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Reconstruction Finance Corporation Arizona Records

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	E Contraction of the second
00 More	ers 23 Ouortri ven
	2 Ouorte vein
	1 Quarte & gouge
	926 926 35 High - 905
	Stope 30 High
	Winze 0 Deep Stope 15 High 65 Deep 460 FOOT Winze 65 Deep 4908 5 VEL a 10 10 10 10 10 10 10 10 10 10
	925 - 921 - 904 - 907
er Width Location Character percent Copper 0.7' North and stope schist & quartz 5.67 1.0 South and stope silicified schist 4.49	920 - 905 - Stope
I.2         Fool wall         " <th"< th="">         "         <th"< th="">         "         "         <th"<< td=""><td>919 - 906 50</td></th"<<></th"<></th"<>	919 - 906 50
1.0 Foot wall schist 8 quartz 1.40 2.8 Face suicified schief 0.50	924 - 918 D.D.Hole - T.EVEL
2.6         Face         """"""""""""""""""""""""""""""""""""	11 9/7 10 tour 10 19/3
E.0         "         " & quartz         0.38           3.6         "         ellicified schief         4.37           2.5         Slope         quartz         15.41	Short 914
I.O.         Face         Schist & guartz         I.S.41           I.S.         Back         ozidized schist         3.45           J.G.         "         "         0.40           2.4         Face         "         0.80	
COMPOSITE SAMPLES ers Average Percent Ounces Ounces Width Copper Gold Silver	Si S
High         Gold         Silver           16         1.4'         3.10         .045         .50           23         2.6         3.62         .040         20           26         2.5         1.16         .050         .15	
	Scale of Feet
- ASSAY MAP AND PLAN OF THE	MOUNTAIN COPPER MINE, YAVAPAI COUNTY, ARIZONA

### DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine	Э	MOUNTAIN COPPER CORPORATION	CU.	Date	January 4, 1943
Distr	ict	Agua Fria		Engineer	Earl F. Hastings
Subj	ect:	Reconstruction Finance Corpo Preliminary Development Loan			
Dat	and the second se	ication Received ield Examination			C-ND-Phoenix 119 January 1, 1943 None January 4, 1943
1.		and address of applicant (cor ain Copper Company, Pierre Pe			182, Mayer, Arizona.
2.	Copper	ter of project and estimated . Unwater and re-enter the \$5000.00.			ot levels from the main
3.		ion of property: Pria Mining District, T 12 N,	R 2 E, Ya	vapai Coun	ty, Arizona.
4.	the second se	ant's interest in or ownersh ant is President of owning c	CONTRACTOR OF THE OWNER OF THE OWNER		
5.	Loan 1 \$5000	equested:			
6.	Loan 1 \$5000.	ecommended: .00			
7.	the no stated attach	ts: The mine is currently in operator ortherly and southerly faces of in verbal communication that ned exhibit represented unsor 4.03%, 5.12%, and 3.64% respect	of the 109 t the last ted ore fr	foot level three set	l drift. The applicant tlement sheets in the
1	immedi feet 1 north shippe foot 1	The north face of the 250 foot ately following unwatering. ong, exposed in Tunnel #1, a 250 foot level from which or ed. A smaller shoot is exposed evels. Some ore is exposed in a above shoots have not been	There is a winze the s ranging b ad south of near the si	apparently refrom, the widely from f the shaft haft on the	a shoot of ore, some 120 e north 109 level and the a 4 to 20% copper can be t on both the 109 and 250 e 350 and 460 foot level
	purpos	Reopening the 250 foot level a les. Unwatering the 350 and a shed at slight additional com	460 foot 1	evels for	levelopment can be ac-

complished at slight additional cost. The latter levels need not be repaired in their entirety, but only so far as is required for such development of these specified shoots. This development can be accomplished while productive from the upper levels. (D) Added to the docket is a Mine Owners Report executed by the former president of the Mountain Copper Company. The report attached to the form is a copy from the printed original of Carl G. Barth, deceased, a former Field Engineer for the Department of Mineral Resources.

Arizona Department of Mineral Resources

Earl F. Hastings Assistant Director and Projects Engineer

Report of Supervising Engineer ()Dochet No CND 8021 Date anthonyation for Examples Received Se note Below Date of Examination June 11, 1945 Date of Rynt Om Jan 1943 a \$5000 loan was granted This project morder to make promport a 460 foot shaft and make 5 levels of the mine accessible. Applicant, dist this more but did not notify this office that the mine was accessible that on one of my (7)trips into this area of stopped on June 11, 1943 at the mine to find out what progress was being made. The president of the Corporation Mr. Prene Peragy was not at the more at the time of my vesit, and due to an uflow of water the mine was again not accessible below The 250 fort level altho The Bureaw of Mines Engineers had already mapped and sampled The mine before the time of my wort, a copy of Their maps and report accorganies This report, Comes now the applicant with a request for a further loor of \$30,000, 1. name + address of applicant. Mame - mountain Copper Corp address - P.O. Bort 182 City + Stete - manger, aring Conespondent - Prene Peny, President 2. Character of Project To mine a block of partly developed copper ore and to do a limited amount of lateral development work.

~ ~/ Jourship, range Section - Masurrey Section, TI2N, RZE, G+SR, County + State - aqua Fina Mining District, Yarapailo, 1 76 any nome + Distance by road nearest railway station -Mayer a town on the Soute Se Railing 0 Condition and seasonal accessibility of road more to railing. This is a well greded dut wood that should be any year as the elevetion at more 4200 feet so lattle of any show Galls driving the minter should be accessible at all times of the year as the elevetion at the mine is only 0 4 applient Control of m. Pierre Perry a Frenchman who is appnently a practical mine operator. I do not believe. That he has had a great deal gached mining efferience but he is energetic and resourceful and since The operation of this project is not Congenerated he should be capable of to operate the mine 5 Joan Requested The application dated Jume 15, 1943 requests a loan of \$ 30,000. However in The applicants letter of ang 12 ( which is attached to the application ) he requests a loan of \$20,000 and later on any 17 the the applicant requests me to make any changes or reductions al aser fit a lt is my opinion that The mine will not require more than "10,000 to place

3,00 (3) 60 it on production and do the limited amont of 59 development work indicated. Therefor at the request 24 208 of the applicant I have reduced the loan to 1048 #15,000 of this anost 5000 mill be used to regay The premions loan and #10,000 to be used for future mork. 6 Description of Project applicant corporation owns 15 mystertid claims. The project should caryly with all State Mang Ramo. 3 7. Existing Development It The property is developed by a 460 foot one and me congentimat nertical shaft with 5-linels but only the three mype hels are in ore. accompanying This report are two mine maps based upon the a Survey by the Bureau of mines. also attached is a report on the more by The Bureau of Mines Sime this report fully describes the nime and was found convert al do not believe it neussang for me to regeat the data, The one is uppoid on three levels and in a monter of small monges and rances. The assays show that the limits of the ne body have not been reached eather to the north or south on the 110' Level nor to the month on the 250' hud otherwise the signe and shape of the ore lense is will defined.

(4) 8. Improvements and Equipment The mine now contamis all of the neussing tools and equipment mit which to stope The one effected and do the required development mork. This equipment consists of the following 1 - 1 cylude fuel oil engine + horst 1- V& Jord 5 ton dung tunk 2- large pressure tamks 1- Jack puny for sheft 1- Peerless deep mell turbine pump in shift 2- 1 Tom tham cans 1 - Rif 210 cm ft compressor with gas engine 1 - Erd 30 HP. 4 cylander gas engine (F) ~ 1 - Wankesha 4 cylinder & H.P. gas egue 1-IR an tugger hoist 1-IR chingenal #10, 2 cyliche homontal congressor and I cylinder Charter fuel oil engine 5 Jackhammers 3 stopens, dill stul tool, ite The Peiles pung (\$400.00) and \$350 month of pype and tools more purchased with loan funds. 143.34 152.61 In addition the shaft was dewatered and the mine 56,17 352.12 clemed and with the balance of the Good loan already granted.

9. One Reserves. anoding to the surran of mines and my estimation the mine contains 6630 tons of partially blocked and are that will average 3 % copper and 0.044 ownes of gold. It is safe to say that in addition the mine also contains por 3000 tons of probable one of the same grade which will probably be found, along the marguno of 490 the nam ore short to the north and south. The applicant intends to ship to the Clarkdale smelter and he states that he has been granted an additional copper premium of 8,9° pin pound. Based on these fragmes the varlue of the one can be calculated as follows :-Smelter Value of one ( Clarkdole Smulter, Phelps Dodge) 3 % copper = 60 lbs - 10 lbs = 50 lbx 0.09275 = 4.64 0.044 og gald × #31.00 = 1.36 Sotel Snelter value of ore \$ 6.00 per Im B Premin Payments a Ore 60 lls × 97% × 40.05 per lk (1st premm) 2.91 60 lb x 97% x 40.089 per ll (2nd prenum) 5,18 Sotel premium value for \$ 18.09 14.09 Total walne of ne marketing changes. Base Smilter Rate (mammin) #2.75 Rail Rail freight (mayer - Claubdale) 1.03 Insking 9 miles Mire to Mayer 1.03 \$ 4.81 \$ 9.28 Total marketing charges Net value of one at collar of more shaft Estimated ming cost per ton (2 ft mide vin) Estimated met profit per ton 6.00

(6) Estimated total pupiton. 6630 tomo \$ 21, 746.40 The one can be selectively mined; and the gande mereased and the tonnage decreased this mereaning The net profit per ton . However this mould defeat the purpose of the premi 6630 as it would decrease the total poundage of 3,28 4 copper produced. The walls of the vein stand mell and the ore is not loo hard so ming costs shall not be exercise. The chief disadvantage in handling this ore is the narrow wratthe of the very and it may be necessary to carry a mide stope mide than the most of the wein a the the production rate shall be 20 tons ker days and 6 men should be on ishift pe day send the 10 Proposed Expenditures I have had no apportunity to discuss the proposed expenditures in detail mute the applicant altho we have reached an 0 agreement in principal a consider The following expenditiones necessary at will take 30 days before smelter settlements are paid! - le Repayment of First Rom \$5000.00 126 30 dans lator 6 men @ \$7 per day each (stoping) 1260.00 Insurrance digosit 500.00 4601 Porgroll tapies, congenetion monumer, etc advance on freight 20 tro/day & 30 days x 1/2m 1' 1' hanhing '' '' '' 42 200.00 1280 600.00 600.00 Operating supplies for 30 days (pounder, fuel, etc) 1500.00 ~ Stope preparation (mstallation of chutes, timber, etc) 1000.00 new several yound Work. 511 Drift south 30ft on 110 level @ #17/ft. 510.00

12 190 1,00 Drift north a 110' Level 50 ft @ 4 17/ft. Drift north a 250' level 50 ft @ 17/ft 850,00 850.00 17 850 V Reciver for contingencies. 2130.00 Lotal for loan \$ 15,000,00 It is entries possible that this perjuty in the hands of an experienced operator could be placed on production for less than \$10,000 but sund 3 ming costs are rising and there is always a certain atomit of expensive delays in getting a projecting started, I believe stemill be necessary \$10,000 mill be necessary. il believe that one of the conditions of the loan should be that the applicant must start stopping the one first and ofthe he is on a permanent shyping basis, the boar drifting on the reasons levels as contlined above should be done Furthermore I do not believe that any exploration mark should be allowed on the 350 or 460 foot levels as this would be prosperting and I do not believe that the 12870 2130 applicant should spend any further money a equipment or susface infrovenuts. 11 Commute of Sugering aginer I believe that a loar as onithird is warented for this project provided that and subscients one is still needed at the Clark dale Smalter. and copper for War Offort. This is a marginal property containing

a limited tonnage of one. Without the additional lorms of 8.94 per found for copper, the one mill not pay to ship. The property during the last two years has produced 309 tons of one that averaged 5,38 % copper and 0.048 og gold. In the future The programme should produce 6630 tons of ore averaging 3 % copper and 0,044 owners of gold. Sme This mine is now fully equipped and ready to start producing and is now enploying two of the 6 men necessary to operate the project, I believe a loan is justified due to the increased price of copper sheady granted.  $(\mathbf{7})$ Mmsmith Sup Eng.

mountain Copper Corp Sincetti Wet Premin Jotel Solel Street Harris 13.9 # met net/Hom Dry Ins Location of ore Date eved | % Cn Shyment No in mine 0.07 2.85 \$134,45 47.694 16/44 5 382.32 247,87 220 40.640 /4/44 1.74 6 0.05 4.86 190.71 195.57 220 46.842 2/10/44 0035 1.42 - 48.74 220 7 130.57 179.31 92.833 3/6/44 0.03 1.89 - 44.80 473.16 428,36 220 8 109.598 4/4/44 8.05 2.12 90.59 9 626,55 220 717.14 52, 823 4/10/44 0.04 106.24 2.99 425,90 532.14 10 220 41.242 4/18/44 0.05 2.80 85,93 220' 11. 397,43 311.50 45.609 5/10/44 0.04 7.19 415.45 Wange 110 level 12 1299,77 884.32 42.741 5/16/44 0.01 - 13.83 yellow kid shaft 13 2.37 273.14 259.31 50.146 5/29/44 0.08 944.40 110 herel muso sheft 4.67 631,62 14 312.78 570.168 1/6- 0.046 10 42.93 \$4244.08 \$5287.01 \$9.27 10 2.76% 2.76% 7.44 9.27 114.03 tons/mo. 0.046 \$1.83 9.27 Ner ton Position as of June 1, 1944 A 15,000.00 Total Loan Granted Less "C" Loan 5 060.27 Toan finds available for mining \$9,939,73 Credito for shymento becomed 5287.01 miss credit 271.75 Total redits 5498.76 Total recepts # 15,438.49 Less expenditives to date 13,251.91 A 2,186.58 Balance of finds on hand or account appronunte expenditures per month (7 mos) \$1,893.13 recepto from shipmuto per month (5mo) 1, 057, 40 Estimated net loss per month to date # 835.73

Plack 2 to D. Black 1 5,18 16.23 5,41 3 1,5 3,45 1.19 3,45 1.44 2.9 3,6 0.40 2,11 2.3 1.15 2.4 2.65 0.88 5.41 16.23 0,72 3.0 3,5 2.52 1 3,45 3 1.19 2.9 0.25 0,75 2.65 2.8 2.3 1,15 0.38 1.06 2,52 4.37 3.5 15.30 3,5 0.72 3 0.75 38,53 15.41 0.25 2.5 3:45 3,45 1.06 1.0 2.8 0,38 1:35 4.37 15,30 2:6 3,5 0152 Black 3 3.08 38.53 15.41 2.5 213 1.34 1,00 3,45 3,45 0.8 1.0 1.25 2,17 2.9 92,67 0.4 5.42 32 2.7' 20% 2,52 2,10 1.2 , 7.16 8.59 1.2 4.49 4,49 1,0 3,97 D.7 5.67 1:3 N 5:45 7.09 3.03 1,3 3,94 ment 9.04 14.46 1.6 9.35 2 18,70 .044 1.40 1.0 1.40 3.010 1.40 2.8 0.50 158.10 3.5 44.7 t. 2' 324.93 23 496.9 35 74.16 2000 20.2 1.4' 3,7%

, 8, 9 \$ formo. • . , 1

RECONSTRUCTION FIMANCE CORPORATION MINING DIVISION LIQUIDATION REPORT

Mun Thank

Borrower: Mountain Copper Corporation Docket No.: ND-5746 Date of Report: January 9, 1945

### 1. NAME AND ADDRESS OF APPLICANT:

Mountain Copper Corporation Box 182 Mayer, Arizona

### 2. LOCATION OF PROJECT:

In unsurveyed portions of T. 12 N., R. 2 E., Agua Fria Mining District, Yavapai County, Arizona; about 5 miles from Mayer, Arizona.

3. Amount of Loan and Date of Authorization:

A loan of \$15,000 was approved to Mountain Copper Corporation on September 13, 1943.

4. PURPOSES FOR WHICH LOAN WAS EXFENDED:

Loan was expended in mining siliceous copper ores, doing a limited amount of drifting in the upper levels and in purchasing a small amount of equipment.

# 5. EQUIPMENT:

2.0	Equipment purchased with loan funds:	
		1,364.15
	1 - Air tugger	125.00
	473 feet 3" pipe	118.25
	1 - 1941 Ford V8 motor for dump truck (Truck not owned by R.F.C.)	175.00
	Parts for Le Roi Portable Compressor (Compressor not owned by R.F.C.)	129.70
	420 feet 2" Std. Gal. Pipe, under water	107.90
	1 Sullivan Wiggle Tail Stoper	25.00
	200 Timkin bits	57.50
	1 Bench vice	7.50
	1 Receiver	16.00
	200 Assorted Timkin bits	61.50
	16 pieces of Timkin Steel	51.30
	580 pounds of steel plates	17.40
	2-6:50 V16 tire chains	11.00
	Unassorted quantity of unions, bushings,	
	valves, cocks, couplings	38.50
	525 feet of gal. pipe, various sizes, under water	
	2 Emery wheels	6.00
	18' - 12" f-ply Bull dog belting	35.00
	Miscellaneous small tools	100.00
		2,492.70

### Page 2 - Liquidation Report Mountain Copper Corporation

b. Equipment on hand, resale value and location:

473 feet 3" pipe	\$80.00			Mining Supply Prescott, Ariz.
18" - 12" 5 ply Bull dog belting	20.00		478	11
1 Sullivan Wiggle Tail stoper	15.00	At	the	mine
200 Timkin bits	25.00	-	11	
1 Receiver	8.00	=	11	n
200 Assorted Timkin bits	30.00	43	11	
16 pieces of Timkin steel	25.00		11	11
580 pounds of steel plate	9.00	11	.11	11
Miscellaneous assortment of unions,				
bushings, valves, cocks, couplings	18.00	11	12	11
2 - Emery wheels	3.00	Ħ	-	11
Miscellaneous small tools	50.00	n	Ħ	R

### c. Disposition of equipment:

Air tugger and vice sold latter part of December for \$65.00. Proceeds deposited in Trust account. Peerless Hi-lift pump sold latter part of December for \$600.00. Deposited in account January 3, 1945. Pump is in the mine and under water.

473 feet of 3" pipe and 18 foot belting are stored at Arizona Mining Supply, Prescott, Arizona.

d. Steps taken to liquidate remaining equipment:

Applicant has arranged for Arizona Mining Supply Corporation to store remaining equipment until sold.

# 6. PROPERTY:

Borrower holds property by right of location under state and federal laws.

7. COMMENTS:

Operations were terminated December 15, 1944, after the applicant had spent all of the money and had mined 830 tons of siliceous copper ore. The average grade was 3.65% cu and .069 ounces gold per ton. Returns netted the Borrower \$13.52 per ton before mining, hauling, overhead, and development. The property was last visited by Supervising Engineer William B. Maitland on June 23, 1944. Borrower has \$741.26 in the Trust account and will have \$62.04 coming from cancellations of compensation insurance. There will undoubtedly be some gas tax refunds, but no great amount. Apparently, from the contents of Borrower's letter to this office, there will be some additional bills and taxes to pay from funds received from sale of equipment.

### Page 3 - Liquidation Report Mountain Copper Corporation

### 8. CONCLUSION:

-1

Should contain a statement such as: The proposed project failed to develop any material quantity of ore, and with the exception of the remaining equipment worth salvaging, the property is believed to be of no value. Consequently, except for the salvage value of equipment, the loan should be considered a loss.

### 9. RECOMMENDATION:

It is recommended that this account be closed when the remaining equipment acquired, in whole or in part, with loan or operation funds which is considered worth salvaging has been liquidated and proceeds applied on Borrower's indebtedness.

COR

CHARLES A. RASOR Supervising Engineer 525 Heard Building Phoenix, Arizona July 6, 1944

TULLY - Ans's Chief - Mining Livision - NFC - Mashington, D. C.

Ne: Gald Hill Fredging Co - Scaket Mo. MD-5541 'Mountain Copper Corp. - Deaket No. MD-8021 Victory Manganese Co. - Docket No. E-ND-4320

Were Burn

1.40

Inclosed herewith please find my Progress Report, in duplicate, on the above captioned projects.

> WILLIAM B. MAITLAND Supervising Engineer

Snes bkb

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### RECONSTRUCTION FINANCE CORPORATION

### MINING DIVISION

PROGRESS REPORT OF SUPERVISING ENGINEER

Mountain Copper Corporation Docket No. ND-8021 Dated: July 6, 1944

On June 23rd I visited this project and found three men working. The 250 ft. level had been allowed to flood with water so was not accessible. According to the men working at the mine, as Mr. Perry was not present, they had exhausted the ore possibilities on the 250. They were then working above the 110 ft. level and were stoping a small amount of ore. Apparently this project will only produce three or four more cars of ore and then will be shut down.

Following is a recapitulation of the ore shipments to date and a statement of a balance of the funds on hand. From this analysis it is apparent that the operation has not been economical.

			Ship	ments	under "A Loan'			
Shipm No.		. Date	Oz Gold	% Cu.	Smelter Net before Hauling & Mining Cost	Premium 13.9¢	Total Net	Total Location Net/ton of ore in Mine
5 6 7 8 9	47.694	1-6-44	0.07	2.85	\$134.45	\$247.87	6000 00	and an and the second se
6	40.640	2-4-44	0.05	1.74	4.86	190.71	\$382.32	MMM
1	46.842	2-10-44	0.035	1.42	-48.74	179.31	195.57	
8	92.833	3-6-44	0.03	1.89	-44.80	473.16	130.57	NWU
	109.598	4-4-44	0.05	2.12	90.59	626.55	428.36	
10	52.823	. 4-10-44	0.04	2.99	106.24	425.90	717.14	in the contract of the contrac
11	41.242	4-18-44	0.05	2.80	85.93	A CALL SECTION OF A CALL SECTI	532.14	
12	45.609	5-10-44	0.04	7.19	415.45	311.50	397.43	
13	42.741	5-16-44	0.01	2.37	-13.83	884.32	1299.77	THE MARK STATES
14	50.146	5-29-44	0.08	4.67	312.78	273.14	259.31	and an apply as which the the time of the
					020010	631.62	944.40	110' level minor
10	570.168	1-6 -	n an in den state en an en an	ni veda o pybli na dvidd a yna			Marcania international providentia	shaft
-		5-29	0.046	2.76%	1042.93	\$4244.08	5287.01	\$9.27
Per ton	114.03/m	>/	0.046	2.76%	\$ 1.83	\$ 7.44 \$	nternet of Alex Alexandro House data and	\$9.27

Docket No. ND - 8021 Mountain Copper Corporation Progress Report

1-51

# Position as of June 1, 1944

-2-

Total Loan Granted	\$15,000.00 5,060.27
Loan funds available for mining	\$ 9,939.73
Total credits	\$ 5,498.76
Total receipts	
Less expenditures to date	13,251.91
Balance of funds on hand or accrued	2,186.58
Approximate expenditures per month (7 mos) Approximate receipts from shipments per	\$1,893.13
month (5 mo.)	1,057.40
Patrickel and See and much to be	A
Estimated net loss per month to date	9 835.73

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WM. B. MAITLAND Supervising Engineer 325 Heard Building Phoenix, Arizona mund pur

September 3, 1943

Tully - Ass't Chief - Mining Section - Washington Re: <u>Mountain Copper Company - C-ND-8021</u>

On August 27, 1943, I mailed you my report on this project with the comment that I would again visit the property in order to ascertain if additional work had been done since the time of my first visit.

On September 1, I re-visited this property and found that no important new development work had been done by the applicant. There are 3 men nowworking on this project and they are extending the stope located at the north end of the 250' level. This stope is now about 60' above the level of the drift and exposes a vein 3' wide.

Attached to this letter is an assay certificate. Sample No. 2 represents a grab sample of the ore last broken in the above mentioned stope. Sample No. 1, taken across 36" represents a small raise that has been started on the 250' level on the vein that is parallel to and just west of the vein in the stope already mentioned. This raise is located nearly at the intersection of the 2 veins shown on my map accompanying my report. I do not consider that these assays materially affect the conclusions given in my report, but I am submitting this information to you for your records.

> WM. B. MAITLAND Supervising Engineer

WBM:MJ Enclosure Assay Certificate

63

No. 382 Ma

### CHAS. A. DIEHL

A

Phoenix, Arizona,

# Sept.3, 1943.

Phone 3-4001

815 North First Street

SSAY

This Certifies That samples submitted for assay by

RIZONA

Mr.Wm.B.Maitland.

contain as follows per ton of 2000 lbs. Avoir.

P. O. Box 1148

At

	MARKS			VER	VALUE (0z.)		DLD		UE (0z.)		ALUE	%	PERCEN	NTAGE	%	RE	MARKS
No.	MTN. COPPI	SR CORP.	L Ounces	Tenths		Ounces	Hundths	2	1	Of Gold and	Silver	COPPER			1		
31		36 <sup>#</sup>					03	\$.	1,05	<i>k</i>		.80					
32	Grab	36	11				04		1.40			2.25					
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5		, a						-				2.1			2. 30		
		d								1		1					

525 Heard Building Phoenix, Arizona August 27,1943

Mountain Copper Corporation, PLO.Box No. 182, Mayer, Arizona.

> Re: Mountain Copper Corporation Docket No. C-ND-8021

Gentlemen:-

Attention: - Mr. Pierre Perry.

I intend to be in Mayer Tuesday on another matter, and would like to visit your property on Wednesday, Septomber 1st in order to inspect the new ore showings about which you have written us. If it is convenient for you, I would like to see you at the property in order to discuss certain aspects of your loan application. It is indeed unfortunate that I always happen to be out of the office at the time your visits to Phoenix. However, your loan application has been sent to Washington together with my report. After my inspection of the property, I anticipated sending a Supplementary Report to Washington in order that your application will not be delayed.

Sincerely yours.

WM. B. MAITLAND Supervising Engineer

WBM:mr

oo Washington

325 Heard Building Phoenix, Arizona August 28,1943.

TULLY - Asst. Chief - Mining Section - Washington D. C. ( Re: Mountain Copper Corp., Docket No. C - ND- 8021.

Enclosed please find two copies of my report on the above captioned docket together with one copy of an application for \$30,000 loan. It is my recommendation that this loan be reduced to \$15,000, \$5,000 of which is to be used to repay the accessibility loan granted this project January, 1943.

There is some confusion in the dates pertaining to this application. The applicant dated his application as of June 15th, but did not submit it to this office until this month as he was waiting for a premium on copper from the War Production Board, and this premium of 8.90 was recently granted. On June 11th I examined the mine in order to report on the grogress being made and it is on the basis of this examination that my report was written. I do not believe that much if any development work was done after the time of my examination as at that time the applicant had already spent all of his funds. However, in order to be sure of this point, I plan to reexamine the mine within the next few days, and will submit immediately to Washington a Supplementary Report on any work subsequently done since my first examination. Since the applicant does not live in Phoenix, it has been difficult to discuss with him the changes I have made in his application. However, the enclosed correspondence indicates that the applicant will be satisfied with any alteration I have made. In any event, it is my opinion that the mine does not justify a loan greater than the amount I have recommended.

> MM. B. MAITLAND Supervising Engineer.

### RECONSTRUCTION FINANCE CORPORATION MINING DIVISION REPORT OF SUPERVISING ENGINEER

Docket No. G-ND\_SO21 (Date Authorization for Examination (Received See Note Below Date of Examination June 11,1943. Date of Report August 31,1943.

In January, 1943 a \$5,000 loan was granted this project in order to pump out a 460-foot shaft, and make 5 levels of the mine accessible. Applicant corporation did this work, but did not notify this office that the mine was accessible although on one of my trips into this area I stopped on June 11,1948 at the mine to find out what progress was being made. The president of the Corporation, My. Pierre Perry was not at the mine at the time of my visit, and due to an inflow of water the mine was again not accessible below the 250-foot level although the Bureau of Mines Engineers had already mapped and sampled the mine before the time of my visit. A copy of their mapsend report accompanies this report. Comes now the applicant with a request for a further loan of \$30,000.

1. NAME AND ADDRESS OF APPLICANT

Name..... Mountain Copper Corporation Address..... P.O.Box No. 182 City & State..... Mayer, Arizona Correspondent - Pierre Perry, President

2. CHARACTER OF PROJECT

and To mine a block of partly developed silicious copper ore/to do a limited amount of lateral development.work.

### S. LOCATION OF MINE - Minor Mine,

Township, Range Section - Unsurveyed Section, T12N, R2E, G & S.R. B & M. County & State - Aqua Fria Mining District, Yavapai County, Ariz. Name and distance by road nearest railway station- Mayer, a town on the Santa Fe Railway is five miles by road west of the mine.

Condition and seasonal accessibility of road mine to railway. This is a well graded dirt road that should be accessible at all times of the year as the elevation at the mine is only 4,200 feet so little if any show falls during the winter.

### 4. APPLICATION

The applicant corporation is under the control of Mr. Pierre Perry, a middle-aged Frenchman who is apparently a practical mine operator. I do not believe that he has had a great deal of actual mining experience, but he is energetic and resourceful and since the operation of this project is not complicated, he should be capable to operate the mine.

### 5. LOAN REQUESTED

The application dated June 15,1943 requests a loan of \$30,000. However, in the applicant's letter of August 12th (which is attached to the application) he requests a loan of \$20,000, and later on August 18th, the applicant requests me to make any changes or reductions I see fit. It is my opinion that the mine will not require more than \$10,000 to place it on production, and do the limited amount of development work indicated. Therefore, at the request of the applicant I have reduced the loan to \$15,000. Of this amount \$5,000 will be used to repay the previous loan and \$10,000 to be used for future work.

#### 6. DESCRIPTION OF PROJECT

Applicant corporation owns 15 unpatented claims. The project should comply with all State Hining Laws.

### 7. EXISTING DEVELOPMENT

The property is developed by a 460-foot one and one half compartment vertical shaft with 5 levels but only the three upper levels are in ore. Accompanying this report are two mine maps based upon a survey by the Bureau of Mines. Also attached is a report on the mine by the Bureau of Mines. Since this report fully describes the mine, and was found correct, I do not believe it necessary for me to repeat the data.

The ore is exposed on three levels and in a number of small winzes and raises. The assays show that the limits of the ore body have not been reached either to the north or south on the 110' level nor to the north on the 250' level, otherwize the size and shape of the ore lense is well defined.

### 8. INPROVEMENTS AND EQUIPMENT

The mine now contains all of the necessary tools and equipment with which to stope the ore exposed and do the reguired development work. This equipment consists of the following:

- 1 1 cylinder fuel oil engine & hoist
- 1 VS Ford 5-ton dump truck
- 2 Large air pressure tanks
- 1 Jack pump for shaft
- 1 Peerless deep well turbine pump in shaft
- 2 1 ton tran cars
- 1 Riz 210 cu. ft. compressor with gas engine
- 1 End 30 H.P. 4-cylinder gas engine
- 1 Waukesha 4-oylinder 8 H.P. gas engine
- 1 I. R. air tugger hoist
- 1 I. R. Imperial #10, 2-cylinder horigontal compressor and 1-cylinder "Charter" fuel oil engine
- 5 Jackhammers, 3 stopers, drill steel tools, et.

-2-

The Peerless Pump (\$1400.00) and \$550.00 worth of pipe and tools were purchased with loan funds. In addition the shaft was dewatered and the mine cleaned out with the balance of the \$5,000 loan already granted.

### 9. ORE RESERVES

According to the Bureau of Mines and my estimation the mine contains 6,630 tons of partially blocked out one that will average 3% copper and 0.044 cunces of gold. It is safe to say that in addition the mine also contains 3,000 tons of probable one of the same grade which will probably be found laterally along the margins of the main one shoot to the north and south.

The applicant intends to ship to the Clarkdele smelter and he states that he has been granted an additional copper premium of 3.9¢ per pound. Based on these figures, the value of the ore can be calculated as follows:-

### Smelter Value of Ore (Clarkdale Smelter, Phelps Dodge)

3% copper	= 60	1bs 191bs.	= 50  1bs.	z \$0.09275	4.64

Total amelter value of ore..... 6.00 per ton

### Promium Payments on Ore

	60 60	lbs lbs	• X	97% 97%	XX	\$0.05 \$0.089	per per	lb. lb.	(lst (2nd	premium) premium)	********	2.91 5.18
					T	stal p	reniv	una va	aluo (	of ore	********	\$8.09
tal	val	uo	of	ore	• • •				*****	*******	******	14.09

### Marketing Charges

Tot

Base Smelter Rate (minimum) ..... \$2.75 Rail freight (Mayer-Clarkdele).. 1.03 Trucking 9 miles Mine to Mayer.. 1.03

Total	marketing charges	4.81
	of ore at collar of mine shaft	
Estimated	mining cost per ton (2ft.wide vein)	6.00
	net profit per ton	3.28
	profit on 6,630 tons \$21,746.40	

The ore can be selectively mined; the grade increased and the tonnage decreased this increasing the net profit per ton. However, this would defeat the purpose of the premium as it would decrease the total poundage of copper produced. The walls of the vein stand well and the ore is not too hard so mining costs should not be excessive. The chief disadvantage in handling this ore is the narrow width of the vein and it may be necessary to carry a stope wider than the width of the vein. The production rate should be 20 tons per day and 6 men on one shift per day should be sufficient.

### 10. PROPOSED EXPENDITURES

I have had no opportunity to discuss the proposed expenditures in datail with the applicant although we have reached an agreement in principle. I consider the following expenditures necessary as it will take 30 days before smelter settlements are paid:-

> Repayment of first loan ..... 5,000.00 30 days labor, 6 men @ \$7.00 per day 1,260.00 each stoping Insurance deposit ..... 500.00 Payroll taxes, compensation insurance, 200.00 etc. Advance on freight 20 tons/day x 30 days 600.00 x \$1/ton Advance on hauling 20 tons/day x 30 days 600.00 x \$1/ton Operating supplies for 30 days (powder, 1500.00 fuel, etc) Stops preparation (installation of 1000.00 ohutes, timber, etc.) New development work Drift south 30 ft. on 110' level @ \$17/ft 510.00 Drift north on 110' level 50 ft 850.00 0 \$17/ft Drift north on 250' level 50 ft 850.00 @ \$17/ft

Reserver for contingencies ...... 2130.00

Total for loansessesses 15,000.00

It is entirely possible that this property in the hands of an experienced operator could be placed on production for less than \$10,000, but since mining costs are rising and there is always a certain amount of expensive delays in getting a property started, I consider \$10,000 will be necessary.

I believe that one of the conditions of the loan should be that the applicant must start stoping the ore first and after he is on a permanent shipping basis, the drifting on the various levels as outlined above should be done. Furthermore, I do not believe that any exploration work should be allowed on the 350 or 460-foot levels as this would be prospecting, and I do not believe that the applicant should spend any further money on equipment or surface improvements.

-4-

# 11. COMMENTS OF SUPERVISING ENGINEER

20

I believe that a loan as outlined is warranted for this project provided that silicious ore is still needed at the Clarkdale Smelter and copper for War Effort.

-6-

1

This is a marginal property containing a limited tonnage of ore. Without the additional bonus of 8.9¢ per pound for copper, the ore will not pay to ship.

The property during the last two years has produced 309 tons of sorted ore that averaged 5.38% copper and 0.048 oz. gold. In the future the mine should produce 5,630 tons of ore averaging 3% copper and 0.044 counces of gold.

Since this mine is now fully equipped and ready to start producing and is now employing two of the 6 men necessary to operate the project, I believe a loan is justified due to the increased price of copper slready granted.

> MM. B. MAITLAND Supervising Engineer.

the state

2,10 .106 05 19.8470 11.2 222,29 250 2.07 045 45.9165 6.83 313,61 046 1,98 5,12 43.0685 220,51 045 2.63 58,4570 5.72 334, 27 1.02 035 29.2475 4.04 -118.60. 045 1.91 42,5125 364-154,751 045 -1.76 39,2145 4.54 178,03 .04 1.20 30,625. 3,88 118.83 048 308,89 1660.99 5.38 309 tono

Prine Paris June 11, 1943 Sample No / B - 2' min gut from stope 250' Level. Sample No 2B - 3' vein in face on 109 lud assence +qty Sample No 3B - 3' vin in back at s'o' from sheft on 1091 level at Peny sample tenna Water in shaft between 350 + 450 level no are repeated on 350 or 450 level 0 Egonijo, fueloit denner houst / aylinde 612 V& Duy druch 2 large pressure tak 1 Jack pump 1 Pierless the hift day well tenfine No 25216 2 tram cars 4'down S & How and the 1 Partable conjunsor Rig P15 1 Erd 30 Hp 4 day gos engen 1 thankesha 4 als gas engre 22 and 22 1 RA anhesha yayl gas engine 8 HP 1-IR shop #10 2 angle Hor Comp + Charter 1 aghush fuel at langue

325 Heard Building Phoenix, Arizona July 24, 1943

Mr. Pierre Perry P. C. Box 182 Mayer, Arizona

Re: Docket No. C-ND-8201

MJFile

(80213)

Dear Mr. Perry:

WBM-b

Received your letter of July 17th. I intend to be in the office for the next six or seven days and I hope by that time you will have definite word on your new premium price for copper and that as soon as you hear we can submit your application directly to Washingtor. On a marginal mine such as yours, I believe it advisable to obtain a premium price before making application for additional loan funds.

Sincerely yours,

WILLIAM B. MAITLAND Supervising Engineer 325 Heard Building Phoenix, Arizona

### Tully - Aset. Chief Mining Division - RFC - July 24, 1943.

Re: Mountain Copper Corporation Docket No. C ND-8021

MyFile

Some time see this project was granted \$5,000 accessibility loan, and the applicant has made the underground workings accessible with this money. I examined the property on June 11th in order to report on the progress being made. Shortly thereafter the applicant corporation applied for additional funds with which to mine the copper ore they have exposed.

The applicant wishes to hold temporarily in abeyance his application for additional funds and as a consequence my report on the property until he has received final word on an additional premium for copper which he applied for some time ago and which the War Production Board assured him he would have.

The Bureau of Mines also sampled and mapped the mine and I now have available this report, which will be included with my progress report, which will be mailed to you as soon as applicant has obtained definite information on an additional premium for copper.

> WE. B. MAITLAND Supervising Engineer

WEM-b

Se. 1 - a Progress Report Monntan Copper Co NO 8021 Date of Noit Feb 21, 1944 Pate of Rynt Feb 25, 1444 On Feb 21, 1944 I monted the above project moder to mapert the progress keining mark . at the time of my not the men were writing underground, the applicant, mr. Perry was sarring The host and another man mass making on The surface. applicant has constructed a very substantial so to one bin at the collars of the shaft. He imformed me that it cost him a little one \$1900. I believe it is too large and expensive for the size of the mine. The only other more done on the projecty has been underground more and all more to date was done on the 250 foot luck. Referring to the maps accompanying my original report a raise has been started to connect the 250' and The 110' levels. The ordered by the more maperton. This two compartment ranse was started 35 south of sample No 911 (taken at the face) applicant informed me that The raise was 90 feet high and headed for the bottom of the s'wings on the level above but I could not confirm this as the rane was partly blocked mean The lop. The rane was more for most of The way altho it should have reached the bottom of the manye at a height

28 of 70 feet. a second same also partly flocked mth one was started at Sample No 904 and is reported to be 70 feit high and in ore a third rance started below Sample 16 905 is 35' high and in one and from the type of This raise there is a connection over to The To'raise. I tried to discuss with the apphent the advisability of stoping the se properly. also before the loan was granted I explained to the applicant he should done a series of ranses above the 250' level and connect these rouses logether about 15'abre the duft back. Since the very is narrower than stopeable I suggested that a filled stope be used morder to get ind of the waste oftamed from heaking one wall of the very apparently however the applicant is not competent to properly carry out a definite stope systems altho he appears to be morking very hard and to be somere m his endlavors, I believe he lets his Two Mexicon miners mine the ore as they please. He reports that he has already shapped 5 cars of one from the lanses and has about 10 tons of broken one to ship. Under his new loan we have returns deposted for three cars of one as follows :

 $(\mathcal{P})$ 

59.7 8.99 Sotal Per ton Premines Receipto net value due or Receipto net value pard. St Railroad net constitues returns (leas smelting and R.R. freight als) 10 oz Gold per tom Recend at smither Any tons Copper 47. 694 366.54 500.99 1 Jan 6, 1944 0.07 134.45 10.50 2,85 40,640 2 Feb. 4, 1944 4.86 0.05 1.74 190.71 195.57 4.81 3 Jub 10, 1944 1.42 - 48.74 46.842 0.035 179.31 130,57 2.79 135.176 Intal 736.56 827.13 6.12 90.57 From the above it is obrunous that the ore to for shipped contained waste delution and would not pay trucking and mining costs off the \$10,000 loan recently granted these remained on Fick 21 a balance of \$1597.57 which I believe will be sufficient only for another months operation. It is extremely doubtful if this operation will be successful due to the app and this will be dreated to the applicants lack of ming legenene WmBmartins

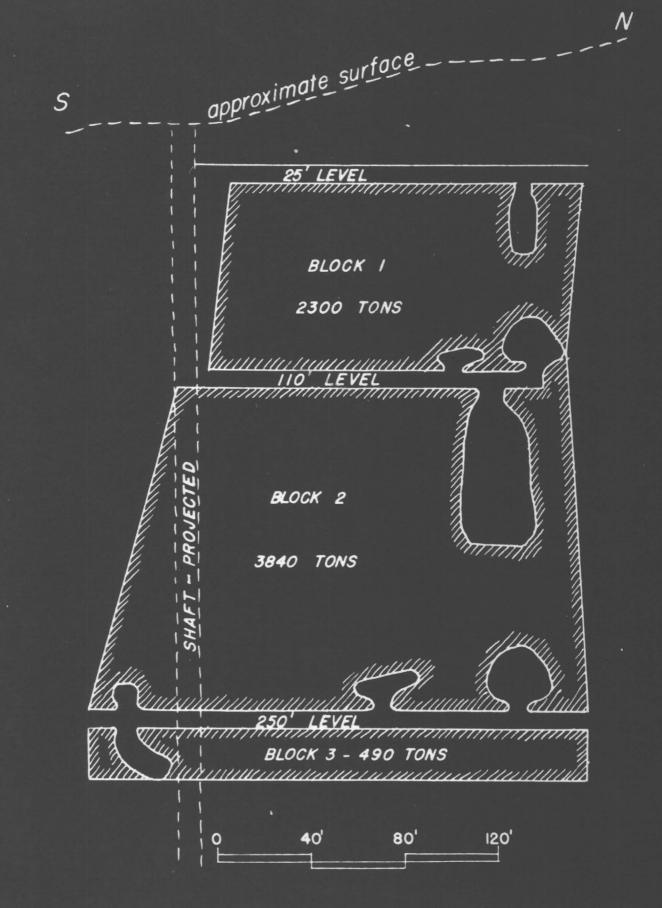


FIG. 2 - SECTION IN PLANE OF VEIN, SHOWING ORE TONNAGE BLOCKS

	-9				
D.O. Hole		925		9104	
	## 30	Winze 30' Deep 922 Stope 15 High 925 925	65'Deep	1909 908 EVEL 907	00 400 0 00 400 F
sample numberWidthLocation9040.7'North end stope9051.0South end stope9061.2Foot wall9071.3Hanging wall9081.3Foot wall9091.6North end stope9101.0Foot wall9112.8Face9121.2Foot wall	Character Dercent Copper schist & quartz 5.67 silicified schist 4.49 "" 7.16 " " 5.45 " " 3.03 " " 9.04 schist & quartz 1.40 silicified schist 0.50 oxidized schist 2.10	924	Stope 25'High 906-00 919 919 910 D. Hole 919 910 D. Hole 919 906-00 919 906-00 919 906-00 919 906-00 900-00 906-00 906-00 900000000	e e Hole stillevel	
9/3       0.4       "."         9/4       0.8       Back         9/5       2.3       "         9/6       2.6       Face         9/7       2.9       Back         9/8       2.3       "         9/9       3.5       "         920       2.8       "         921       3.6       "         922       2.5       Slope         923       1.0       Face         924       1.5       Back         925       3.6       "	" " " " " " " " " " " " " " " " " " "	FOOT LEVEL	917 6 tout 657 67 913 917 6 tout 657 64 12 918 0.0 Shoft 7914 914	Hole	
926 2.4 Face COMPOSITE SAMP		12		nze ' Deep	
Numbers         Average Width         Percent Copper           904-916         1.4'         3.10           917-923         2.6         3.62           924-926         2.5         1.16	Ounces         Ounces           Gold         Silver           .045         .50           .040         .20           .050         .15		open cut	0 5 10 20 40 	60 80

FIG. I - ASSAY MAP AND PLAN OF THE MOUNTAIN COPPER MINE, YAVAPAI COUNTY, ARIZONA

W. M. R.

## July 1943

#### WAR MINERALS REPORT \*

Report of the Bureau of Mines to Secretary of the Interior, Harold L. Ickes

MOUNTAIN COPPER MINE Agua Fria Mining District Yavapai County, Arizona

- Copper -

#### Summary

The Mountain Copper Mine, situated 5-1/2 miles east of Mayer, Arizona, adjoins the Stoddard Mine on the northwest and is apparently a southerly extension of the same mineralization in the Yavapai schist.

The Stoddard has a creditable record of copper production and the proximity of the two on the strike of the same schist and less than one-half mile apart, probably stimulated the somewhat extensive and rather fruitless exploration at the Mountain Copper.

The main shaft is 470' deep, with five levels and over 1,000' of drifting and crosscutting, as shown on the map (figure 1) which accompanies this report. The best values in copper are on the 110' level. Seven samples taken by the Bureau of Mines averaged 3.62% copper with an average width of 2.6'. Seven shipments of sorted ore from this level totaling 265.7 tons averaged 5.64% copper. These shipments were made in 1942 by the present owners.

\* The War Minerals Reports of the Bureau of Mines are issued by the United States Department of the Interior to give official expression to the conclusions reached on various investigations relating to domestic minerals. These reports are based upon data made available to the Department from other sources. The primary purpose of these reports is to provide essential information to the war agencies of the United States Government and to assist owners and operators of mining properties in the production of minerals vital to the prosecution of the war. The workings below the 110' level have only recently been unwatered with an R.F.C. loan and the mine has been surveyed and sampled by Bureau of Mines engineers.

On the 250' level, 13 sample's spaced 20' apart averaged 3.10% copper. The average width on this level was only 1.4'. There is no record of the shipments that were made from two stopes on this level.

There is no ore showing on the 350' or 460' levels. However, there are several places where some exploration would be justified if the vein showed better width and value.

The total "Indicated Ore" from the 25' level to the 250' level is calculated to be 6,600 tons, averaging 3.0% copper. The "Inferred Ore" is estimated to be one-half that of the "Indicated Ore," a possible total of 10,000 tons. If this were all measured ore of 3% copper, the development would not justify a mill.

The ore can be mined and hand sorted, as were the seven shipments from the 110' level, to raise the value to about 5% copper, but this makes slow and expensive mining, with only a small daily output likely.

The disappointingly low values in copper from the 23 samples taken coupled with the narrow width of the vein on the 250' level and small tonnage of indicated and inferred ore, do not justify further exploration by the Bureau of Mines.

There is a possibility of developing ore immediately to the north on the main vein and also of finding the vein by a crosscut east of the fault on the 350' and 460' levels. However, the probability

- 2 -

of developing enough low grade ore to justify a mill seems too remote to warrant recommending that this exploration be undertaken.

There is undoubtedly several thousand tons of ore in pockets or shoots along the vein which with the 5¢ bonus can be mined, by hand-sorting and shipped to the Clarkdale smelter, at a profit. The mine is sufficiently well equipped to handle a small tonnage, and the management seems to be competent and anxious to get out a little copper for the war emergency.

#### Introduction

The Mountain Copper Mine was brought to the attention of the Bureau of Mines by one of the owners. It was visited by a Bureau engineer on February 17 and 18, 1943, and was surveyed, sampled, mapped and examined by two Bureau engineers\*, after the mine was unwatered, from May 5 to May 18, 1943. Mr. Pierre Perry, President of the Corporation, furnished the Bureau engineers with maps, reports and smelter returns.

## Location and Accessibility

The property is located in the Agua Fria mining district, Yavapai County, Arizona, T.12 N., R.2 E., G. & S.R.B. & M. By road it is 5-1/2 miles east of Mayer, Arizona. The road to the mine turns right from the county road at the top of a hill, one mile east of Mayer, thence 4-1/2 miles over a fairly good mine road to the property.

Mayer is on highway 69 and is the terminus of a branch line of the A.T. & S.F. Railroad. A major transmission line of the Arizona Power Corporation passes within 1-1/2 miles of the mine. <u>Ownership</u>

The property consisting of one patented and 14 unpatented lode \* Harlow D. Phelps and R.M.Grantham, mining engineers

- 3 -

claims, is owned by the Mountain Copper Corporation. Mr. Pierre ' Perry, President, of Mayer, Arizona, is the owner of 51% of the capital stock.

#### History

The mine was owned and operated by the Arizona Redlands Copper Company from 1923 to 1929. Practically all the present development was done at that time. Co-incident with the depression and drop in the copper market, the property closed down.

In 1937, John W. Burke of Clarkdale and M. Robert Herzog of Ajo, Arizona, formed a partnership and relocated the claims. They shipped six cars of sorted ore from the 110' level which averaged about 14% copper, but did not unwater the mine below that level. Mr. Herzog died and the property was idle until 1942 when Mr. Perry acquired control and organized the present corporation.

## Production

There is no record of any production by the Arizona Redlands Copper Company, who did most of the exploration work.

According to a former report on the property, Burke and Herzog shipped 6 cars of sorted ore totaling 239 tons from above the 110' level. This ore averaged about 14% copper and netted \$3,829.44 at the smelter.

In 1942 the present owners shipped seven cars or 265.68 tons of sorted ore which averaged 5.64% copper. This ore was mined from the 110' level and mostly from one stope near the end of the drift.

The smelter assay returns on these sevel lots of ore were as follows:

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Date	Dry tons	Oz.per Au	ton Ag	% Insol.	% S102	% Al	% Fe	% Cu	Tons x % Cu
10-1-42	45.92	.037	.35	60.4	56.2	7.1	11.2	6.74	309.5
11-10-42	58.46	.045	.35	65.0	59.8	6.4	9.3	5.72	334.0
11-28-42	43.06	.046	.37				i sala	5.12	220.5
12-21-42	29.24	.035	.55					4.04	118.2
1-16-43	29.20	.04	.16		61.0	7.0	8.8	3.88	113.2
	39.94				61.0	7.6	9.8	4.54	181.2
2-6-43	19.85	.106	.30	42.9	40.6	5.1	15.2	11.20	222.3

Total 265.68

1499.5

# Average = 1499.5 - 265.68 = 5.64% copper

There is no present production from the mine. However, the management expects to start mining operations as soon as reconditioning of machinery is completed.

The prospective production is very indefinite. However, there are undoubtedly several thousand tons of ore on the 110' and 250' levels from which ore of shipping grade can be hand-sorted. The possibilities for production that might result from further exploration are discussed under "Development."

## Physical Features

The topography is fairly rugged and mountainous and the elevation about 4,200<sup>\*</sup>. The climate is mild, with seldom any extremely hot or cold weather throughout the year. There is little vegetation other than a scattered growth of cedar trees and catclaw bushes.

The mine makes about 20,000 gallons of water per 24 hours. Some of this water is used for domestic purposes. There is also a spring about 1/4 mile away from which water could be piped to the camp. An additional supply, if needed could be pumped from the Agua Fria River, a distance of about 1/2 mile with a lift of about 400'.

The mine equipment is as follows: An Ingersoll-Rand twostage compressor of 350 cu.ft. capacity, direct connected to a 70 h.p. single cylinder gas engine; a hoist and 1,000' of 3/4" cable direct

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connected to a Western, heavy duty, single cylinder 35 h.p. gas engine; a Peerless impeller type pump of about 60-gallons-per-minute capacity.

The mine is fairly well equipped for operating on a small scale. The buildings consist of an engine and hoist house, blacksmith shop and change room and four camp buildings, with accommodations for possibly a dozen men.

# Geology and Ore Occurrence

The prevailing country rock is the broad, irregular area of Yavapai schist, which extends in a northwesterly direction from the Blue Bell mine to Jerome.

The rock on the claims of the Mountain Copper Corporation consists of a light-colored sericite schist, a dark blue chloritic schist, a hard compact phyllite and a quartz porphyry schist, with many outcroppings of white quartz. There are some igneous intrusions within the schist.

The ore occurs as copper carbonates and sulfides in lanses within the schist and along fractures and faults, but generally following the lines of schistosity.

The gangue material is largely quartz and schist. On the surface there is rather an extensive area showing small veins following the schistosity and in the fissures, fractures and faults.

The strike of the main vein varies from N.20°W. to N.10°E. and the dip from 65° east to 80° east.

## Development

The main shaft is 470' deep. The drifts, crosscuts, diamond drill holes, stopes, winzes and principal faults are shown on the map

- 6 -

(figure 1), which accompanies this report.

Most of the work which has been done is in the nature of exploration rather than development. However, the vein is exposed on the 25' level for a length of about 180' and average width of 2.5'; on the 110' level for a length of about 160' and average width of 2.6'; on the 250' level for a length of 210' and average width of 1.4'.

There is one at the north faces on the 25-, 110-, and 250' levels and further exploration work could be done on the vein, immediately north on the 100' and 250' levels, but there is very little surface showing of one north of the present workings until reaching the Stoddard property.

At the south face on the 250' level the vein is 2.6' wide, but on the surface there is a sharp gulch about 100' south of the shaft with very little surface indication of ore south of this gulch.

There is no ore on either the 350' or 460' levels and it is possible that the fault encountered on the 460' level, striking N.45°E. and dipping 70° west may have faulted the main vein on both the 350and 460' levels. A short easterly crosscut might therefore be driven at the end of the present drifts on both the 350- and 460-foot levels. Also the vein might be encountered by a crosscut following a diamond drill hole which is located east of the shaft on the 460' level. The log of this drill hole indicates 15' of ore, 5' of which is "good ore" at 68 to 83' east along this hole.

The crosscut which was driven northwesterly on the 460' level a distance of 280' and which appears to have followed an old drill hole,

- 7 .

apparently encountered no parallel vein west of the main vein.

There is reported to be 840' of diamond drilling on the 350' level and 1,200' on the 460' level.

The results of this drilling are given in a report by A. R. Bowen and also shown on an old map by the corporation. The report states that the records kept of the drilling on the 350' level were unsatisfactory. In fact, the logs of the holes on both levels, as shown on the map, are open to question and it is doubtful whether any of it can be relied on.

The northwesterly crosscut on the 460' level, previously referred to, apparently encountered no parallel veins west of the main vein, but the log of this hole, as shown on the old corporation map, indicates six eveins within the 280' length, varying in width from 2 to 19' and giving copper values from 0.82% to 1.51%. The map bears no signature or name of the party who prepared it.

On the surface there are a number of small shafts, cuts and adits north and east of the main shaft. The veins, where found, were small and no samples taken.

There is a shaft over 100' deep and about 1,000' northwesterly from the main shaft which is partly filled with water. The shaft is apparently located too far to the west to be on the main vein.

## Ore Reserve

The ore partly blocked out, as shown on the map (figure 2) accompanying this report, totals 6,630 tons of "Indicated Ore" averaging 3.0% copper.

There is a possibility of developing ore immediately north on the main vein, as the vein shows a width of 2.4', 1.0' and 2.8' on the 25-, 110-, and 250' levels, respectively.

8

There is also the possibility of finding on the 350- and 460-foot levels the faulted segment of the vein that appears to have been cut off by the northwesterly dipping fault encountered on the 460' level.

It is, therefore, safe to assume that there is at least one-half as much additional ore, or 3,300 tons of "Inferred Ore." Living Conditions and Labor

# The bunkhouse at the property might be arranged to accommodate possibly a dozen men and other facilities are adequate for a crew that size. There are usually a few miners in and about Mayer and Prescott. Operating Costs

Where hand sorting is necessary and the vein small, the cost of mining will be high, probably \$6 to \$8 a ton. Estimated costs are as follows:

Total....\$12.50 a ton Possible returns from assumed 5% copper ore are as follows: Clarkdale smelter returns on 5% copper, assuming the ore has a net of \$1.50 in gold and silver, would be as follows:

This indicates an operating profit of \$2.18 a ton. Sampling

Samples, spaced 20' apart, were cut with moil and hammer across the back, for the full width of the vein on both the 110- and 250-foot levels.

- 9 -

The ore appears to be highly oxidized and leached on the 25' level. The back was too high to reach without staging in most places. Three samples were cut on this level spaced 50' apart.

Most of the samples were hard and showed quartz with the sulphide in a gangue of altered chloritic schist.

The minerals present were largely sulphides except where otherwise stated in the following table. The number and location of each sample is shown on the map (figure 1) and figure 2 which accompany this report.

Sample No.	Length (Width)	Location	P	Assay ercent Copper	Assay x feet
904	0.7 250	ft. level, stope			
905 906	1.0	n n n back	quartz Dark schist Hard siliceous	5.67 4.49 7.16	3.97 4.49 8.59
907 908	1.3	17 17 17 17 17 17 17 17 17 17 17 17 17 1	" Schistose	5.45	7.09
909 910	1.6	" stope " back		9.04	14.46
911 912 913	2.8 1.2 0.4	" face " back	Soft oxidized	0.50 2.10 5.43	1.40 2.52 2.17
914 915	0.8 2.3	17 17 17 17 17 17	Hard siliceous Oxidized	1.25	1.00
916 Total	<u>2.6</u> 18.20	" face	Oxidized schist	0.52	<u>1.35</u> 56.38
	Average wi	dth, 18.20 : 13	= 1.4'; 56.38 =	18.2 =	
917 918	2.3	level, back	Black schistose	1.19	3.45 2.65
919	3.5	99 97 97 17 19	Hard and soft schist Hard schist &	0.72	2.52
921	3.5		quartz Hard siliceous	0.38	1.06
922 923	2.5	" stope " face	Hard quartzite Siliceous	15.41 3.45	38.53
	18.50 th, 18.50 ÷	7 = 2.6*; 66.96	÷ 18.50 = 3.62%	Copper	66.96

Sample No.	Length	Location		1	Description	Percent Copper	Assay x Feet
	(Width)						
924 925 926 Total	1.5 3.6 2.4 7.50	25 ft. level, "	back " face	Red "	Oxidized "	3.45 0.40 0.88	5.18 1.44 2.11 8.73

# 8.73 \$ 7.50 = 1.16% copper

Total average assay = 132.07= 2.99% copper 44.2

#### Conclusion

The Bureau of Mines, after an examination, survey and sampling of the Mountain Copper mine concludes that:

- (1) There is 6,600 tons of "Indicated Ore" averaging 3.00% copper
- (2) There is approximately one-half as much, or 3,300 tons of "Inferred Ore" of the same value.
- (3) It is believed that only by developing enough of this low grade ore for milling operations can the mine be successful operated to produce a substantial output of copper.
- (4) There is a possibility of developing ore immediately north on the main vein and also of finding the vein by a crosscut east of the fault on the 350- and 460-foot levels. However, the probability of developing sufficient tonnage of low grade ore to justify a mill, seems too remote for the Bureau of Mines to recommend that this exploration be undertaken.
- (5) There is, however, several thousand tons of ore in pockets or shoots along the vein on the 110-250-foot levels which, with the 5 cent bonus can be mined at a small profit by hand sorting to 5 percent grade and shipping to the Clarkdale smelter.
- (6) The mine is sufficiently well equipped to handle a small tonnage and the management seems to be competent and anxious to get out a little copper for the war emergency.

7/10/43

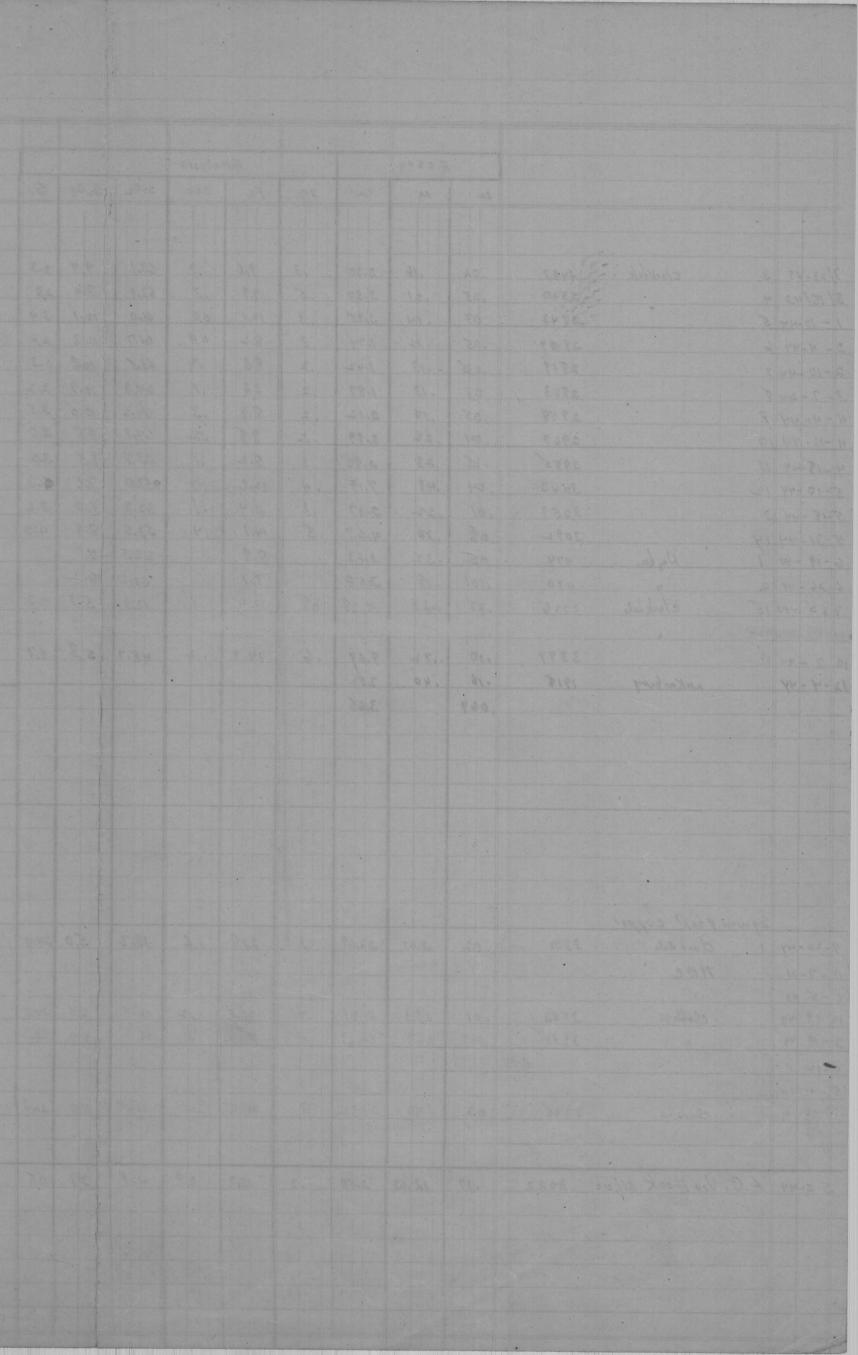
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Mountain Copper Corporation

