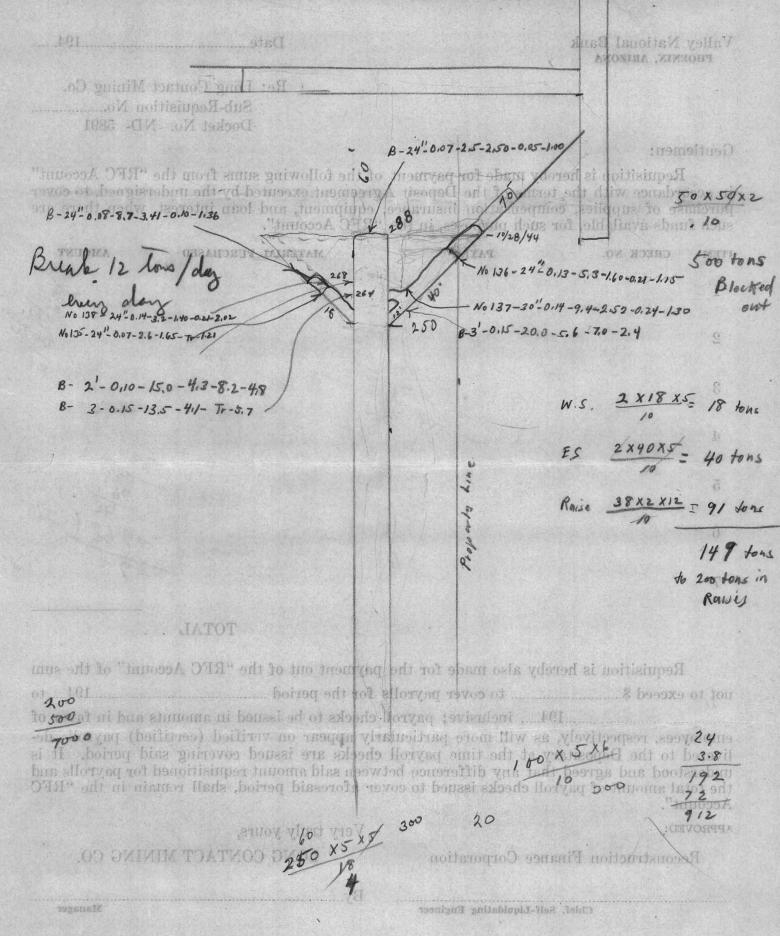
Net smeller

Freight
Hanling 12,75 + 0.08
Switching
Hanley

2.57 2.83 .05

Less 10% Roy Net smulter pry.

	National Bank		Dat	e	194
			Re:	Long Contac Sub-Requisit Docket No.	ion No
Gentler	nen:				
in acco	Requisition is hereby rdance with the tern se of supplies, comp ands available, for su	ns of the Deposit A ensation insurance,	greement execut equipment, and	ed by the unde	ersigned, to cover
ITEM	CHECK NO.	PAYEE	MATERIAL	PURCHASED	AMOUNT
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			*	TOTAL .	•
	Requisition is hereby	•			
not to	exceed \$	to cover payrolls	s for the period		194 to
	194	,			
livered unders	ees, respectively, as to the Depositary a tood and agreed that al amount of payroll at".	t the time payroll any difference bet	checks are issue ween said amoun	ed covering sa t requisitioned	aid period. It is differ payrolls and
APPROVI	ED:		Very truly you	ırs,	
${ m Re}$	construction Finance	e Corporation		CONTACT MI	NING CO.
	Chief, Self-	Liquidating Engineer	Ву	••••••••••	Manager



Valley National Bank PHOENIX, ARIZONA	Datę	194
	Re: Long Conta Sub-Requisi Docket No.	tion No
Gentlemen:		
Requisition is hereby made for payment in accordance with the terms of the Deposit a purchase of supplies, compensation insurance such funds available, for such purposes, in the	Agreement executed by the unce, equipment, and loan interes	lersigned, to cover
ITEM CHECK NO. PAYEE	MATERIAL PURCHASED	AMOUNT
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The state of the s	16	1505/
2	184(5) 1:47	00
3	5 6'82 Shb	5421
4	s'bt	20
5	La 132.	96
6	8	19.68
S to		102
7		111
	TOTAL	
	IOIAL	
Requisition is hereby also made for the	payment out of the "RFC Ac	count" of the sum
not to exceed \$ to cover payrol.		
194, inclusive; payro		
employees, respectively, as will more particularly at the time payroll understood and agreed that any difference be the total amount of payroll checks issued to co Account".	arly appear on verified (certicle checks are issued covering setween said amount requisitions	fied) payrolls de- aid period. It is ed for payrolls and
APPROVED:	Very truly yours,	
Reconstruction Finance Corporation	LONG CONTACT M	INING CO.
	Ву	
	By	

# CERTIFICATE OF ASSAY FOR

Miller's Assay Office Hugo W. Miller, Owner

Established in 1913 - Nogales, Arizona Registered Mining Engineer

Laboratory	Customer's Marks On Samples As	(Oro)	SILVER (Plata)	COPPER	LEAD	
Number	Submitted	Troy Ounces Per Ton (2000 Lbs.)	Troy Ounces Ton (2000 Lbs.)	Percent	(Fiomo) Percent	
	Face 2 gouge + pyrite	20.0	0 9	0.7	0.1	<b> </b>
	6" Highgrade ore shoot 47 long	0110	39,5	6:5	22,5	
	36" sulfile con der of face	0.0	20.0	2:7	11.5	4. 概
	0ct 22,1928 - Dec 22,1930  55,477 tens Aver. 6:11ars from old spanish workings on surface. Also becan had schund down but war no record.	90.09	36.00	8.83	22.67	7994
Note	Note: Sample Pulps Kept Thirty Days in Case Further Analyses Desired.	ther Analyses	Desired.			1

Date

1 oz. Troy has 31.1035 grams.

1 Kilo has 32.1507 oz. Troy

1 lb. avoirdupois has 14.583 oz. Troy.

Charges

Assayer.

# ARIZONA TESTING LABORATORIES ANALYTICAL AND CONSULTING CHEMISTS ASSAYERS, MINING ENGINEERS

CLAUDE E. MCLEAN P. O. BOX 1888

823 EAST VAN BUREN STREET

PHOENIX, ARIZONA ASSAY CERTIFICATE

aitland, Supervising Engineer, NFC

Σ

Suilding Arizona Heard

WE HAVE ASSAYED THE SAMPLES RECEIVED FROM YOU AND FIND THE RESULTS AS FOLLOWS: GOLD FIGURED AT \$ 25000 PER OUNCE. PER OUNCE. SILVER FIGURED AT \$\_ LAB. FORM 2

LAB. NO.	SAMPLE	GOLD	LD	SIL	SILVER		PERCENTAGES	TAGES	PART
		OZ. PER TON VALUE	VALUE	OZ. PER TON	VALUE	COPPER	LEAD	1	1000
63720	7256	80.0	\$2,90	5.20	82.26	1.59%	0.20%		
53721	126	0.36	5.60	7.80	5.46	1.70%	0.48%		
53722	P. C.	0.14	4.90	10.60	7.42	2,58%	0.69%		
53723	920	0.08	8.80	3.40	2.58	1.45%	0,148		
		169.35							
							ETE.	RED AS	/
							STO TO	CATERL	JE
							(RR)	AUDE F 72	R
					×		0	HOLEAN	
							08	Ash.	
							OCI de	3	

LABORATORIES ARIZONA TESTING RESPECTFULLY SUBMITTED.

CHARGES \$12.00

ASSAYER

Melioan

Phoenix, Arizona,

## ARIZONA ASSAY CHAS. A. DIEHL

Phone 3-4001

815 North First Street This Certifies That samples submitted for assay by Mr. Mm. B. Maltland.

OFFICE 0et, 20, 1944.

P. O. Box 1148

contain as follows per ton of 2000 lbs. Avoir.

	REMARKS						1	
To the	SULPHUR					51,81		
TAGE	ンまる	1.21	1,15	1.30	20.0%			
PERCENTAGE	TEN	1.65 Trace	.21	•24	.21			
10	COPPERS TRAIN COM	1,65	1.60	2.52	1.40			
TOTAL VALUE	Ounces Hundths \$35.00 Of Gold and Silver							
VALUE (0z.)	\$35.00	\$2,45	\$4.55	\$4.90	\$4.90			
GOLD	Ounces Hundths	400	.13	.14	.14			
VALUE (02)			2		***	# ·	* * * * * * * * * * * * * * * * * * *	
SILVER	Ounces   Tenths	80	5,3	9.4	3.8	•		
2 0 7 0	LONG CONTACT MG. CO	Width 24"	178 m	30"	24"	Compo (135,136,137,138)		
,	LONG	135	136	137	138	Compo (		

Charges \$ 20,00

Assayer ARIZONA ASSAY OFFICE

1v-40612 2-18-44 QUPOND wer man Power Comman 428 Security Blog 11 45 02 2 expansion joint line orlers Elected stel + justito 2 hasps of 2 locks V Cananas + Doliner Cum soup direct front Ovalatine bread my hol

Long Control 70'-80 above adit .05 A4 8.0 Ag 94/63 0. 72 % Ca 29.00 % 76 3,1 90 24 Jig Cane ,05 5,00, 0.64, 18,5,211 Pickedore, 05 415, 0,55, 12,0,3,2 25 ton ore 129 top of raise 5/23/44 Raise in 66 4 some mode 63 15 Ince April 3 50 days 62 42 working days 220 to go

PROENTE, ARIZONA

such funds available, for such purposes, in the "RFC Account". in accordance with the torms of the Deposif Agreement executed by the undusigned, to cover Requisition is hereby made for payment of the following sums from the "RFC Account"

CHECK NO.

EVAME

payrolls de-

258 X16

Oct 15,1944 Money available to Both elentes hold 292 tons to 258 to bottom of one 20 tons of one in clutes at top

ant payable, bill trools 436.0 Payroll to COLOR DELLETTE TOE THE DELLOT 400,00 reducing is properly balance of 3736.62 and of the same

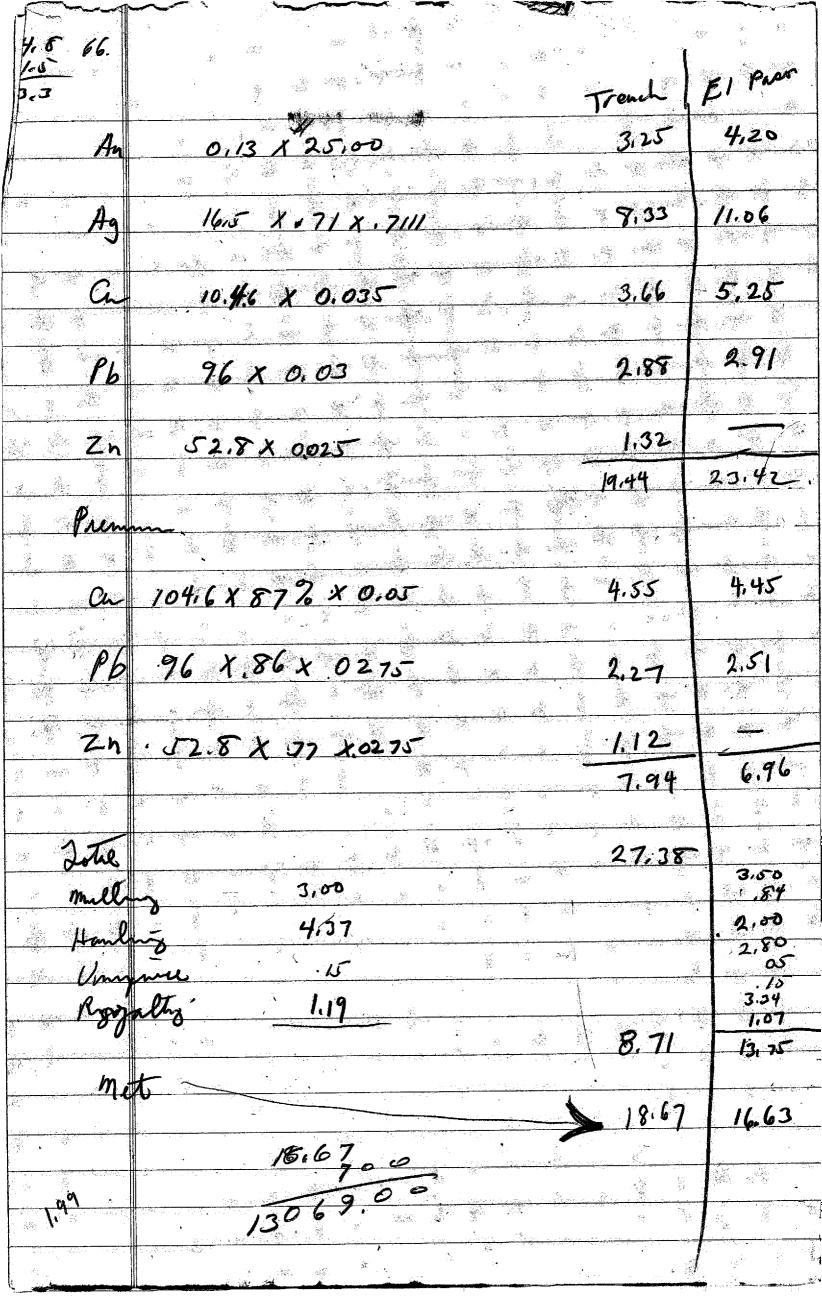
the total amount Esh 3572 .62 jot bull of and 436. So sid period It is

622. 00 MINING CO auto recemble, ansur deprosophet

1950.62

Chief, Self-Lightdaffng Engineer

Manager		Teanian Engineer	Has Jaido	
	ByBy		(A.	
NING CO.	LONG CONTACT MIN	noitsroqroD 9	eonstruction Financ	Ee.
	Very truly yours,	N	ED:	APPROVI
	20 may /		. 10	Accour
ed) payrolls desit it is beriod. It is bring bur payrolls and	roll checks to be issued in amounts ularly appear on verified (certification of covering said checks are tequisitioned between said amount requisitioned cover aforesaid period, shall remand	will more partic at the time payre t any difference	vees, respectively, as tood and agreed tha al amount of payroll	livered unders the tot
ot4e1	boired period all	ро солек раук	exceed \$	or ton
mus of the sum	he payment out of the "RFC Acco	y also made for th	Requisition is hereb	
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	5.48		4,99	36.0	-	THE RESERVE OF THE PERSON NAMED IN		22,5	12.48			
1940	25137	0.095	2.41		268.9		1, 34	6.0	1.52	1.2	0.304	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25.72	0.055	1,41	16.4	421.8	2.48	0.64	16.6	4.27	2.2	0.566	
1941	36.7.	0.065	2.39	16.7	6/2.9	2. 9	4.06	13,3	4.88	3,0	01.110	
1941	32.7.	0.064		15.59	509.8	2.6	0.85	13.2	4.32	2,5	0.82	
1942	7, 28	0.07	0.57	21,3	155.1	5.7	0.42	7.3	6.53	2.0	0.15	
1943	16.39	50.0	0.33	8.8	144.	0.97	0.16	21.0	3.44	117	0.28	
1943	17.04	0.33	5.62	9.0	153.4	3,20	0,55		•	1.10	0, 19	
1943	45.0	0.005	0.23	17.6	792.1	2.36	1.06	23.0	10.35	2.60	1.17	
1928 - 1943	Total 261.68 tons	0. 076	19.98	19.31	5055.	4,2	10.99	17.08	41, 79	2.22	4.58	Average
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261.68

261,68 55,48 206,20

	Sampling Record No 4 One Body							
	Samples Jaken by Wm. B marthad for RFC.							
	No	width	Oz Gold	02 Silver	% Copper	% head	% 2 inc	
	135	24! 2	0.07	2.6	1.65	Trace	1,21	
	136	24 2		5.3 10.6	1.60 3.20	0.21	1.15 2.30	,
F. 9 41. P.				9.4 23.5	2,52 6.30	0.24	1.15 2.30	
		24 2		3.2 6.7	1.40	0.21	2.02 7.07	
2 Av	erape	26" 85	0.12 1:03	5,4 45.7	1.84	0.17	1.41 12.0	1
41	Sangles Jahan by H.J. B. rumswicker for Long Contact mining Co							
3	No		02 Gold	oz Silver	% Copper	To Lead	% 2ime	
3 48	B	36 " 3	0.15 45	13.5 405	4.1 12.3	Tr. O	5.7 181	
224	B		0.10	15.0 30.0	4,3 8,6	8.2 16.4	4.8 9.6	
Aris	B		0.08	8.7	3.41	0.10	1.36.2.72	
28.5	B.		0.07 14	2:5 5.0	2.50 5.0	0.05	1.00 2.02	***************************************
9/2030	B	36"	0.15 45	20.0	5.6 16.8	7,0 21,0	2.4 7.2	
A	verage	29" 12	0.12 1.40	12.7	4.13	3.14 37.70	3.30 39.6	v
Average Sample		27"20.5	0:12	9.69	3.18	1.90	2:52	-
	Smelter Settlement for above Ore:-							
	Smelter Payment on metals ( new Schidnele)							
	Sold 0.12 oy @ \$32,31825 3.88							
	Silver 9.69 og -0.5=9.19@ 0.69125 6.35							
	Lend 1.90% - 'No parguent 2 0.36 x2000 - 12 lb a \$0.049							
	Copper 3.18 - 0,5 = 2.68 = 536 lb @ 40.0555 2.97							
	Total metal smelter payment. # 13,20							
	Smelter Deductions							
	Base charge 3,50							
	Bullion Greight Lat 0.03							
	chrolile 0.20							
	Bullon 31.81% -2.0 - 29.01% MAX 2150							
	Lotel Smelter deductions " 6.83							

net melter Payment marketing Changes 2.06 PR Strength + Jax 2,83 Hawling + tay 50) 7,50 Sunteling 0.05 Mangene. 0.15 Royalty 10% 2753 Total markety shapes net Smelter paryment. Print Paymet

Copper 63.6 lb @ 85 % x. 80.05 \_\_ 2.70

Total value of one per ton Qt min 1 3.85 6.37 5,09

dufting cost on 546 xint was \$15:57 400' to justime out other win Matine of Epperalitinis. or should per 1/2 expenses 600 200' duft on vein \$ 17/ for \$4000.00 2 slights 2 mo. 1700.00 300,00 Rent on comp 6 mo. @ 50/no 1500 1 used 5 49 IR juckhamer + fottings 300 200.00 1 stoper used automatic 225,00 250.00 Stul + bits 300.00 Recondition comp. Chutes, timber, upan mut pipe 1400,00 300.00 chammer dyout \$ 7675.00 Incidetal efferme + mtaut 2325,00 \$ 10,000.00 Hanling to Pategia \$1:75 3nt SP. Cl Paro. 3.50 Mung cost ( ton / style ( showing) \$ 3.00 Sucting change 7,50 \$ 15.75 total cost estimated less 15 Spent \$38,000 on propy 10% roy -12/tan 15% 11 412-25 20% 11 +25 metudes westernt in 1 Since Ple 1940

Feb 10,1943 B+R mine Sample NOIA 1 in back of Mooners west endline in surface works Sample No 2 A 1 in floor of afore shaft but in 11 vein in footwall Souple No 3A 18 in peller of No 3 Shest 60' down on preparty Sayle No 4A 1' In adul tumel 50' exect of shaft. Sumple No 5 A- 20" face of Edift from X ant at property line vein frozen in walls lit vein making mater. Massie Darple No 6. A 10" for land of druft 81 fack for Saple No 5 A

avi u Sayle No 7A - 12" 20' up in rise 25,000 too ondurps 30' toch fine face estended @ #6/ton X cost Sulfide. B+P. agree to finish fond to pay \$100/mo guaranteed royalty for life of loan home 3 men working will plan to sum 2 shifts unto total of 5 men; -2 mmers - have 1 2 sunface - home 2 him 3 men only have congressor. 165 cursto machie gas engus but fouder magazine Set my egunp at portal 40 headhame 3 houses Mill Bulding machine shop 9×14 Jam Cushakke allo Chelmers lathe 14 x24 rolls, dull press 200 ton mood on bin power hackson convey bett, elevator, feeder 2 Southeaster 24" figs 2 Wilfley tables power grinder welding outlit Blacksmit author gas eignes 20,000 gal mod tank power saw tooks complete

BEN P. JACOBS E. A. JACOBS. SR. JACOBS ASSAY OFFICE P. O. BOX 1889 NO. 30 SO. MAIN ST. PHONE 130R DUPLICATE REGISTERED ASSAYERS TUCSON, ARIZONA, Feb-17-1943 Certificate No. 41539 Sample Submitted by Mr. Reconstruction Finance Corp. Phoenix, Ariz. Zine COPPER LEAD GOLD GOLD SILVER SERIAL SAMPLE MARKED PER CENT OZS- PER TON VALUE PER TON OZS. PER TON PER CENT PER CENT ORE WET ASSAY ORE WET ASSAY 210 9110 13.4 26.7 0.09 104228 0.4 4.60 0. 2 0.19 229 2 2 9-70 33-4 0-1 0.13 230 3. 0 11.45 13.2 0\_ 03 231 4.2 0. 51 14.2 0. 06 6-6 232 17.1 512 7.4 0.40 0, 04 233 29.2 16.6 2.8 5.66 0. 06 7-A 234

Wm B Maitland- Supervising

Gold Figured \$ .... per oz. Troy

48 01

Very Respectfully

Engineer

Charges \$ .31.50

B & D

No.

CHAS. A. DIEHL

Phoenix, Arizona, Nov.12,1943.

## ARIZONA ASSAY

Phone 3-4001

This Certifies That samples submitted for assay by

815 North First Street Mr. Wm. B. Maitland.

DFFICE

P. O. Box 1148 contain as follows per ton of 2000 lbs. Avoir.

No. MARKS Width	Ounces-	-	VALUI	E (0z.)	-	DLD	VALUE (0z.)	Of Gold and Silve	MOPPE -	PERC	ENTAGE	REMARKS
	Ounces	Tentins			Uunces	Hundths		Of Gold and Shive		LABAD	ZINC	
76 27"	•	6				.03	\$1.05		.95	1	1.05	
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Charges \$\_\_\_\_

EXX

Assayer ARIZONA ASSAY OFFICE

B+R

			1		/ \		1 1	.01		1	,
No	Wadth	Gold		Silver		Copper		Lend %		Zine	
14	1'	09	09	26.7	267	9,10	9,10	13,4	13,4	2.0	2.0
2A	1	19	19	3,4	3,4	4.60	4,60	0.2	0.2	0.4	0.4
34	1/2	13	20	33,4	50.1	9.70	14,55	0.1	0.2	2,2	3,3
4A	1	83	03	7.7	7.7	11.45	1145	13.2	13,2		3,0
5A	134	06	1.1	6.6	11.6	0.51	. 87	14.2	24.9	4,2	7.4
6 A	1	04	04	7.4	7.4	0.40	0,40	17.1	17.1	5.2	5,2
7A	1	06	06	29.2	29.2	5.66	5,66	16.6	16.6	2.8	2.8
. 7	8.25=	69)	72/825	(16.5)	136.1	(5,43)	46.65	(10.4)	85.60	2.9	24.1
	(1.2)		(0)		180		8.00				
				200	× 300	x1	6000				
				1	10						

WB Maitland Ill be in town Wed A.M between 9 × 10 and show you the way to the alto East and for the BYR mines me Respectfully

## TERMS: FOLLOWING H 0 SUBLECT

that is, telegraphed back to the originating office for comparison. For this, one-half the san unrepeated message and paid for as such, in consideration whereof it is agreed between or for non-delivery, of any message received for transmission at the unrepeated-message every as for non-delivery, of any message received for transmission at the repeated-tel. As a sing from unavoidable interruption in the working of its innes;

whether caused by

In the transmission or delivery, or for the non-delivery, of any message, whether caused by sum of the throadend collars, at which amount the sentier of each message represents that the the designed is fordered for transmission, and unless the repeated-message twice is paid or which me by almotion stall exceed for transmission, and unless the repeated-message twice is paid or which with valuation stall exceed for transmission, and the research to receipt the destination. The filed tarilis of the Company, the amount paid for the transmission of a domestic telegram, towns of 5,000 or more inhabitants where the Company has an office which, as shown by the two miss of any open man or pranto for eot the Company, within one mile of the telegraph office. Beyond the limits show specified the Company he sender, with the understanding that the sender authorizes the collection of any additional the sufficesset.

message except an intrastate message in Texas where the claim is not presented in writing and in the case of an intrastate message in Texas the Company will not be liable for damages and in the cause of an intrastate message in Texas the Company will not be liable for damages of 26 of the Communications Act of 1934. The same of the communications Act of 1934 age or messages the prompty and correct transmission and delivery thereof shall be presumed, age or messages the prompty and correct transmission and delivery thereof shall be presumed.

re accepted at one of its transmitting offices; and if a message is sent to such office by one of

enumerated below, shall apply to messages in each of such respective classes in addition

Code messages, consisting of 5-letter groups only, The standard service, at full rates. ORDINARIES

# DEFERREDS

subject to being deferred in favor of full-rate messages. Plain-language messages,

# NIGHT LETTERS

# URGENTS

Overnight plain-language messages

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Mother's Day Thanksgiving CONGRATULATIONS ON Valentine's Day Mot Jewish New Year Christmas

Father's Day Easter

ries Weddings Commencement Birth of a Child Anniversaries Birthdays

Bon Voyage telegrams Kiddiegrams (No 35¢ rate) MISCELLANEOUS

"Pep" telegrams

INFORMATION FULL FOR AGENCY OR

SITE OF PROPOSED DEVELOPMENT Vertical Section Thru East End of Applicant's Property
(Alto East Claim)
Alto Mine-Fast End Alto Mine-West End Boundary Line Inclined Shaft No. Shaft old Stopes West drift 125ft/level-Fastern Boundary Alto East Claim Proposed Raise 560 280-300 230 Approx. Completed Portion of Raise (73ft.) Drift on Wein } 14' = 1% brade. Portal of 1200ft. Cross-cut Tunnel -200ALTO MINE (RFC)

SANTA CRUZ COUNTY TYNDALL DIST.

See: ALTO GROUP (South Part) (file)
ALTO GROUP (North Part) (file)

Olsouth St. in RECONSTRUCTION FINANCE CORPORATION MINING DIVISION REPORT OF SUPERVISING ENGINEER TO ACCOMPANY APPLICATION FOR AN AUDITIONAL LOAN Mame: Long Contact Mining Company Docket No. ND-5891 Date of Report: November 11, 1944

On Pebruary 2, 1944 a loan of \$15,000 was granted the Long Contact Mining Company to drive a 310 foot raise and develop ore containing gold, silver, copper, lead and sinc.

A three-compartment raise was completed to a height of 288 feet and two inclined raises were driven from the top of this main raise. In the driving of this raise, four separate small ore shoots were cut, but before these ore bodies could be stoped the main raise had to be continued towards the surface to connect with various old workings found above. The original loan I believe would have been sufficient to have driven the main raise another 60 feet, which would have made the necessary connection with some of the old workings above. However, since these old works are full of water and probably partly caved, considerable extra work would have been necessary before a second exit actually was completed. Due to the fact that sufficient loan funds were not available to rehabilitate the old workings and because ore was encountered in the last 40 feet of the raise, it was deemed advisable to drive untimbered finger raises off the main raise in order to block out enough ore to justify an additional expenditure of money. Also, these raises are, in effect, part of the second exit program and are much cheaper and quicker to drive than the main raise.

The applicant has shipped one car of ore so far in the driving of this raise. This ore came from the No. 2 and No. 3 ore bodies. The average of the applicant's place samples while raising through these ore bodies was 0.05 oz of gold, 7.0 oz silver, 1.25% copper, 12.7% lead and 1.7% zinc. The 52.5145 dry short tons of ore shipped ran 0.045 oz gold, 9.4 oz silver, 1.42% copper, 10.5% lead, and 1.9% zinc, and netted before mining cost \$9.59 per ton, including "A" premiums only. This ore was produced only from raising and was not selected ore, but the mixed ore and waste from the raise was run thru a small concentrating plant where the fines are jigged and the coarse ore picked out on a sorting belt. Applicant intends to run all ore through this plant so it is expected that the ore to be shipped in the future will assay higher than the average of the place samples as was the case in the past.

Each ore pass will hold about 300 tons of broken rock or a total of 600 tons for both sides. Including the main raise from 250 feet to 288 feet which is in ore, the 75 foot east finger raise, and the 25 foot west finger raise, I estimate that the two ore passes contain about 600 tons of broken ore. At the time of my last visit to the mine, the ore had started to appear at the mouth of the last chute. As has been pointed out in previous reports, it is impossible to draw all the ore from the main raise unless the project is to be abandoned. Therefore there will always be a backlog of about 600 tons of broken ore in storage.

Name: 'Long Contact Mining Company Docket No. ND-5891 Date of Report: November 11, 1914

The applicant company has now exhausted all of the original loan but in order to keep the mine open, the two companies interested, the Long Contact Mining Company and the B. and R. Mines, have raised about \$1,500 which will maintain normal operations until the first of December. They hope that by that time either the new loan of \$5,000 that they have now requested will be available or it will have been denied and the broken ore can then be shipped and the project abandoned. Due to the lack of natural ventilation in the raise if work would cease during this waiting period the cost of rehabilitation, due to timber decay and packing of the ore in the chutes, would be excessive.

Attached to this report is the latest assay map and copies of the latest samples. Following is a summary of the ore available:

## SAMPLING RECORD

Samples taken by Wm. B. Maitland for the R.F.C.

	No	Width	oz Gold	oz Silver	% Copper	% Lead	% Zinc
	138 139 140 141 143 145 146	30" 30" 30" 21;" 30" 36" 21;" 21;"	0.04 0.06 0.20 0.18 0.12 0.10 0.10 0.04 0.12	2.00 2.60 8.00 11.00 18.60 6.70 4.40 3.60 8.80	1.30 1.20 2.85 4.35 7.15 1.85 1.55 1.65 2.75	7race " 3.94 2.86 3.40 3.06 3.47 1.70	None "" " " 0.30 None 0.80 0.30
Average:	9	29" -	0.11	7.35	2.73	1.98	0.15

Samples taken by H. J. Brunswicker for Long Contact Mining Company

	No	Width	oz Gold	oz Silver	% Copper	% Lead	% Zinc
	B B B B	36" 21;" 21;" 36" 36"	0.15 0.10 0.08 0.07 0.15 0.20	13.5 15.0 8.7 2.5 20.0 31.5	4.1 4.3 3.41 2.50 5.6 9.64	Trace 8.2 0.10 0.05 7.0 11.5	5.7 4.8 1.36 1.00 2.4 None
Average:	6	30"	0.13	16.5	5.23	4.8	2.64

Name: Long Contact Mining Company
Docket No. ND-5891
Date of Report: November 11, 1944

## SCHEDULES FOR ORE MARKETING

Metal Payments		ASCR Lead smelter ElPaso, Texas	AS&R Trench Mill Patagonia, Ariz	Approximately Eagle Picher Mill - Sahuarito, Ariz.
Gold: O.ll os	0.11 x \$32.3180 \$3.56	25 0.11x832.318 \$3.56	025 0.11x025.00 \$2.75	0.11x325.00 \$2.75
Silver: 7.35 oz	(7.35-0.5) x \$0.69125 \$4.74	(7.35-0.5) x \$0.69125 \$4.74	7.35 x .71 x \$0.7111 \$3.71	7.35 x .90 x 0.69125 84.57
Copper: 2.73% = 5h.6 lbs	(54.6-8) = 46.6 x.95 x \$0.0905	(54.6 - 10) x \$0.0555	54.6 x \$0.035	(54.6 6) .95 x 0.0559
	\$4.01	\$2.48	\$1.91	\$2.87
Lead: 1.98% = 39.6 lbs	No payment	No payment	39.6 x \$0.03 \$1.19	(39.66) x .90 x 0.0494 \$1.73
Zine: 0.15% = 1.5 lbs	No payment	No payment	No payment	No payment
Total Metal Pays	ment:\$12.31	\$10.78	\$9.56	\$11.92
Smelter or Mill Deductions:				
Base Charge Bullion Freight Insoluble	\$3.50 Tax .03	\$3.50 .03 .20	\$3.00	\$6.08
Sulfur Bismuth	2.50 .60	2.50		0.01
Total Deductions	\$6.63	\$6.83	\$3.00	\$6.13
Net Payment before Transportation	95.68	\$3.95	\$6.56	\$5.79
Marketing Charge	181			
RR Freight & Tax Hauling & Tax Switching	2.83	\$2.06 2.83 0.05	4-37	2.83
Umpire Royalty 10%	0.15	0.15	0.15	0.20
Total Marketing Charges	85.19	\$5.09	\$4.72	\$3.03
		_3_		

Name: Long Contact Mining Company
Docket No. ND-5891
Date of Report: November 11, 1944

	SCHEDULES FO	OR ORE MARKETING	(Cont)	Ammandanta		
Net Smelter or Mill Payment	AS&R Copper Smelter Hayden, Ariz	ASAR Lead smelter ElPaso, Texas	AS&R Trench Will Patagonia, Ariz	Approximate Eagle-Picher Mill - Sahuarito, Ariz		
Net Smelter or Mill Payment	0.49	-1.1h	1.84	2.76		
Promium Payments: Copper: 54.6 lbs	54.6 x .97 x \$0.05 2.65	54.6 x .85 x \$0.05 2.32	54.6 x .87 x \$0.05 2.38	51:.6 x .87 x \$0.05 2.38		
Lead: 39.6 lbs	No payment	No payment	39.6 x .86 x \$0.0275 0.94	39.6 x .86 x \$0.0275 0.94		
Total Premium Payment	\$2.65	\$2.32	\$3.32	\$3.32		
Net Payment for or before Mining Cos		\$1.18	\$5.16	\$6.08		

From the above analysis it would appear advisable to either ship to the Trench Mill or the magle Picher Mill. However, it must be remembered that the Eagle Picher schedule is just an approximation. Due to the fact that the ore is sorted at the mine, I believe the ore now exposed in the present workings will ship better than it samples. My sampling was taken at regular intervals while 'Brunswicker's samples were taken of the higher grade portions of the vein. While the average of my samples does not indicate very profitable ore, I believe with selective mining a shipping grade of about \$9.00 per ton net before mining cost can be maintained.

In addition to the 600 tons of broken ore in the chutes against which there will be no mining cost, there is, according to my calculations, about 800 tons of partially blocked out ore at the top of the raise.

							rting cost:	\$2,496.00
000	TONS	M Som	per cor	, Tens	⊕Z•W	mining and	\$1.00 sorting cost:	\$1,728.00
Tota	l net	value	of ore r	ow de	velope	d:		\$4,224.00

I believe that this net profit can be considered as a minimum and, of course, does not include any probable ore between the ends of the finger raises and the old workings above.

Name: 'Long Contact Mining Company Docket No. ND-5891 Date of Report: November 11, 1944

With four men now employed, they are producing 15 tons of ore per day from driving the raises.

Due to the fact that most of the development work has been done, the mine is now completely equipped, and all of the development faces of the mine are in ore, I believe that a further loan of \$5,000 is justified for this project.

WM. B. MAITLAND Supervising Engineer

WBM: sbm

ARIZONA TESTING LABORATORIES
ANALYTICAL AND CONSULTING CHEMISTS
ASSAYERS, MINING ENGINEERS 823 EAST VAN BUREN STREET

**ASSAY CERTIFICATE** 

PHOENIX, ARIZONA

194

ir. S. S. Eltland,

M Supervising mainter, kFC., 325 Heard Bullians,

WE HAVE ASSAYED THE SAMPLES RECEIVED FROM YOU AND FIND THE RESULTS AS FOLLOWS:

GOLD FIGURED AT \$ 0.70 PER OUNCE.

SILVER FIGURED AT \$ 0.70 PER OUNCE.

LAB. FORM 2

LAB. NO.	SAMPLE	GOLD	SIL	VER		PERCE	NTAGES	
		Oz. PER TON VAL	UE Oz. PER TON	VALUE	COPPER	LEAD	2.D.C	
55007	#158 30°	0.04 51.	2.00	1.40	1.309	Trace	Hemo	
55608	#159 30*	0.06 2.	10 2.60	1.82	1.20%	Trace	l'oce	
53809	#140 30"	0.20 7.0	00 8.00	5.60	2.85	Trace	None	
53810	141 24"	0.18 6.3	50 11.00	7.70	4.35°	3,94%	None	
53311	#142 50 <sup>th</sup>	0.12 4.	20 18.60	13.02	7.15	2.86%	None	
53812	143 30	0.10 3.	50 6.70	4.69	1.85%	3.40%	0.30%	
53813	<b>*144 26*</b>	0.10 3.	50 4.40	3.08	1.55%	3.06%	Bono	
53814	# <b>14</b> 5 24 %	0.04 1.	3.60	2.52	1.65%	3.47	0.80%	
53815	300	0.12 4.	30 (3.80	3.16	2.75	1.70%	0.305	
		: 1	(1) 10 (A) (A)			<u> </u>		
	Long Contac	t Mining Company						

RESPECTFULLY SUBMITTED.

ARIZONA TESTING LABORATORIES

ASSAYER

36.60 CHARGES \$

No. 429 Ma

CHAS. A. DIEHL

ASSAY

Phoenix, Arizona,

Oct.25, 1944. 

Phone 3-4001

815 North First Street

P. O. B.

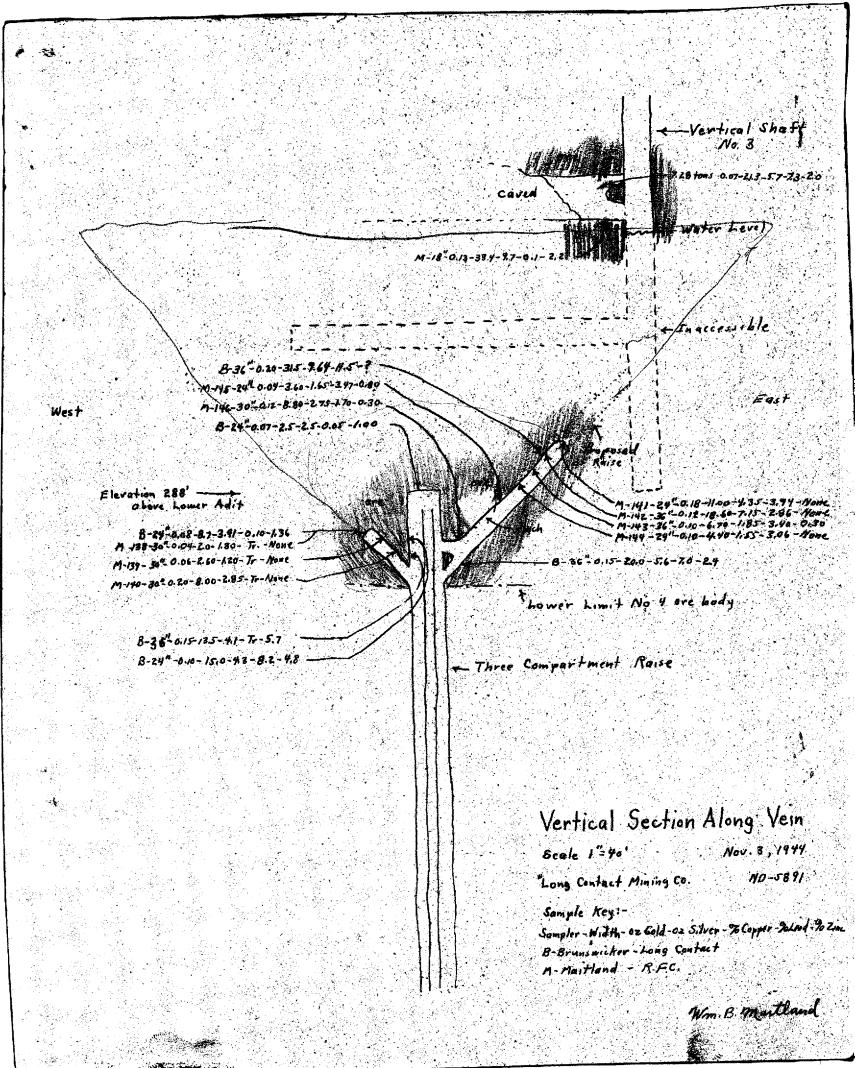
Mr.Wm.B.Maitland.

ARIZONA

contain as follows per ton of 2 This Certifies That samples submitted for assay by Long Contact Mining Couver \$35.00 Of Gold and Silve OFFR PERCENTAGE LEAD ZINC Ounces Hundths W1dth Ounces | Tenths 288 elevation. 2 ft. Main raise/ .07 \$2.45 2.50 .05 1.00 raise-225 in. .03 8.7 \$2.30 2 ft.West incline/ .10 1.36 3.41

Charges \$\_9.00

Assayer ARIZONA ASSAY OFFICE



Report to accompany application for an aldeland to " Long Cartant Ming Co. mr 19,1944 nas granted the Long Contact ming Contact of to drive a 310 Rouse and developed a mine contaming gold, silver, copper, lend, and your. completed to a height of 288 feet and two mulined rance were down from the tope of This main saise. In the diving of this raise four separate small one shoots were cost, but before there are bodies could be stoped the main raise had to be continued bounds the surface to connect mitt various old morkings found alone; The original loan I believe who subuld have been sufficient to have diver The main raise another 60 feet which would have made the necessary connection mitt some of the old morkings above. However sme There old morks are full of mater and probably partly caned considerable exten moste would have been newson tefore a second ext actually was completed. Due too the fact that sufferent love fulls nere not available to rehabilitate the old morkings and because one was encountered in the last fity feet of the same it was

intrubud deemed advisable to dine finger raises If the man rance intorder to block out Enough one to justify in additional equilities of money, also there rances are in deflect put of the second get program and are much cheque and quickes to done than to man spish. The applicant his shipped one car of ore so for in the drawing of the sauce, This ore came from the 16 2 and 3 ore bodies. The overage of the applicants place? samples while spring them there are boddles was 0.05 og of gold, 7:0 og selver, 1,25% copper, 12.7 % lend and 1,7 % your, The 52,5145 day shot tons of one shyped ran 0.045 og gold, give and setured netted before mining cost \$ 9.39 per to ancholing "A" premum only, This re was produced only from ransing and was not selected one but the myed one and muste from the same was som them a soull concertrating plant makers the fines ni jigged and the course one puched To run all one others this plant so it is expected that the one shaped will assure Ingher Than the energy of The place samples as was the case my past. Coch re pass wall hold about 300 tras of holen web or a total of 600 tons for both sides. Ihrlinding the man rouse from

250 feet to 288 feet which is in one, altered the 75 foot east finger rouse; and the 25 foot west finger raise el estimate that the two one passes contain about 600 tons of Suhen ore, at the time of my last must to the more the one had started to appear at the mouth of the east chute; obviously it sends, as his been pointed out in previous reports it is myssible to drange the one from the marin raise unless the project is to be abandoned, Therefore there mill always be a facklog of about 600 tons of broken one in storage. The applicant company has now exhauted all of the original loan but moder to keep the mue open the two corponies interested the Long Contest mung Co and the BAR muses, have raised about \$ woo which will maintain stop opormal operations mutil the frost of Desember. They shope that by that time enther the new loan of \$5000 that they have now requested mill be available or it mill be denied and the harhen one can then be shipped and the project abandoned. Due to the lack of natural ventilation the ranse if work would close starring this writing period the cost of rehabilitation, due to timber decay and parking of the one in the chutes, mould be excessive, attached to this report is the latest assury is a summany of the one available Sampling Record

	Same	lo take	m ly n	Im B m gi	that &	P.FC.	
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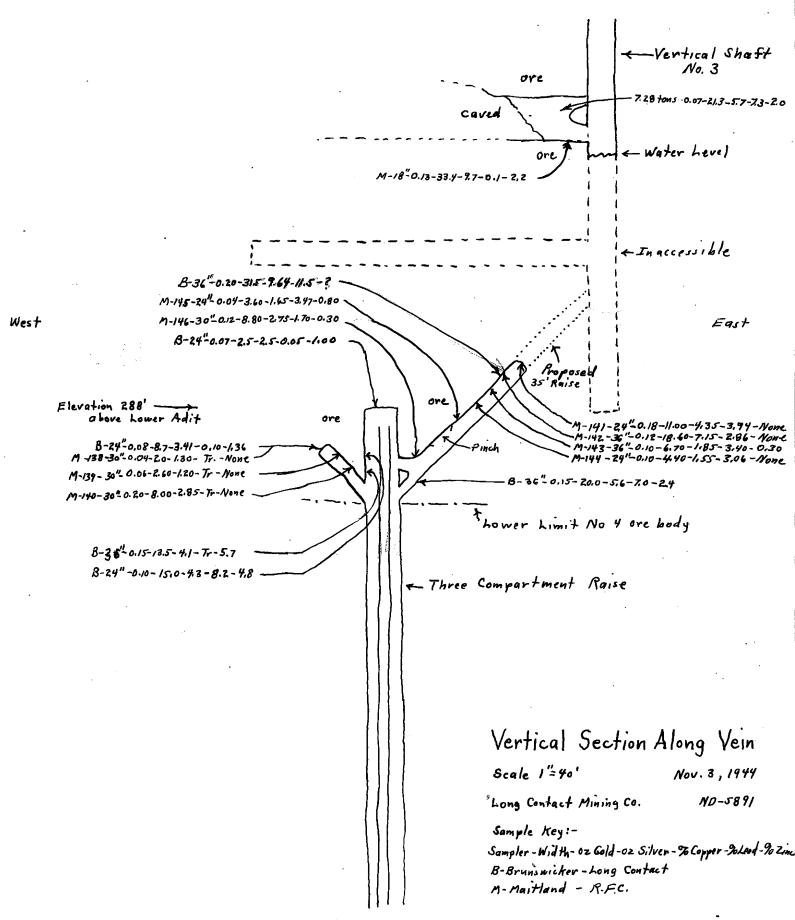
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	Copper 2.732 =546 165		10703	4.6-10) x 6,0cm	54.0	x 40.035	54.66),95 xa, 05.59
		#	4.01	# 2,48	+	1.91	2.87
	Lead 1.98% = 39.6 165	No	payment	No payment	3	9.6 x 8.03	69.66)x.90 x0.04 0.0494 4
		+			+	1.19	1.13
20	Zinc 0.15% = 1.5/bs	No	Payment	No paymen	* \	No payment	No Payment
ī	T / / Da / / P		10.21	10-0		9.56	11.00
	Total Metal Payment		12.31	10.78		1.36	11.92
	Smelter or Mill Deduction		3,50	3,50		\$\frac{4}{3},60	6.08
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	SulSur		2,50	2.50		. —	0.01
N.	Bismuth	·	6.60	0.60			0.03
	Total Deductions		6.63	6.83	}	3.00	6.13
	Net payment Besore transpor	Halas	5,68	3,9	5	6.56	5.79
	Marketing Charges		•				
* 5.4	R.R. Freight & Tax		2,16	2.06	<u> </u>	_	-
/ 4 .	Hanling + Tax		2.83	2,83	?	4.37	2.83
-	Sw, tching			0.05			
	Umpire		0,15	0.15		0.15	0.10
	Royalty 10%		0.5			0.20	0.20
	Total Marketing Charges		5:19	5.09	MALE STATE OF THE PARTY OF THE	4.72	3.03
	Net smelter or Mill Paym	unt	0.49	- 1.14		1.84	2.76
	Premium Pajments	;	54.6 × .97 x 6	of 54.6 X.85X	o.ar	57.6x.87x 0.0	54,6X.87X0.05
	Copper 54,616s		2.65	2.32		2.38	2.38

• 8 39.6 X . 86 X0.02 Lead 39,6165 No payment No payment 0,94 0,94 2.32 Total Premium Payment 2,45 3,32 Net payment for one before mining court 3.14 5,16 6:08 1,18 From the above analysis it would appear admedile to este shy to the strench mill on the Cagle Petcher mill. However it must be remembered that the Eagle Potates schedule fact that the one is norted at the name present makings mel ship fetter than it samples, my sampling was taken at regular intervals while ald to white Briminsheis samples more taken of the higher grade portions of the wein. While the average of my samples doest not indicate profitable one of believe into selections mining a shipping grade of about 49 per for met before ming cost can be maintained. cost com be maintained. In addition to the 600 true of broken ore in the chutes against while there mill be no ming 4.16 cost there is anothing to my calculations about 2496 Eo a too of putilly blocked out ore at the 216 top of the rand. 1728 6 00 too @ \$ 5.16/ton less \$ 1.00/ton entry cost 2496.00 8 to the @ 45.16/ to less & ming + 4/ hosting ant 1728.00 Total net unline of one now developed \$4224.00

I believe that this net profit can be considered as a minimum and of course does not melinde any probable one between working alone With four men now employed they are producing 15 tons per day of from derrong the raises · Due to the fact that most of the development not has been done, the mine is now completely equipped, and all of the development faces of the more are in one of believe that a further loan of \$5000 is gustified for the project Wom B mittingl Sup On



Wm. B. martland

325 Heard Building Phoenix, Arizona September 21, 1944

Long Contact Mining Co. Box 892 Nogales, Arizona Re: Long Contact Mining Co Docket No. ND-5891

Attention: Mr. H. J. Brunswicker

Dear Butch:

I am enclosing three maps I have made at various times of your project and I hope they agree with your ideas of the mine. I thought perhaps they might be of interest to you. I am also returning your raise cost sheet, with a few corrections. Wish to thank you for this information as it has been very useful. I trust by this time that you have started stoping and that the ore is holding out very well.

We have just received your smelter return on the first car of ore shipped under the loan, and I calculate that based on the A premiums for copper and lead, you will receive \$338.02 as a premium and \$139.36 from the smelter, or a total of \$577.38 for the car of ore which is considerably under what we estimated. It is my opinion that the smelter deductions and penalties on this car of ore are out of all proportion, and I feel confident that if the Eagle Picher Company will accept your ore they can make you a better deal than the El Paso Smelter. If you will stop to analyze the smelter sheet, I believe you will find the following facts to be true:-

The value per ton of the ore figured at market price without deductions or penalties would amount to \$24.19. Of this amount the smelter has charged you \$7.08 or 29.3% or the ore value. In addition, they have deducted \$9.25, or 38.2% of the ore value. In other words, of the \$24.19 the smelter has retained, in one way or another, \$16.33 or 67.5% of the value of the ore. Your freight, hauling and royalty amounted to \$5.21 or 21.5%, while you receive only \$2.65 or 11% of the market value of the ore. In my opinion, the smelter is making all the best of it in this case and you are taking a beating. It seems to me that their charges for sulphur penalty is too high. If I were in your shoes I would discuss this with Brent Ricard, and if this is the best he can do I certainly would try and get another marketing source for my ore, because as it is now you are apparently working for the smelter.

I appreciate that your ore had a high pyrite content and I think it is possible that Eagle Picher Company in their custom mill could depress this pyrite and I know that in other cases their maximum milling charge is \$5 per ton and their mill recovery is based upon the average mill recovery for the month. If you will calculate

Long Contact Mining Co. September 21, 1944

the percentage deductions for the various metals, I think you will find that in the case of lead you are getting about 60% of the market value; in the copper, you are getting about 15% although in the gold and silver you are getting fairly high recovery payment. My suggestion to you would be to take a good long sample of the ore, together with this smelter settlement sheet, over to Mr. Crabtree at the Eagle Picher Company and frankly discuss the matter with him.

In any event, Butch, keep up the good work! We are depending upon you to make this mine pay out. And if there is anything that we can do for you, let us know.

Sincerely yours,

Wm. B. Maitland

Encs:

3 maps

Supervising Engineer

WBM-bkb

raise cost sheet

325 Heard Building Phoenix, Arizona September 21, 1944

TULIN - ASS'T CHIEF - MINING SECTION R.F.C - WASHINGTON In Re: Long'Contact Mining Co. - Docket No. 5891

Enclosed please find two copies of my Frogress Report on the above captioned docket, together with two copies of map.

Wa. B. Maitland Supervising Engineer

Enc - Progress Report in duplicate 2c - Wap

WBM-bkb

RECONSTRUCTION FINANCE CORPORATION

MINING SECTION

PROGRESS REPORT OF SUPERVISING ENGINEER

Long Contact Mining Co. Docket No. ND-5891 Date of Report: September 21, 1944

On September 13, 1944, I inspected this project. Applicant Company is driving a three compartment raise which had reached a height of 283 feet above the lower adit. The accompanying map shows the location of this raise and the assays taken. From the driving of this raise they obtained one car of ore which was shipped to the El Paso Smelter on August 28, 1944, but the returns from this shipment are not as yet available. I estimate that there is another car of ore (mixed with waste) still remaining in the raise.

As of September 11, 1944, this project had the following financial position:

	ds		
Accts. Receivable -	insurance deposit, gasol: refund, etc		
Estimated return of	lst car of ore		
	Total Credits		3172.62
Unpaid Bills estima	ted	\$ 436.00	
Payroll Sept 1-15,	1944	484.02	
	Total debits		920.02
	Cundit Dalaman		hoore

Mr. Brunswicker estimates that the above funds which are available will carry the present raising operations until October 15, 1944, which at the present rate of advance will not "hole thru" the raise as it has about 55 feet to go. Since this raise will connect with an inaccessible drift off an old shaft there will be a considerable additional expense to complete this second exit. Therefore in order to obtain sufficient working capital to continue the project, Mr. Brunswicker and I have concluded that stoping of ore should be started at once as shown on the accompanying map. Another factor that necessitates immediate stoping is the fact that 258 ft. of raise will contain about 290 tons of broken ore so with the two ore passes there would be 580 tons of broken ore held in the raises at all times as it would be dangerous to empty the raise unless the project is abandoned. Also at the rate of production of 25 tons per day it would take over 20 days before the newly broken ore would reach the bottom of the raise.

Mr. Brunswicker believes that if they are short of money due to the fact that the ore is tied up in the raise, he can obtain an advance either from the Long Contact Mining Co. or from the Smelter or from both sources.

In mining the ore now found in the top of the raise an open stulled stope method will be used and in order to comply with the State mining law requiring two exits the stope will be driven in the direction of the old shaft above. Incidentally there will be considerable danger and difficulty in connecting the stope with the old shaft as the shaft contains a large amount of acid copper water which if allowed to flood the raise will corrode and replace most of the nails, bolts, vent pipe, and cable now in the raise. Moreover, in the canyon below the mine there is a water storage dam used by the cattlemen. If this reservoir becomes full of acid copper

Long Contact Mining Co Docket No. ND-5891 Progress Report Sept. 21-1944

water a damage suit may be the result. In making the connection it is planned to drive long pilot holes ahead of the face in order to tap this water in the shaft and draw it out slowly.

I see no reason why this project should not produce a large tonnage of ore and pay off the loan because there are now three ore shoots exposed in the raise. Mr. Brunswicker intends to contract the stoping of the ore on the basis of so much per square foot of vein area. He is now negotiating this contract.

Attached to this report is the applicant's calculation of the cost per foot for driving the raise.

Wm. B. Maitland Supervising Engineer Long Contact Mining Co Docket No. ND-5891 Progress Report Sept. 21, 1944

DETAILED COST OF THREE COMPARTMENT 283' RAISE 5' x 14' outside, only center mannay timbered BASED ON 5 LINEAL FT. OF ADVANCE (1 set timber)

Timber Cost			
2 - 8 x 8 x 7 equals 75 bd. ft. 6 - 6 x 8 x 4' 4" " 104 6 - 2 x 6 x 4' 4" " 26 2 - 2 x 8 x 4 15 12 - 2 x 12 x 5 120 3 - 1 x 6 x 5 8 3 - 2 x 4 x 5 10 1 - 1 x 2 x 5 1 1 - 1 x 4 x 6 2 2 Hanging Rods 6' 8	\$65.22 62.10 62.55 62.55 62.50 60.00 64.35 63.50 67.05 0.96	equals 4.74 6.46 1.63 0.94 7.50 0.48 0.64 0.06 0.13	
361 bd. ft.	V.50	1.92	\$24.50
Explosives Cost 150 sticks powder 8 75 ¢ Caps and fuse	\$ 11.25 2.15		13.40
Fuel Cost			
Gasoline - 115 gals @ 1320			15.63
Trucking Cost Rent Gasoline	\$ 8.90 2.40		11.30
labor Cost			
Mining 2 men \$14.50/ft. Surface - 1 man \$6.68/ft. Supervision - 1 man \$10.22/ft.	\$ 72.50 33.40 51.10		157.00
Misc. Costs			207.00
Compensation Insurance Unemployment Insurance Social Security Bank interest on loan	\$ 12.65 5.65 1.80 7.90		28.20
Total cost for 5 feet		::::::	\$249.93 49.99

Progress Report Long Contest ming 6 Sept 21, 1944 project. On Sept 13, 1944 als magested this there comparedment rane which had reached a height of 283ft above the lower alit. The accompanying map shows the progress localin of this same and the assays taken From the driving of thes raise they obtained one car of ore which was shipped to the El Paro Smetter on any 28, 1944 but he relume from this shipment are not as not available. I estimate that there is another car of one (myed mitt musto) still remaining m The rane, the following financial position: Balance in loan fundo 1950.62 auto, Recevable - minimane dez, gosoline refund, ih 622.00 Rolmated return of lat con of ou 1000.00

Lotal Credito 43572.62 3512.62 Unpaid Bills istimeted 43600 Payroll Syt 1-13, 1944 484,02 Gredit balance 920.02

Mr Bunowsker estimates that the above funds and while are available will carry the present

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top of the ruse on open stulled stope method mill be used and moder to caryly exito the stope wall be down in the duestion of the old sheft above. Incidently The cornection there will be considerable danger and differently in connecting the stope with the old shaft as the shaft isontains of allowed to flood the raise milled corrode and regulace most of the news, botto, ment pipe, and calle now in the rance. In moreook in the carryon below the muce There is a water storage dam used by The cattlemen, If this deserrour becomes full of and copper mater a damage sunt may be the result. In making he connection it is planned to drive long proof holes whend of the face moder to top this water in the shift and draw it out slowly. I see no reason why this priject should not produce a large tomage of ore and pay off the loan geranse there are now three ore shoots apposed in the ranse. Mr Brumsmaker intends to contract the stoping of the ore on the basis of so much per square foot of vein onea. He is now negotiating this contract. attached to this report is the angelerants calculation of the cost per foot for driving the

Wm B marthyde Cy Ping

1+4 Detailed cost of Three Compartment, 283' Raine,
Based on 5 lineal ft of advance (I ret timber) Junker Cost 2-8x8x7 = 75 Adft @463,22 = 6 - 6x 8 x4'4" = 104 62.10 6,46 6 - 2x6 x4'4" 26 62.55 1.63 2 - 2x 8 x4 15 62,55 0.94 12-2×12 ×5- 120 62,50 7,00 3-1x6 x5 8 0.48 60.00 3 - 244 x5 0.64 64.35 1 - 1x2 x5 63,00 0.06 67.05 1 - 1x4x6 2 0.13 2 Hanging Rodo 6 @ 0.96 1.92 \$24.50 361 folft. Explosines Cost 150 streho punder a 72 4 11.25 Smel Cays + fine 1/2 2,15 13.40 Saroline 115 galo @ 13 & 4 Turking Cost Rent Basoline 8.90 2.40 Labor Cost 11.30 mmy 2 men 414.50/ft 72.50 Surface 1 man \$ 6.68/ft 33,40 Superison I nan 10.22/ft 51,10 mire Costs 157.00 Compensation chamana. 12.65 Social Security

Social Security

Sotial cost for 5 feet

Total cost for 5 feet 5.85 1.80 28.20 249.93V 7.90

One Value 924,19 100.0 % 16,33 Smelter returns 67.5% Fut + Hunling + Roy 5,21 21.5% Butch 2.65 11.0 % Smelter drages Smelter deducts 7.08 29.3% 38.2% 9.25 67.5% 16.33

1438.9 lb an. @ 4,25 4 611.15= 10,607.9 lb fd. @ 2,61 \$276.87 # 338.02 Smeller 139.36 \$577.38 \$11/ton

\$ 24,19 ou 13.13. Pb 58% -# 9.25 1. 23 An 92% -6.64 Ag 88%. 3.19 Cm 13% 7.08 # 16.67 smilder 24,19 7.52 Roll 0.34 Moustin 3.85 # 786 Biller 16:33 Sulin

325 Heard Building Phoenix, Arizona July 15, 1944

TULLY - Ass't Chief Mining Division - RFC - Washington, D. C.

Re: Long Contact Mining Company - Docket No. ND-5891

On July 12th I visited this project and discussed with Mr.

Mrunswicker the progress being made. The raise is now up
214 feet above the adit level and although he is only working on one shaft he is averaging about three feet a day.

The ore in the raise has averaged from 12 inches to over
36 inches in width and is now 18 inches wide on the face.

Mr. Brunswicker's sample of the 50 tons of ore from the
raise ran .05 in gold, 14 oz in Silver, 19% lead, 2% copper
and 2.5% zinc. Mr. Brunswicker expects to ship this ore
next week and believes that during the next 100 feet of
raising he will be able to ship another car. The high
grade portions of the vein consist of tetrahedrite, galena,
chalcopyrite, sphalerite in quartz and associated with pyrite.

In order to expedite the driving of this raise the applicant is blasting the whole raise face at one time and then runs all of the ore and mixed waste through a small sorting plant in which the fines are jigged. They have not attempted to do any stoping along the raise but he has kept an accurate record of where the best ore occurs.

I believe that this project will be completed with the loan funds available and that it should produce considerable tonnage of ore, especially near the top of the raise.

WDM/6

Wm. F. Maitland Supervising Engineer

## RECONSTRUCTION FINANCE CORPORATION

#### MINING DIVISION

#### PROGRESS REPORT OF SUPERVISING ENGINEER

Date of Inspection: May 23, 1944
Date of Report: May 27, 1944
Docket No. ND-5891
Long Contact Mining Company

On May 25, I visited the project being operated by the Long Contact Mining Company. They are driving a raise between the lower crosscut and the old workings near the outcrop of the vein. They are following the ore up with this raise; and of the original \$15,000 loan granted they had a balance, on May 15, of \$9,009.12.

They started actual raising operations on April 3rd, and in the 42 working days up to and including May 23rd, they have advanced this raise 66 feet - which is approximately 1-1/2 ft. per day. They have about 220 ft. yet togo. The ore at the top of this raise at the time of my visit was about two feet wide and has been widening out for the last 6 or 8 feet. At a point 70 to 80 feet above the adit level they ran into a lens of ore three feet wide that assayed .05 gold, 8.0 os. silver, .72 % copper, 29% lead and 3.1 % sinc.

Since the raise is much wider than the ore contained therein, they have constructed a small sorting plant from machinery and equipment already owned by either the B & R Mines or the Long Contact Mining Company. So for a labor investment of approximately \$400 they have obtained 25 tons of ore to date from the raise. The sorting plant consists of a grizzly, trommel, a jig and a picking belt. The oversize from the trommel goes to the picking belt, and the undersize goes to the jig. They submitted a sample of the ore from the picking belt which averaged 0.0 in gold; 42 cunces of silver; 0.55% copper; 12% lead; and 3.2% zinc. The jig concentrate ran .05 gold; 5 oz. silver; 64% copper; 18.5% lead; 2.1% zinc. The Superintendent of the project assured me that with the funds remaining they could complete the raise, and I suggested to him that since they are only mining on one shift that it would be advantageous to drive the raise ahead on two shifts, thus cutting down the overhead cost per foot. They are making a very good job of the raise and should be able to increase the footage as they are now in better ground than previously.

The face of the raise is now 129 ft. above the adit level and 66 ft. of this distance was driven prior to the granting of the loan.

The initial cost of this operation was fairly high due to the fact that it was necessary to retimber part of the original raise and buy a large amount of supplies which are now on hand. I have requested the Borrower's superintendent to supply me with the detailed cost on the raising operation as soon as they have completed two months of work in the raise.

325 Heard Bldg. Phoenix, Arizona April 13, 1944

TULLY - Asst Chief - Mining Division RFC - Washington Re: Long Contact Mining Company - Docket No. ND-5891

Enclosed please find my progress report, in duplicate, on the above captioned project.

W. B. MAITLAND Supervising Engineer

WBM:ep Enc. Progress in duplicate.

# RECONSTRUCTION FINANCE CORPORATION MINING DIVISION PROGRESS REPORT OF SUPERVISING ENGINEER

Long Contact Mining Co. Docket ND-5891 April 13, 1944

On March 29, 1944 I visited the above project in order to examine the progress being made. The applicant has cleaned out and partly retimbered the raise, installed a tugger hoist and timber slide, completed the installation of the vent pipe and was starting to drive the raise ahead under contract. All of the workings were in good shape and most of the supplies for the raise were on the ground.

Of the \$15,000 loan granted for the driving of the raise there remained a balance of \$11,906.38. The expenditures to date have been as follows:

Payroll Petty Cash Compensation Ins. Dep. Air Tugger hoist Powder, caps, fuse, steel Gasoline & drum deposit Timber (mine) Truck rental (1 Mo.) Withholding Tax Social Security Drill Steel	\$957.69 392.84 206.50 80.00 379.59 232.52 520.07 50.00 92.70 10.61 171.10
Total Spent to April 1	\$3093.62

Four men were being employed on the project and work is apparently progressing satisfactorily.

W. B. MAITLAND Supervising Engineer

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project and work is apparently progressing satisfe	uloily
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Stock hoce 325 Heard Building Phoenix, Arizona December 7. 1943 Re: Long Contact Mining Co. Docket No. ND-5891 TULLY, Asst. Chief Mining Division, RFC, Washington, D. C. Enclosed please find two copies of Supervising Engineer's Report, and one copy of original application with supporting data. Wm. B. Maitland Supervising Engineer 2 copies of Sup. Eng. Report 1 copy Original Application and Data WBM-b

325 Heard Building Phoenix, Arizona December 3, 1943 Loves Contal

Mr. P. S. Haury U. S. Bureau of Mines Box 4097, University Station Tucson, Arizona

Dear Mr. Haury:

Enclosed please find the two maps I promised you. Most of the data was compiled from old maps and reports, so I do not know how reliable the information is although I trust that it will give you a fairly accurate over-all picture of the mine.

Sincerely yours,

Wm. B. Maitland Supervising Engineer

Enc. 2 maps

WBM-b

REGONSTRUCTION FINANCE CORPORATION
MINING DIVISION
REPORT OF SUPERVISING ENGINEER

# 1. NAME AND ADDRESS OF APPLICANT

Long Contact Mining Company 1301 W. Jackson Blvd. Chicago, Illinois

#### Correspondent

'H. J. Brunswicker P. O. Box 892 Nogales, Arizona

#### 2. CHARACTER OF PROJECT

To finance the further development of a silver, copper, lead, zinc vein now exposed by a deep level adit and raise.

#### 3. LOCATION OF MINE

Alto Mine Sec.-11, 12, 13, 14 T-21-S, R-14-E G. & S. R. B. & M. Tyndall Mining District, Santa Cruz County, Arizona

Name and distance by road nearest railway station: Patagonia - a town on the Southern Pacific. Railroad is 18 miles southeast of the mine.

Condition and seasonal accessibility of road, mine to railway: Except for the last mile of road which is steep and rocky, the road from the mine to the railroad is a good graded dirt road that should be accessible at all times of the year. The elevation at the mine is about 5,000 feet so the summers are cool and there is no snow in the winter time.

#### 4. APPLICANT

The applicant company is composed of a group of Chicago business and professional men who are not experienced in mining. They informed me that they have spent about \$55,000 on this property and all past work was under the direction of Mr. E. J. Neuner, one of the partners in the company. Since Mr.Neuner was a poor superintendent, the actual work done on the mine represents a normal investment of about \$35,000.

Recently the applicant company (partnership) has hired Mr. E. J. Brunswicker, a competent and experienced mining operator. He is also in charge of the B. & R. Mines Inc. (B-ND-4801) and has proven himself to be trustworthy and efficient.

#### 5. LOAN REQUESTED

Application requests a loan of \$15,000 to complete the present raise and prepare the mine for production. I believe it will take this amount to complete the projected work and that a loan to this mine is justified.

Long Contact Mining Company Docket No. ND-5891 6. DESCRIPTION OF PROJECT A. Legal Considerations Attached to the application is a partnership agreement between the seven general partners. 2. Also attached is a copy of the Lease and Option dated July 21, 1939 from E. D. Morton (Arizona Mgr. of Eagle Pitcher Mining Co.) to E. J. Neumer, one of the partners. Property consists of 16 patented claims. All royalty payments shall apply against a purchase price of \$10,000 due on or before July 1, 1945. Royalty amounts to 10% of net smelter payments. Minimum work requirement is 60 shifts per month. The Long Contact Mining Co. must pay all taxes levied against the property. 3. Likewise attached to the application is a copy of a lease granting the east end of the property to the B. & R. Mines Inc. from the Long Contact' Mining Company. A copy of this lease is already in Washington under Docket No. B-ND-4801 and the property lines are shown on my map accompanying my report. If a loan is granted the Long Contact Mining Co., I believe that the applicant should agree to the following conditions in order to protect the interests of the R. F. C. in the B. & R. Mines:-1. The Long Contact Mining Co. should waive all fixed monthly payments and minimum work requirements affecting the B. & R. Mines for the life of both loans. 2. The Long Contact should agree that all surface and underground facilities could be used jointly by the 'B. & R. Mines with them and that the B. & R. Mines could use their raise for extraction of ore on the other side of the property line because if ore is found in the raise it will undoubtedly extend over the property line onto the B. & R. ground. The applicant states that they are free and clear of all debt. The state mine inspector has ruled that the raise must be completed before the ore is stoped and it was for this reason that the applicant has requested a loan as they do not have enough money to complete the raise before shipping ore. However, the mine inspector will allow them to develop and mine the ore by a series of finger raises off the main raise. In any event, a raise is necessary in order to determine the extent and value of the ore body, to provide ventilation for the lower crosscut, and is necessary later for the mining of the ore developed. 3. The life of the lease should be extended past July 1, 1945. 2 -

Long Contact Mining Company Docket No. ND-5891

# B. Existing Development

Previous reports already on file in Washington describe this project as well as the B. & R. Mines (B-ND-4801) so reference is now made to this docket.

Briefly the mine consists of a long persistent vein known as the Alto Vein. The outcrop of the vein has been stoped for long distances ever since 1687 although most of the surface workings are now inaccessible and no complete data is available on the production from the surface workings. These workings extend to a probable depth of 150° below the outcrop.

From 1926-1929 the Tonopah Development Co. of Nevada drove a 2200 foot drift east along the vein and this tunnel has an average depth of 250° below the vein outcrop. The assay map on this drift is available but the tunnel is now caved and inaccessible. Furthermore, it is my opinion that this drift was not extended east far enough to expose the probable ore above the applicant's lower workings although the face of this long drift is now in ore according to the maps. This drift is approximately 100 feet below the bottom of the surface workings.

The Long Contact Mining Co. together with the B. & R. Mines drove a 1250 foot crosscut to intersect the vein at a depth of about 500 feet below the outcrop and 220 feet below the Tonopah drift. The two companies have drifted along the vein from the lower crosscut for a distance of 180 feet with half of the drift being in the B. & R. Mines ground and the other half on the Long Contact property. Also, the Long Contact Co. has raised up in the vein for 73 feet and it will take another 260 feet of raise to connect with the old surface workings.

Attached to this report are two maps of the workings which also show the samples taken and the ore shipped. These maps were compiled from various old maps and data that is believed to be reliable although there may be some local inaccuracies.

# C. Surface Improvements

The mine is completely equipped with compressor, drilling equipment, camp, ore bins, and all necessary mining equipment.

The applicant company has also built a small concentrating mill (jig) but it has not been properly constructed so will not be considered under this project.

Since all the proposed work will be by means of raising above an adit no hoisting or pumping equipment is necessary. The present lower main crosscut furnishes sufficient water for the mine equipment use.

#### D. General Geology of Area

The Alto vein, covered in large part by the Long Contact Mining Company lease, is the largest and most persistent vein in this district. Other mines in this area include the Jefferson Mines (B-ND-4070) and the Bland Mine (A.T. Russell - ND-5877). The geology of the region has been well covered by U. S. G. S. Bulletin 582, by F. C. Schrader, a copy of which is included with the application. This area has not produced any large mines, but has furnished considerable high grade ore.

The country rock in this region consists of intrusive and extrusive igneous rocks while the ores of the district are usually complex sulfides of copper, lead, and zinc, with a considerable gold and silver content. There is no available geologic map of this area.

# E. Economic Geology of Deposit

The Alto vein is a fissure vein following a poorly developed fault. The vein is irregular in dip and strike and often splits and branches. In some parts of the vein it is partly frozen to the walls and locally there are some evidences of the vein replacing the wall rock. Quartz is the principal gangue mineral, while galena, argentite, chalcopyrite, pyrite, tetrahedrite, and chalcocite are the major ore minerals.

There is apparently no faulting of importance in this mine and oxidation and secondary enrichment are of importance only in the old surface workings.

While the vein is fairly continuous for several thousand feet along its strike, only two areas are sufficiently mineralized to warrant stoping. The largest ore shoot, and the only one under consideration in this report, is the ore found between the new lower crosscut and the bottom of the old surface workings above. In this area the vein varies in width from 6 to 40 inches with an average sample width of 25 inches.

#### F. Ore Reserves

The average of all samples shown on the assay map is 0.09 oz. gold, 7.2 oz. silver, 1.43% copper, 5.76% lead, and 2.51% zinc. In order to obtain payment for all of the metal content, it would be necessary to ship this type of ore to a custom mill (Shattuck-Denn at Bisbee).

The average value of the known shipments from this property (including B. & R. Mines) for 261.68 short dry tons was 0.076 oz. gold, 19.31 oz. silver, 4.2% copper, 17.08% lead, and 2.22% zinc. In the case of the shipments from the B. & R. Mines, the ore was sorted so that part of the ore containing most of the lead was shipped to a lead smelter and the copper rich ore sent to a copper smelter. This procedure could be followed in future ore produced from the Long Contact Mine.

My last samples taken at the head of the new raise from the lower tunnel averaged 0.06 oz. gold, 6.8 oz. silver, 0.58% copper, 16.93% lead and 2.49% zinc across 30 inches. This raise is now up 73 feet and has produced 45.0 tons of ore for which the shipper was paid at the mine \$1307.73 or \$29.06 per ton. This amounts to a net payment per foot of \$17.91, which can be credited against the estimated raise cost per foot of \$32.00.

The following is an estimation of the net value of the ore if shipped to the El Paso Lead Smelter:-

Smelter Payment on Ore in Face of Raise (30")	(El Paso Smelter)
Gold 0.06 oz. x \$32.31825 = Silver 6.8 oz1 = 5.8 x \$0.69125 = Copper 0.58% - less than 1% - no payment Lead 16.79% - 1.5 = 15.29 x 2000 x 90% =	\$1.94
275.2 x \$0.049 = Zinc 3.49% - no payment - no penalty	13.49
Total Smelter Payment	\$ 19.44
Bonus Payments on Copper and Lead	
Copper 0.58% x 70% - no payment Lead 16.79% x 2000 x 93% x \$0.0275 =	8.77
Total Bonus Payment	\$ 28.77
Total Ore Payments	\$ 28.21
Marketing Charges	
Smelting \$ 3.94 Bullion Tax 0.06 Insoluble, Sulfur, Sb, Bi 4.00 Freight & Tax (R.R.) 2.67 Hauling (truck) 2.00 Royalty (10% x \$8.77) .88	
Total Marketing Charges	\$ 13.55
Net Profit before Mining Cost	\$ 14.66/ton
Estimated Mining Cost	\$8.00/ton
Estimated Net Profit	\$6.66/ton
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Ore Produced from each Foot of Raise (5' x 14' cross section)

22 vein width x lh: stope length = 2.9 tons/ft. - 0.9 tons dilution
12 cu. ft./ton

loss = 2 tons/ft. x \$14.66 = \$29.32 gross value of ore per foot at raise

Estimated Tonnage Available for Mining (Probable Ore) 12,000 tons less dilution (1/4) and narrow vein areas (1/4) = 6,000 tons x \$6.00 net/ton = \$36,000 probable amount available for loan repayment

Long Contact Mining Company Docket No. ND-5891

# G. Economic Considerations

After the raise is completed to the upper workings (260') it is planned to stope the ore, using filled stopes after picking the ore in the stope.

Besides the Superintendent it is estimated that four men will be employed for one shift and these men are now working either for the applicant company or for the B & R Mines, Inc.

The wage scale will be:	
Superintendent -	\$200/mo
Raise miner	\$ 8/day
Helper	\$ 7/day
Mucker and trammer	\$ 6/day
Outside man	\$ 7/day

Estimated	cost per	· foot	for	raising	\$32.00
Drifting c	ost per	foot			15.56
Estimated	stoping	cost	per i	ton	8.00

After the raise is completed which will take about six months, the mine should produce from 30 to 50 tons per day from stoping.

The Long Contact Mining Company estimate they have spent \$55,000 of their own money to date on the mine. Their former superintendent was wasteful and inexperienced so the Company was never able to complete the raise as planned and they are now out of funds.

# 7. Proposed Expenditures

Raise approximately 300° @ \$32/ft	\$9,600.00
Payment on tugger hoist and 750' cable	200.00
Haulage of supplies	300.00
Supervisor six months @ \$200/mo	1,200.00
Insurance, social security, unemploy. in	900.00
Bank charges, six months	75.00
Loan interest, six months	300.00
Reserve for contingencies and stoping	2,425.00
Total for loan	\$15,000.00

# 8. Comments of Supervising Engineer

I believe a loan is justified for this project for the following reasons:

- 1. The applicant now has all the equipment and labor available to complete the project.
- The applicant already has spent a considerable sum of money on the mine.
- 3. The successful development of this mine may enable the loan on the adjoining B & R Mine to be repaid.

Long Contact Mining Company Docket No. ND-5891

4. Applicant now has a competent superintendent to operate the project.

# 1 1

- 5. The mine has economically produced considerable high grade shipping ore in the past and can operate without extra premiums for copper and lead.
- 6. The mine contains a large area of vein matter (260 feet of backs) that could produce a large tonnage of ore.
- 7. The present face of the raise is in ore as are the various lower faces in the upper workings.
- 8. While there is no blocked out ore, the mine could, if the proposed development work is successful, produce sufficient shipping ore to more than repay the loan requested.

WM. B. MAITLAND Supervising Engineer. No. **394** Ma

CHAS. A. DIEHL

Phoenix, Arizona, Nov.12, 1943.

# ARIZONA ASSAY

OFFICE

Phone 3-4001

815 North First Street

P. O. Box 1148

This Certifies That samples submitted for assay by Mr. Wm. B. Maitland.

contain as follows per ton of 2000 lbs. Avoir.

-	LONG CONTAC	r MINING Width	COstr	VER	VALUE (02)	GC	LD	VALU	E (0z.)	TOTAL VALUE	PERCENTAGE				
_	LONG CONTAC	Width	Ounces	Tenths	<u> </u>	Ounces	Hundths			Of Gold and Silver CO	COPPER	LEAD	ZINC		REMARKS
	77	24 <sup>11</sup>	4.	5			.08	\$2	.80	1	1 .	15.59	1		
	78	36 <sup>4</sup>	8,	3			.05	\$1	•75		70	17.60	2.69		
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Charges	<sub>s</sub> 9\$00
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Assayer ARIZONA ASSAY OFFICE

Report of Supering Engineer Docht Mo. NO 5891 Date authorization for Exam reed Nov 19, 1943 Date of Gram melus - Mor 10, 1943 Date of Peyort Dec 6, 1943 1. Mame + addless of applicant Mane - Long Contact Mung Co. address- 1301 W. Jankson Blad, " City + State - Chronyo, all. Coneyordent - H. J. Burnsvarcher P.O. Box 892, Mogales, aing 2. Church of Project.

Type of Mic - To fina To finance the further development of a good, silver, copper, led, zine vein now exposed by a deep level acht and since 3. Location of Mine Mame of mine-alto Township, sange, rection - Sec 11, 12, 13, 14, T215, R14E b. + S. P. B + M Mining District, County, State - Tyndell mining District, Sante Cruz Co, arrigora Mane and distance by road nevert railing station -ရှိဝါဝါဝါဝါဝါဝ Patagonia a town on the Southern Parific Rahand is 18 miles south east XXX of the more. Condition and seasonal accessfults of wood, mine to railway - Except for the

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	Copyer 0,58% x 70% No payment	
2,50	Lend 16.79 %x2000 x95%x 40.0275	8.77
16 78	Total Bonus Payment	28.21
97-4,41	Total Ore Payments	
(A)	Marketing Charges	
(10)	Smelling 3.94	
19,44	Bullion Tax 0.06	•
14,44	Insoluble, Sulsar, Sb, Bi 4,00	
3,50	Freight + Tax (R.R) 2.67	
44	Hanling (truck) 2,00	
1,40	Royalty (102x 8.77) .88	
3.94	Total Marketing Charges	13.55
10,67	Net profit before mining cost	\$14.66 / ton
330	Estimated Mining Cost	48,00 /ton
19.44	Estimated Net Profit	\$6.66 / Hon.
19,44	Dre Produced Srom Each Fobt of Raise (5'x14' cro	•
10/11	22 vein width x 14 stope length 1 2,9 +	ons /St - 0.9 tons dy lation -
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Estimated cost per fort for sawing \$ 32.00

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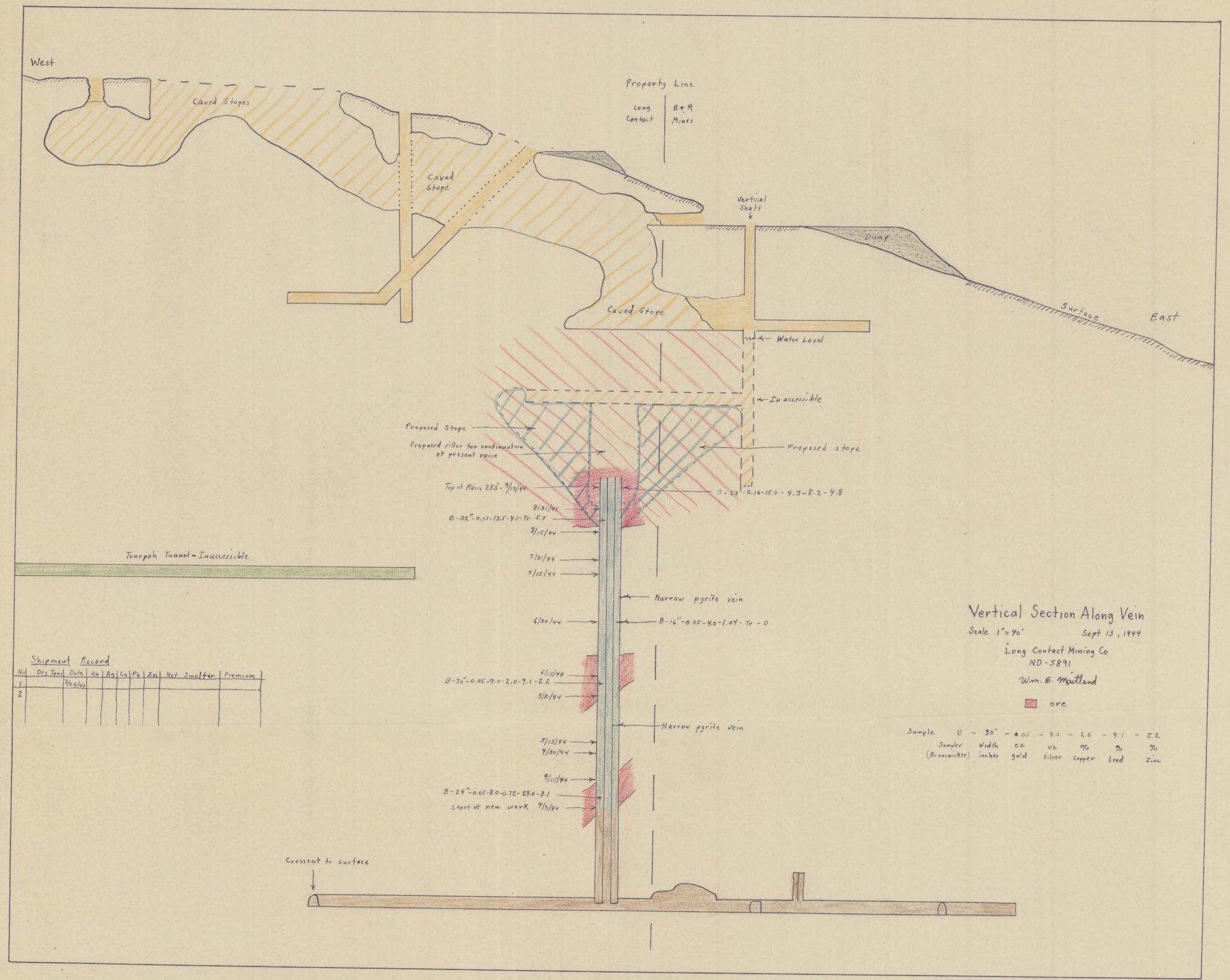
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7 Proposed appenditues. 9600.00 Ranse apper 300' @ 32/ft Payment on trugger houst & 700'cath 200.00 300,00 Hanlage of supplies Superismon 6 mo @ \$200/mo chromane, sound Securts, Menylay choos 900.00 Bank charges 6 mo 75,00 Loan clitest 6 mo 300,00 Reserve for continguences + stoping 8. Commute of Engening Engineer. de Relieve or loom is justified for this project for the following reasons! -1. The applicant now has all the equipment and laker available to complete the project 2 The applicant already has spent a considerable sum of money on the more 3. The successful development of This mine many enable the loan on the aptyoining B+P mmer to be repoind 4. applicant now has a congetent superintendit to operate the project. 5 The mine has economically produced considerable high gude shipping one in the past and can operate muttant extra premiums for copper and lead 6. The mine contains a large area of vein matter (210 feet of boules) That could produce a large longer of ore 7. The present face of The raise is in one as are the varring faces in the ryper morkings.

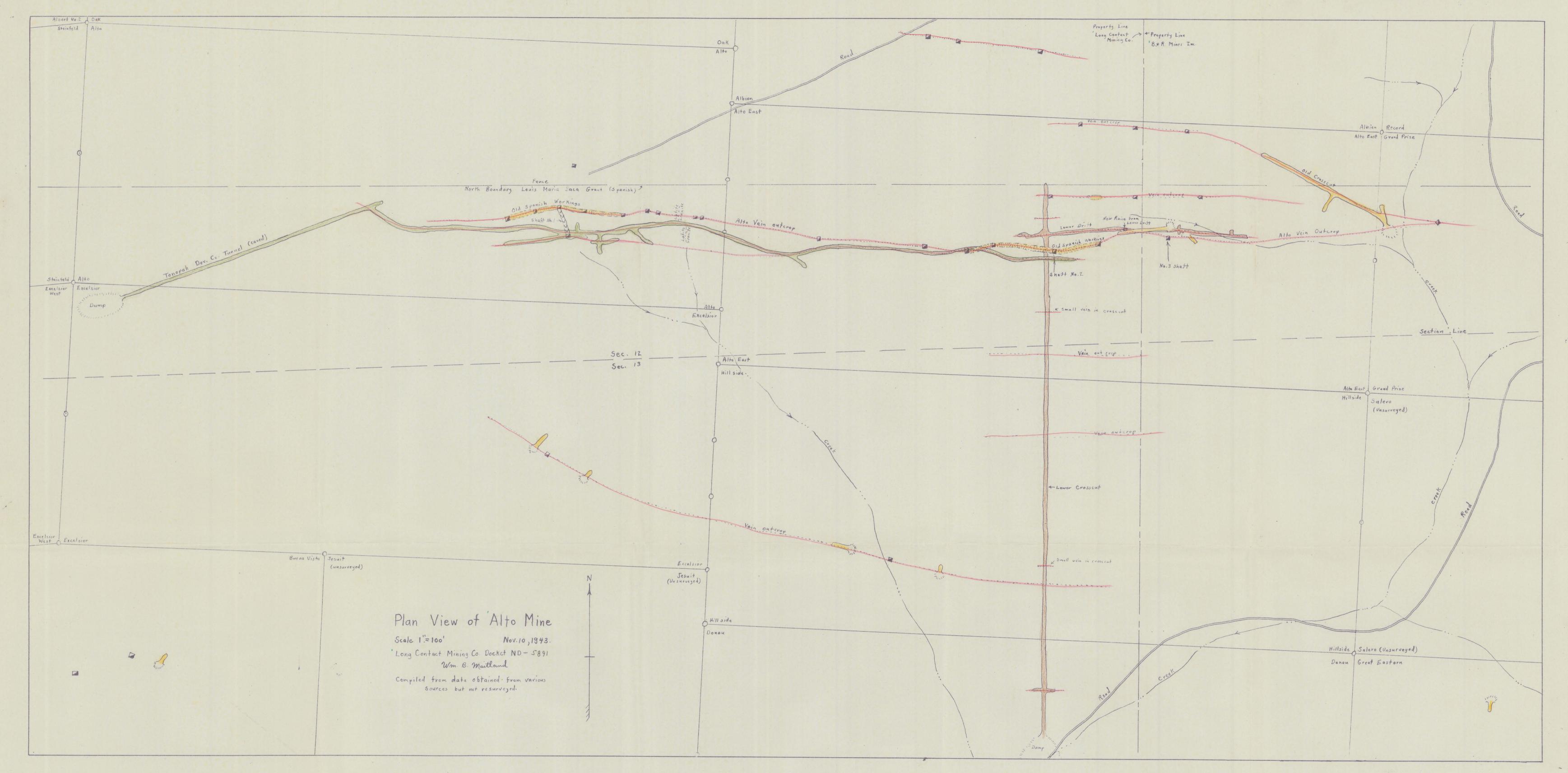
8. While there so blocked and are, The more is let, if the proposed development works so sures ful, produce sufferent ships one to more than you the lone requested

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