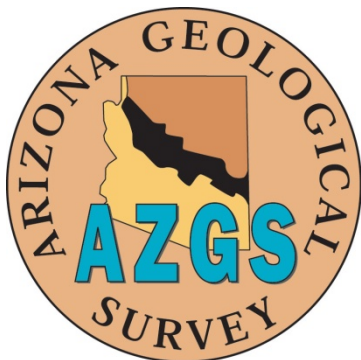




CONTACT INFORMATION

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Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

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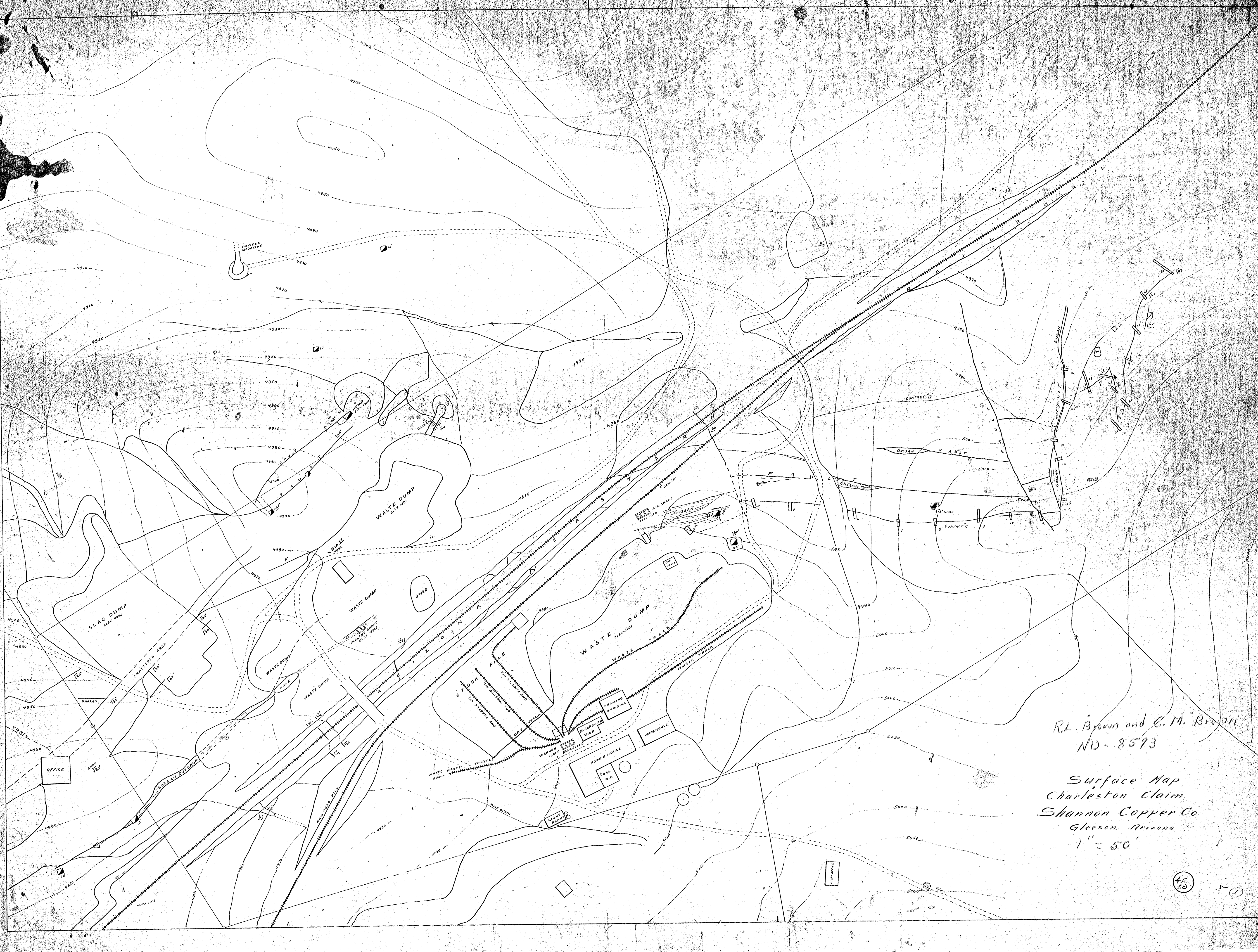
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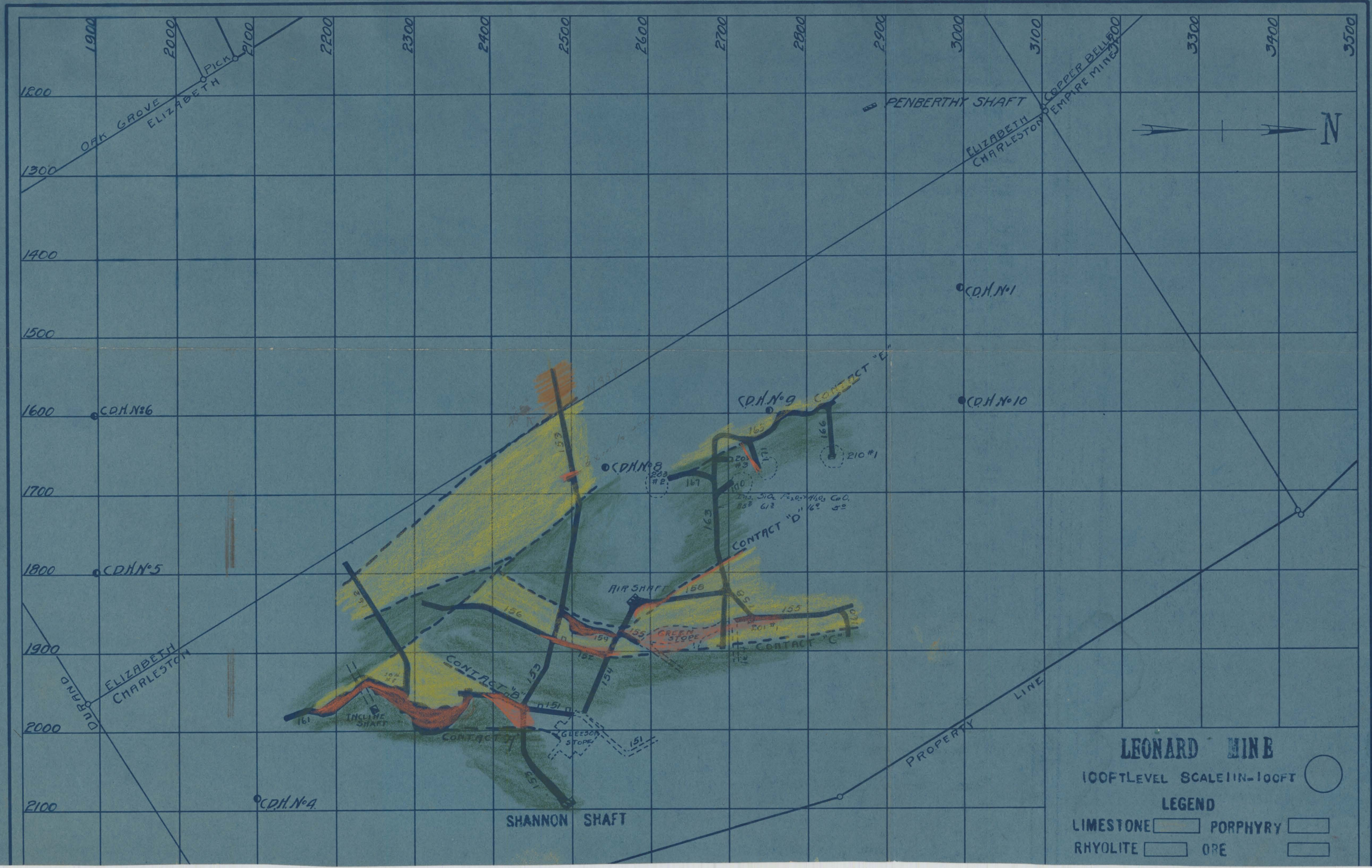


R.L. Brown and C.M. Brown
NO. 8573

Surface Map
Charleston Claim.
Shannon Copper Co.
Gleeson, Arizona.
1" = 50'

4E
48

Charleston Claim
Shannon Copper Co.



LEONARD MINE

100 FT LEVEL SCALE IN 100 FT

LEGEND

LIMESTONE		PORPHYRY	
RHYOLITE		ORE	

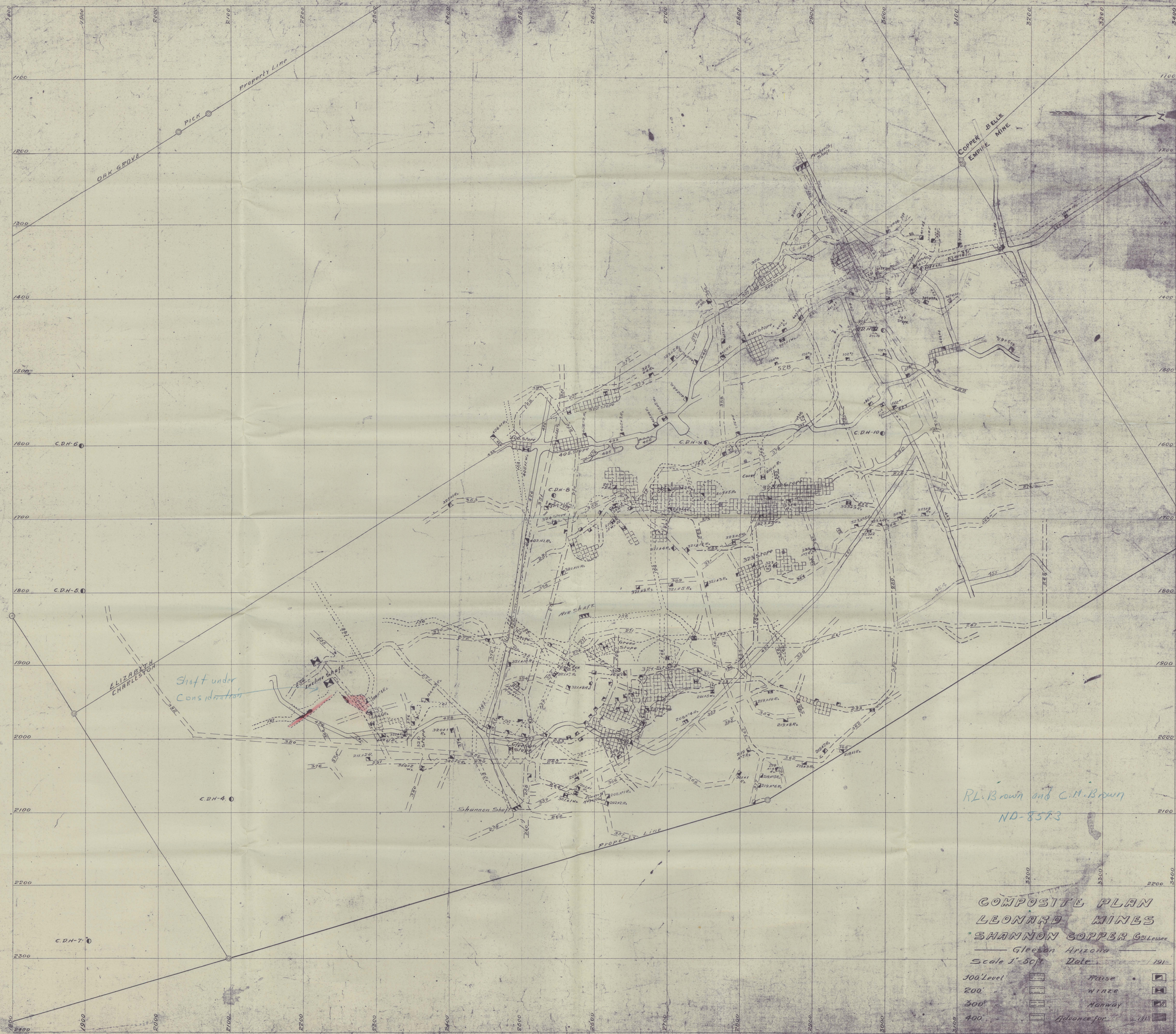
Return 1004.25

Slipper Rte

R. L. 2 Cm Brown

Shanno

2000



RL Brown and C.M. Brown
ND-8573

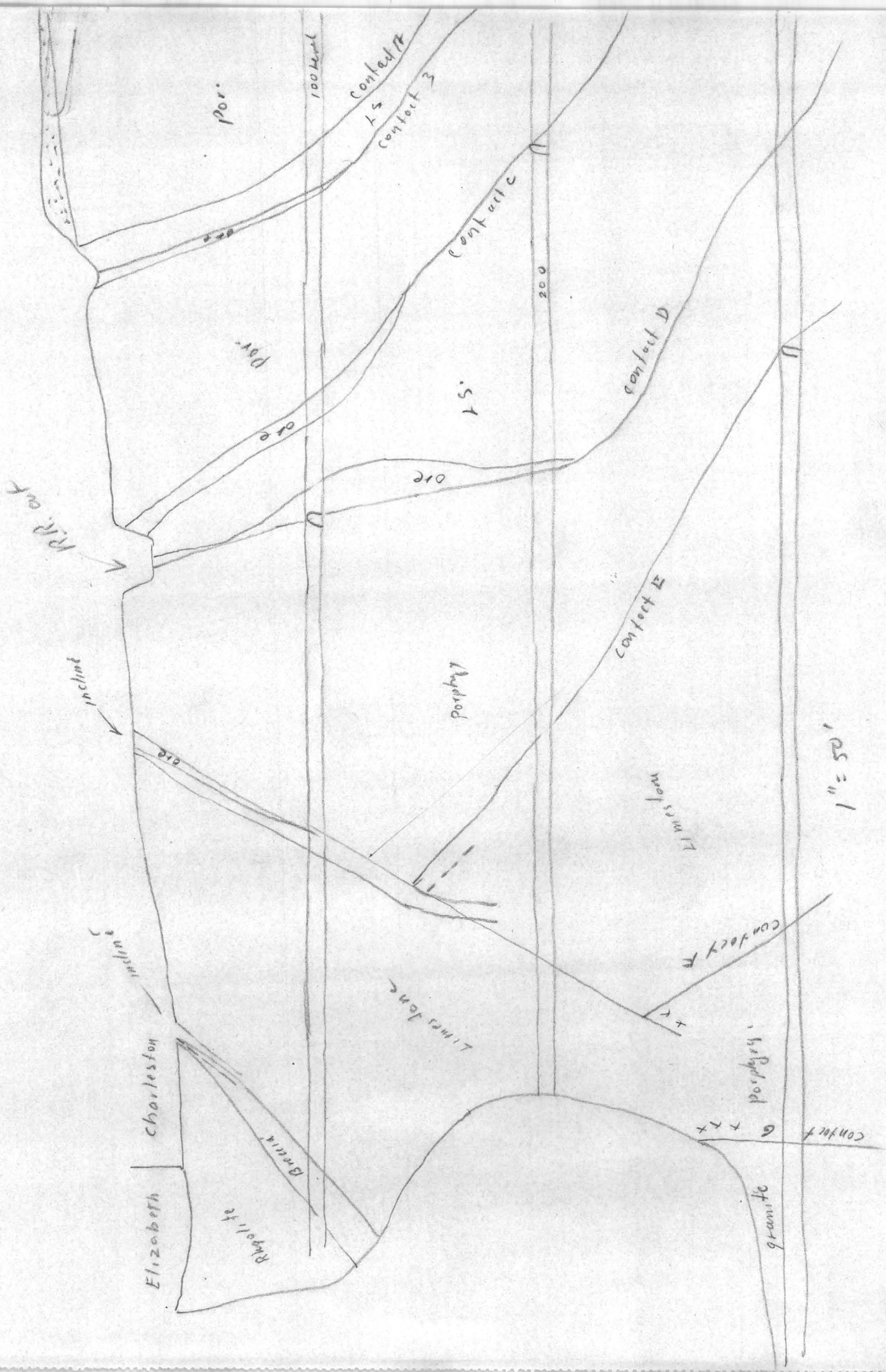
**COMPOSITE PLAN
LEONARD MINES
SHANNON COPPER CO. Lessee**
Gleeson Arizona
Scale 1"=50ft. Date 1/191

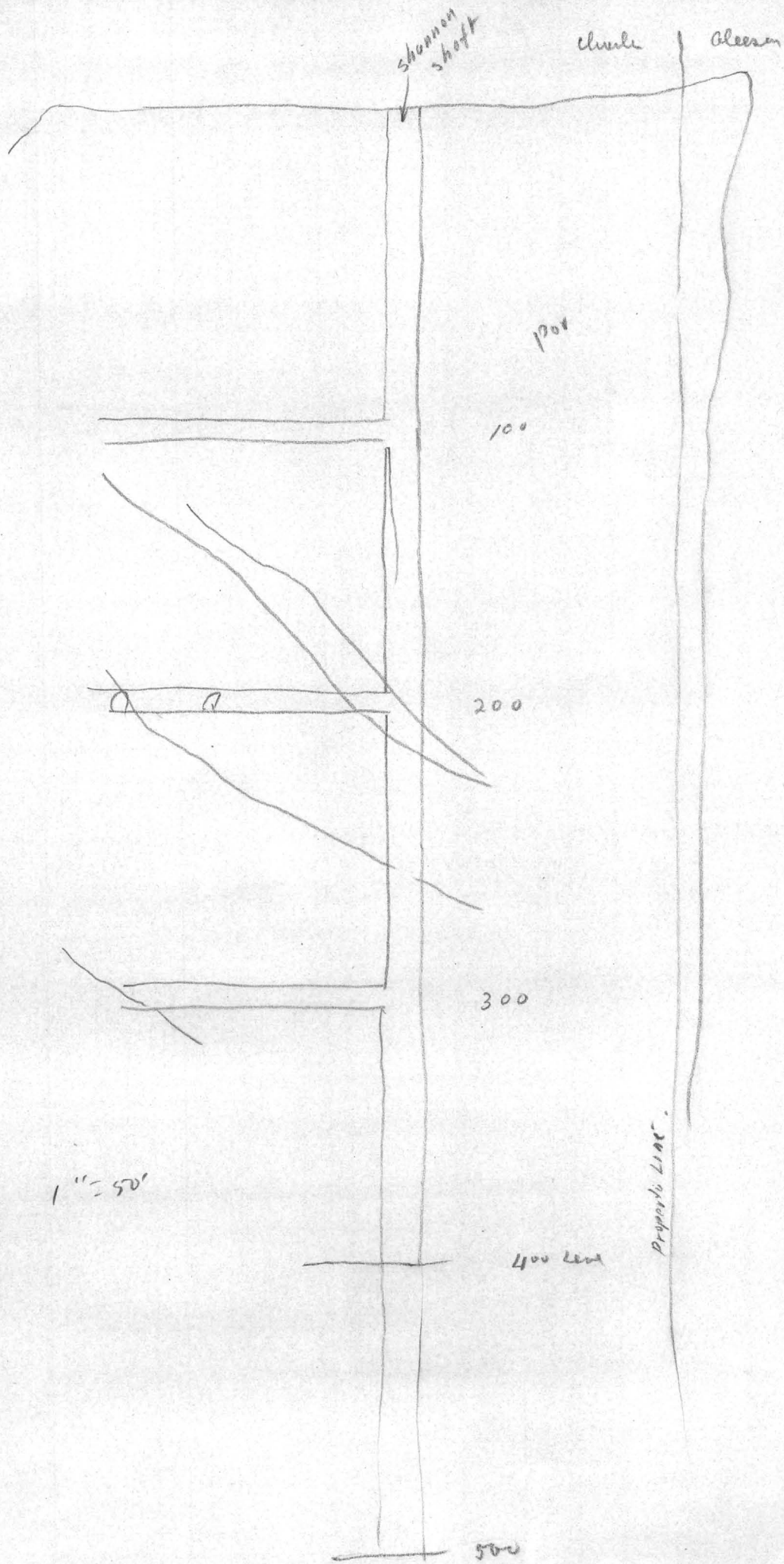
100' Level		Haize	
200' "		Winze	
300' "		Manway	
400' "		Advance for	

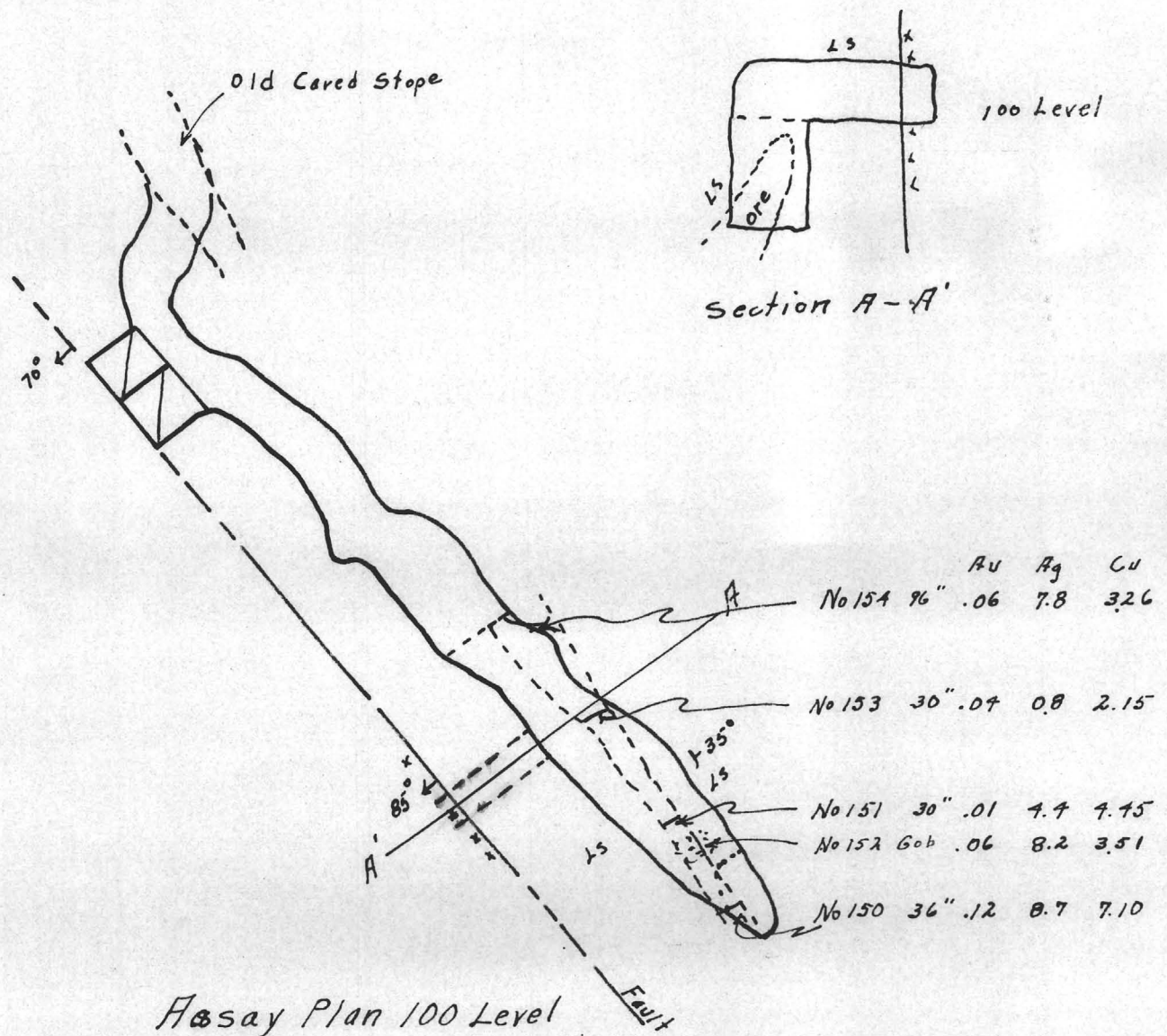
Composite Plan
Map

Shannon Copper Co.

Shannon Mine

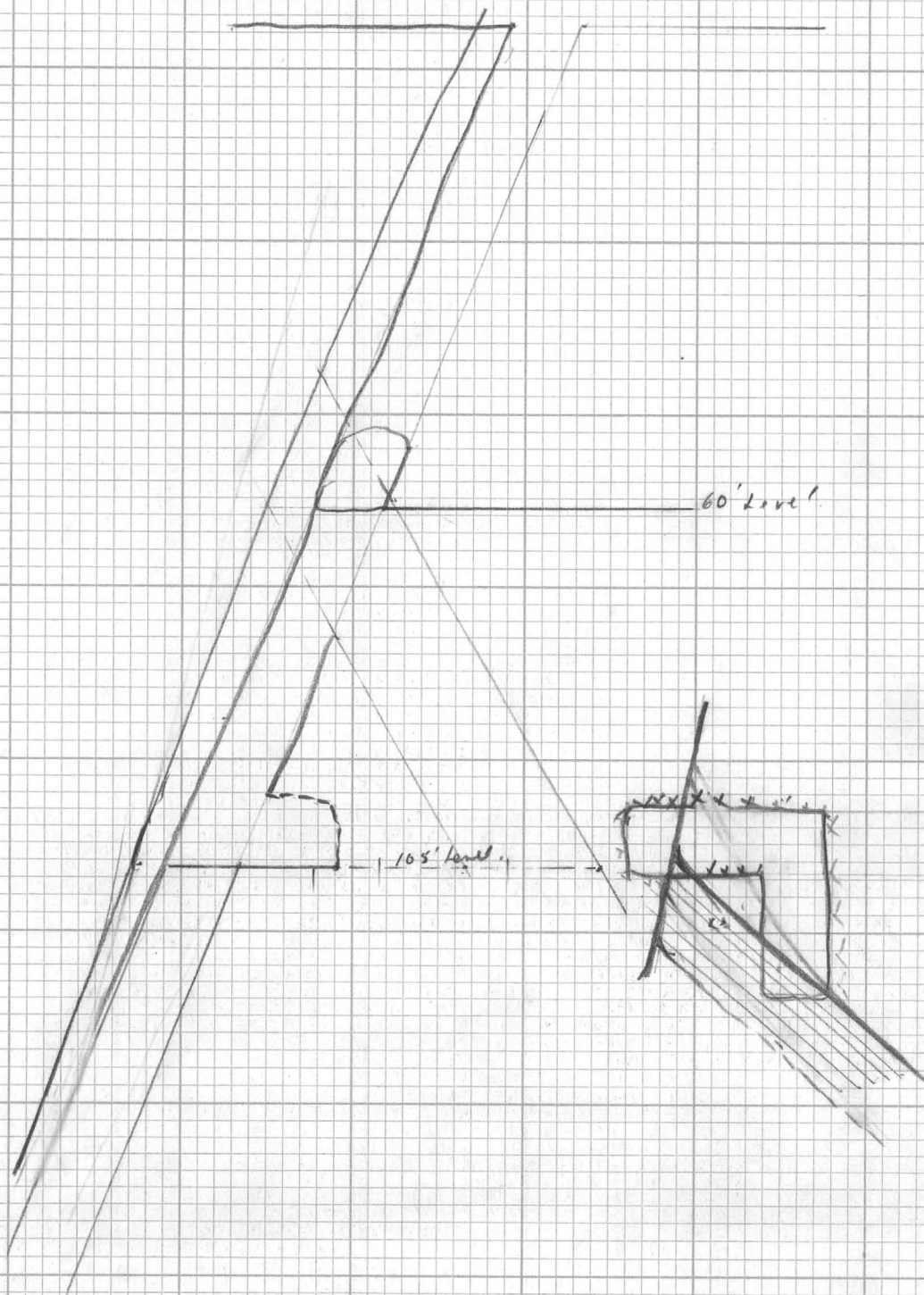




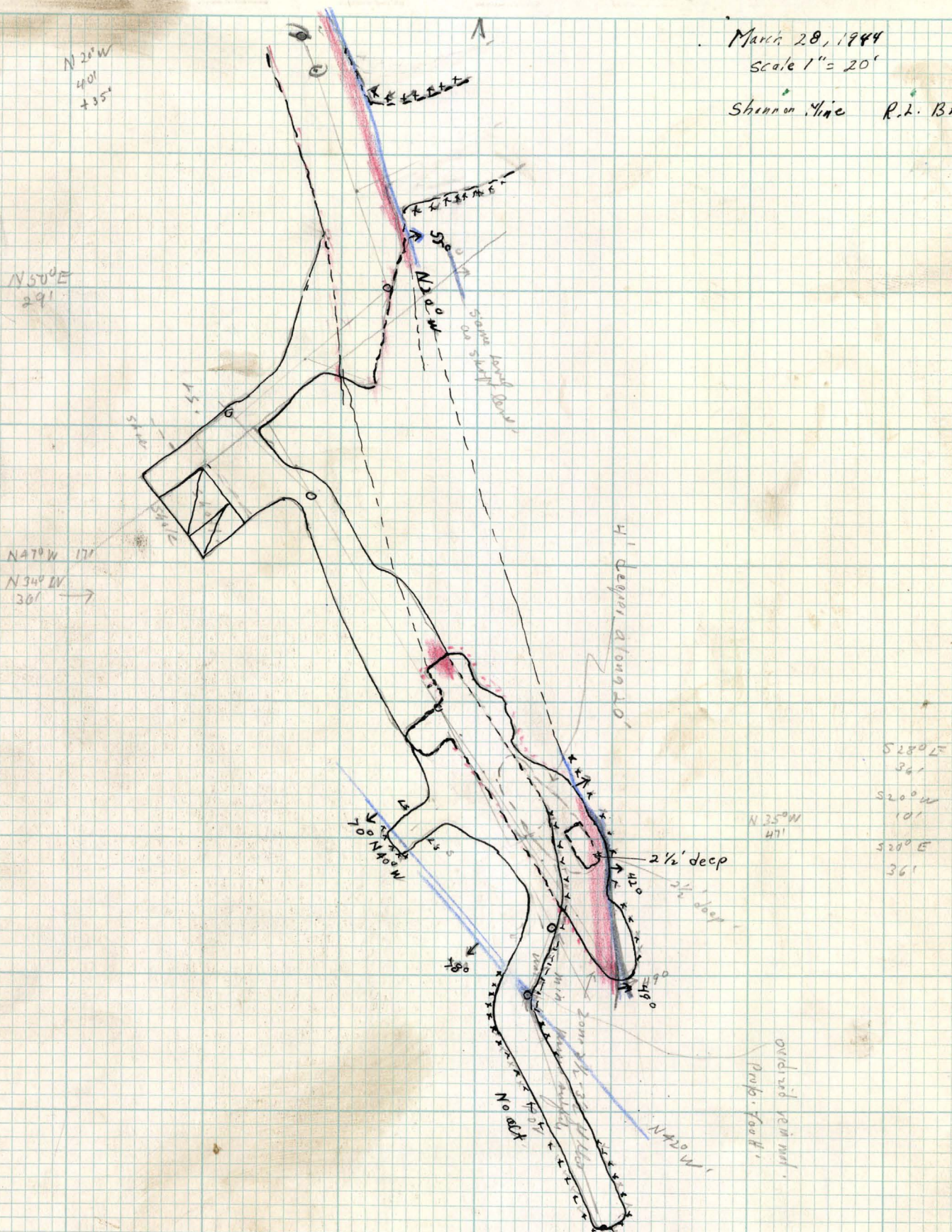


R.L. and G.M. Brown
 Docket ND-8593
 Scale 1" = 20 Dec. 7, 1943

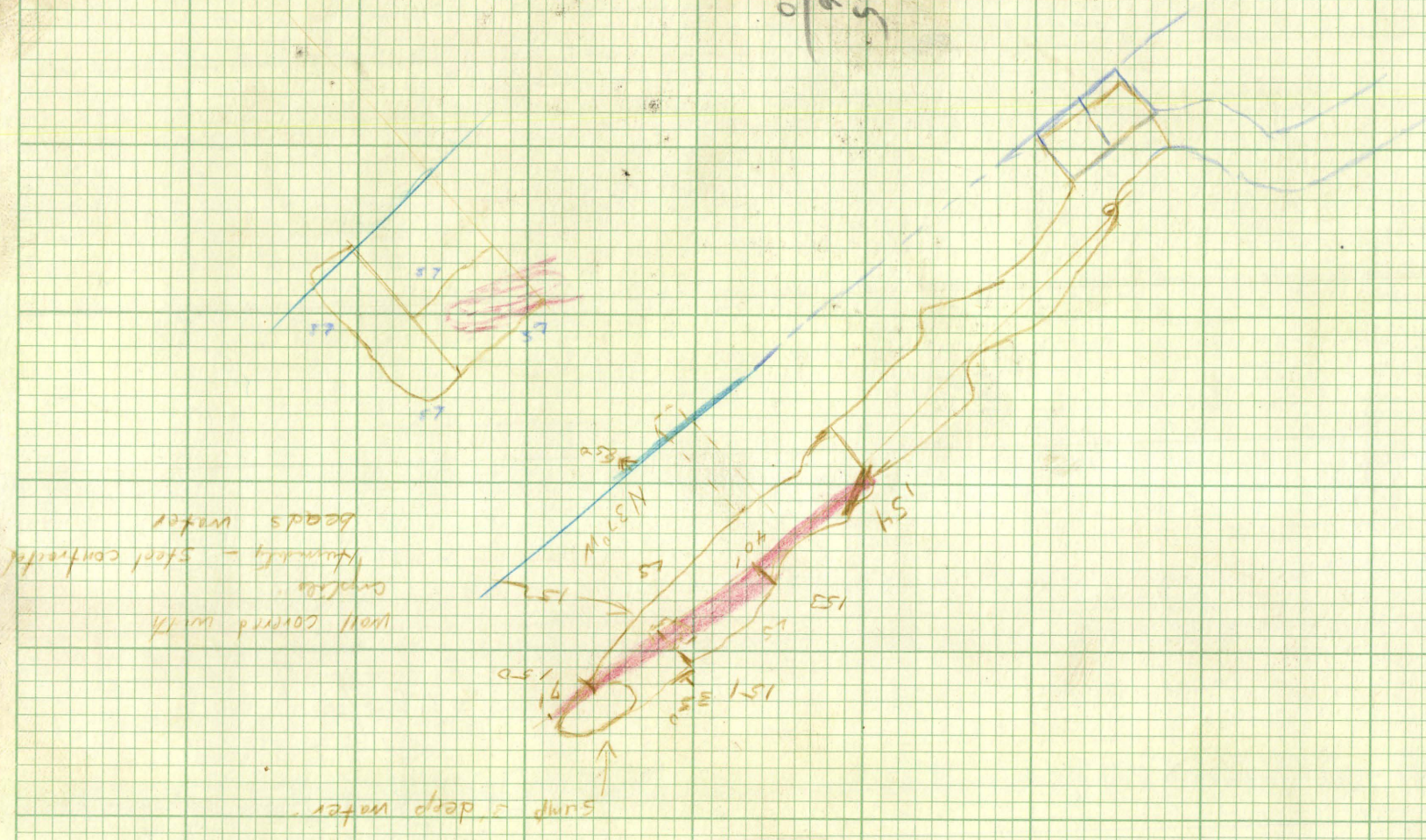
Charles A. Riser



Shannon, Mike R.L. Brown



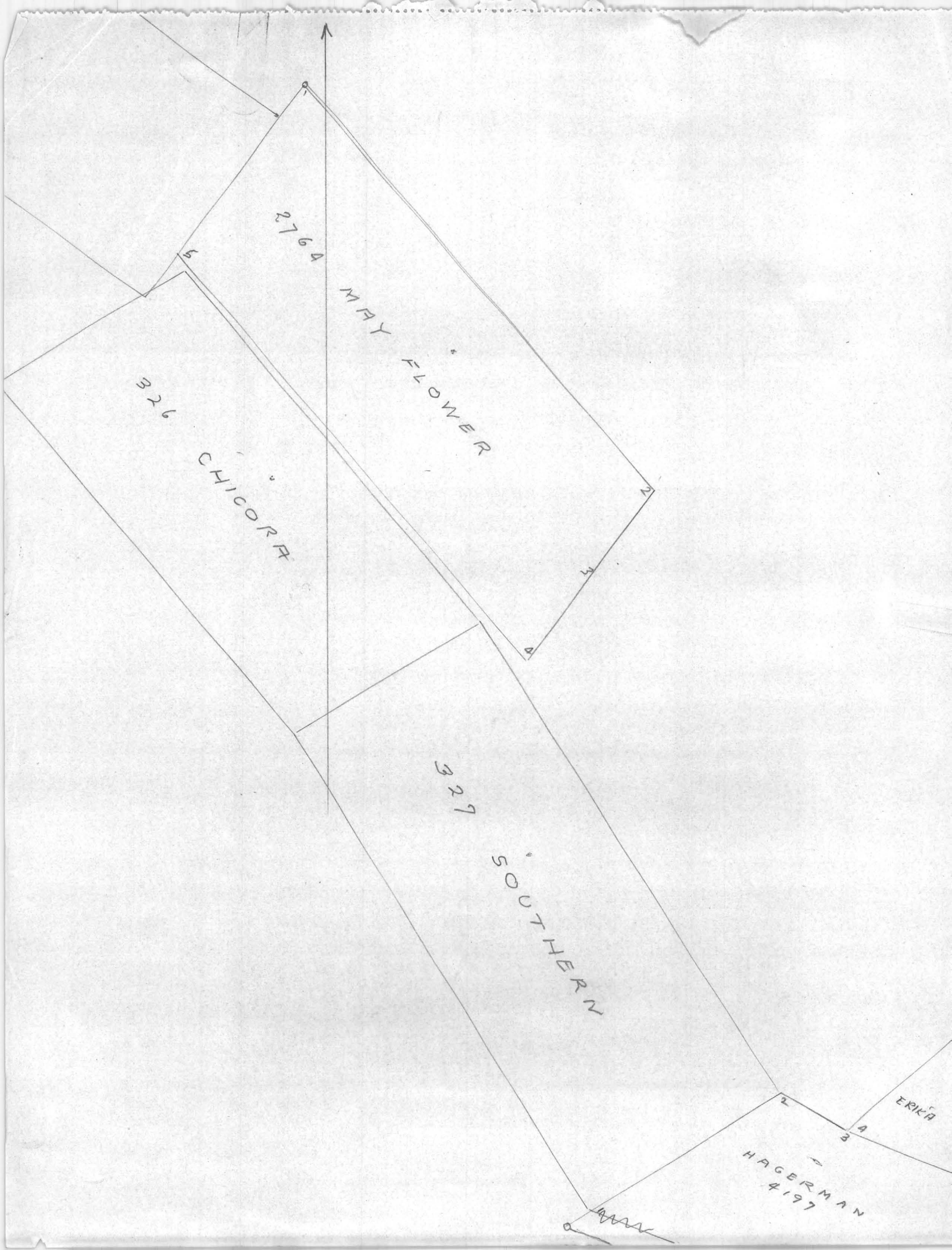
R.L. Brown
 1" = 20'
 Dec 7 1940



32.31825
 36
 19390950

Shift 60' deep in 68' incline to land
 45' deep to land in line on
 15' deep ramp

13 feet floor of floor



Josephine
UN SUR

Var. $12^{\circ}40' - 13^{\circ}20'$
 $400' to = 1''$

DELTA
1525

SURPRISE
UN SUR

TEASER
3306

ANACONDA
1535

BIG SWEDE
UN SUR

PEABODY
286

PITTSBURG
3306

S 56°08W No 3
528.5

HILLSIDE
3306

JEROME
UN SUR

APOLLO
UN SUR

S 56°04W
547.8

GOLDEN SHIELD

REPUBLIC

COPPER KING

TYCOON

ESMERALDA
3242

DWARF
3242

BLUE LEAD
EXTENSION

EL PASO SMELTING WORKS

ORE SETTLEMENT

EL PASO, TEXAS. 7/1/47
SMELTER LOT 1632
SHIPPER'S LOT 2
CLASSIFICATION ore
NAME OF MINE Shannon

BOUGHT OF R. L. Brown
ADDRESS P.O. Box 368, Douglas, Arizona
SHIPPING POINT Tombstone, Arizona

CAR		WEIGHT IN AVOIRDUPOIS POUNDS					N. Y. METAL QUOTATIONS	
No.	INITIAL	GROSS	SACKS		NET WEIGHT	MOISTURE %	DRY WEIGHT	Settlement Date <u>6/16/47</u> B/L Date <u>6/9/47</u>
			No.	WEIGHT				
11071	SP				56000	3.9	53816	Silver <u>90.0</u> Cts. per oz. F'gn Silver <u>66.2</u> Lead \$ Per 100 lbs. E. & M. J. Copper <u>21.290</u> Cts. per lb.
								PREMIUM METAL CONTENT
								Lead _____ lbs.
								Copper <u>1287</u> lbs.

PAYMENTS FOR METALS									VALUE		
ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	AMOUNT PER TON	AMOUNT TOTAL
Gold	.0475	oz.					.0475	oz.	32.31825	1.54	
Silver	4.05	oz.	.5	3.55			3.55	oz.	.885	3.14	
Lead	.7	%	No	Pay				lbs.			
Copper	2.465	%	.4	2.065	41.3	95	39.235	lbs.	.1858	7.29	
TOTAL PAYMENTS FOR METALS											11.97

DEDUCTIONS							DEBITS	CREDITS
BASE CHARGE: F. O. B. El Paso, for Metal Payments, not exceeding \$ <u>15.00</u> per ton							3.00	
<u>10</u> % of \$ excess over \$ <u>15.00</u> per ton								
Handling Sacks								
Copper Deficiency								
Bullion Freight Tax <u>39.235 @ .00024</u>							.01	
ANALYSIS			DEDUCTION	NET	RATE			
Insoluble	%			%	@	Cts.		
Silica	%			%	@	Cts.		
Iron	%			%	@	Cts.		
Mn	%			%	@	Cts.		
Lime	%			%	@	Cts.		
Zinc	%			%	@	Cts.		
Sulphur	%			%	@	Cts.		
Alumina	%			%	@	Cts.		
As	%			%	@	Cts.		
Sb	%			%	@	Cts.		
Bi	%			%	@	Cts.		
TOTAL DEDUCTIONS							3.01	3.01
NET VALUE PER TON								8.96

			DEBITS	CREDITS
Total Value on	26.908	Dry Tons @ 8.96	Per Ton	241.10
Less Freight on	28	Wet Tons @ 1.92	Per Ton 53.76 + 1.61 Tax	55.37
		Hauling Charge		
		Switching 3.10 + .09 Tax		3.19
		Umpires		
		Hawley		6.00
Amount withheld pending receipt of Silver Affidavit	(10% - 2.26)			22.60
Royalty 10% to RFC				15.39
		BALANCE DUE SHIPPER		138.55
Valuation for freight per wet ton \$ 9.95 (two lots)				241.10
				241.10

Made by _____ Checked _____ Correct _____ Approved _____

AMERICAN SMELTING AND REFINING COMPANY
EL PASO SMELTING WORKS

ORE SETTLEMENT

EL PASO, TEXAS, 7/1/47
SMELTER LOT 1633
SHIPPER'S LOT 1
CLASSIFICATION Ore
NAME OF MINE ShannonBOUGHT OF R. L. Brown
ADDRESS P.O. Box 368, Douglas, Arizona
SHIPPING POINT Tombstone, Arizona

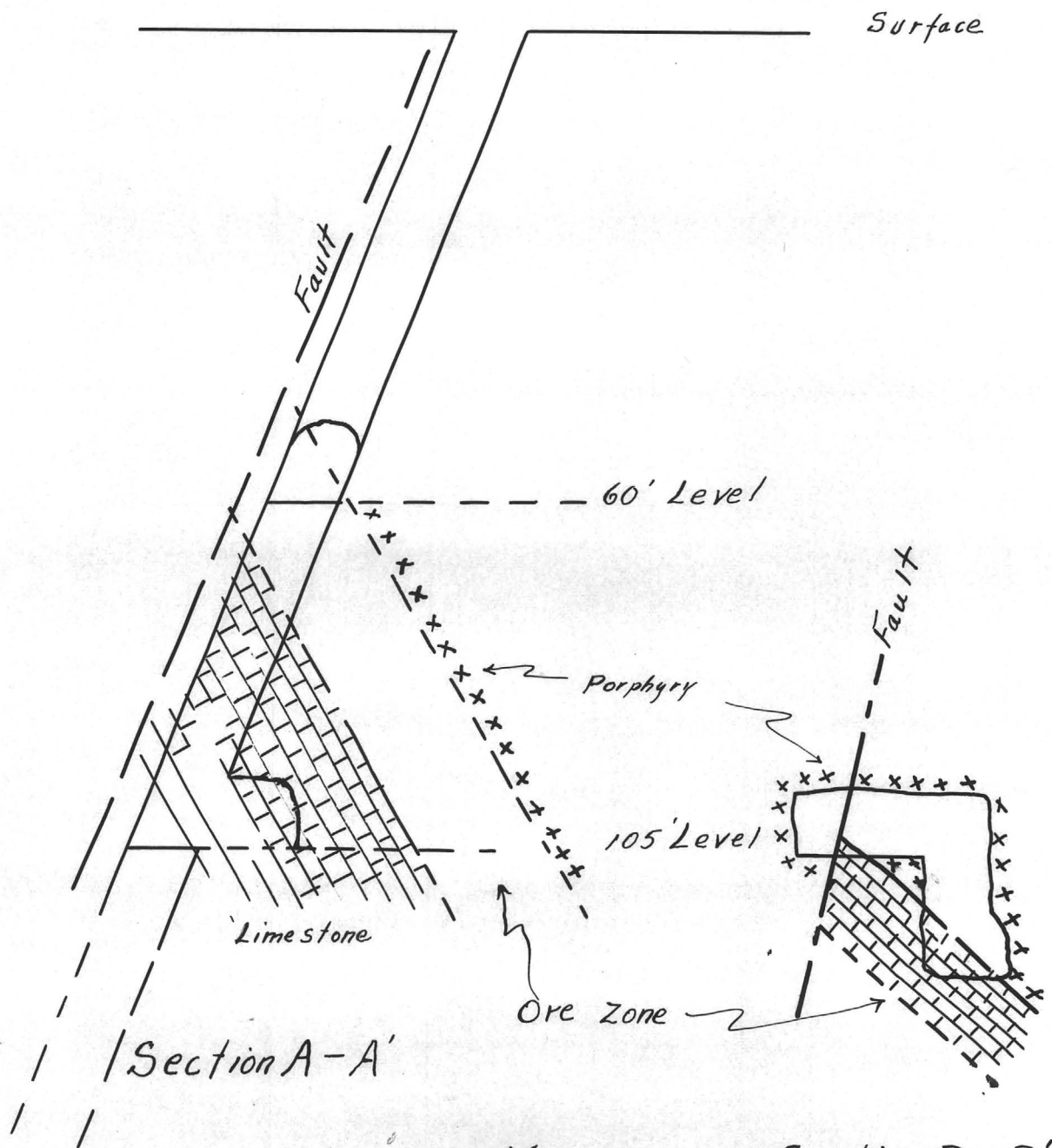
CAR		WEIGHT IN AVOIRDUPOIS POUNDS						N. Y. METAL QUOTATIONS	
No.	INITIAL	GROSS	SACKS		NET WEIGHT	MOISTURE %	DRY WEIGHT	Settlement Date 6/16/47	
			NO.	WEIGHT				B/L Date 6/9/47	
11071	SP				22920	5.0	21774	Silver	90.0 Cts. per oz.
								F'gn Silver	66.2
								Lead	\$ Per 100 lbs.
								E. & M. J.	
								Copper	21.290 Cts. per lb.
PREMIUM METAL CONTENT									
								Lead	lbs.
								Copper	1027 lbs.

PAYMENTS FOR METALS									VALUE	
ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	AMOUNT PER TON
Gold	<u>.005</u>	oz.	<u>No Pay</u>							
Silver	<u>.95</u>	oz.	<u>.5</u>	<u>.45</u>			<u>.45</u>		<u>.885</u>	<u>.40</u>
Lead	<u>.3</u>	%	<u>No Pay</u>							
Copper	<u>4.865</u>	%	<u>.4</u>	<u>4.465</u>	<u>89.3</u>	<u>95</u>	<u>84.835</u>		<u>.1858</u>	<u>15.76</u>
TOTAL PAYMENTS FOR METALS										<u>16.16</u>

DEDUCTIONS						DEBITS	CREDITS
BASE CHARGE: F. O. B. El Paso, for Metal Payments, not exceeding \$ <u>15.00</u> per ton						<u>3.00</u>	
<u>10</u> % of \$ <u>1.16</u> excess over \$ <u>15.00</u> per ton						<u>.12</u>	
Handling Sacks							
Copper Deficiency							
Bullion Freight Tax <u>84.835 @ .00024</u>						<u>.02</u>	
ANALYSIS	DEDUCTION	NET	RATE				
Insoluble	%		%	@	Cts.		
Silica	%		%	@	Cts.		
Iron	%		%	@	Cts.		
Mn	%		%	@	Cts.		
Lime	%		%	@	Cts.		
Zinc	%		%	@	Cts.		
Sulphur	%		%	@	Cts.		
Alumina	%		%	@	Cts.		
As	%		%	@	Cts.		
Sb	%		%	@	Cts.		
Bi	%		%	@	Cts.		
TOTAL DEDUCTIONS						<u>3.14</u>	<u>3.14</u>
NET VALUE PER TON							<u>13.02</u>

				DEBITS	CREDITS
Total Value on	<u>10.887</u>	Dry Tons @	<u>13.02</u>	Per Ton	
Less Freight on	<u>11.46</u>	Wet Tons @	<u>1.92</u>	Per Ton	<u>22.00 + .66 Tax</u>
		Hauling Charge			
		Switching	<u>4.34 + .13 Tax</u>		
		Umpires			
		Hawley			
Amount withheld pending receipt of Silver Affidavit (10% - .12)					
Royalty <u>10%</u>					
BALANCE DUE SHIPPER					
Valuation for freight per wet ton \$					
				<u>96.68</u>	
				<u>141.75</u>	<u>141.75</u>

Made by _____ Checked _____ Correct _____ Approved _____



Shannon Mine

R. L. Brown and C. M. Brown

Docket No ND- 8593

Scale 1" = 20' Mar. 28, 1944

Charles A. Rason

RECONSTRUCTION FINANCE CORPORATION
MINING DIVISION
MEMORANDUM REPORT OF SUPERVISING ENGINEER

Docket No. : ND-8593
R. L. Brown and C. M. Brown:
Date of Examination: : March 28, 1944
Date of Report: : April 8, 1944

The Borrower's property, near Gleeson, Arizona, was visited for a Supervision Examination on March 28, 1944. Improvements consisted of retimbering the shaft, placing a bulkhead at the 105 foot level, and erecting a headframe. Equipment, not purchased with loan funds, consists of a gasoline hoist, a mine car and some hand tools.

All of the work is handled by three men, namely: a hoistman and two miners. The ore is broken by hand steel, but the Borrower believes he can rent a compressor within the next month and materially increase the production.

The Borrower has shipped 4 cars of ore; three have been reported. The 115 tons so far shipped have averaged .045 ounces gold, 2.87 ounces silver and 2.22 per cent copper. In addition there are two more cars of ore broken in the stope which are in the process of being hoisted.

Attached to this report are two maps. They attempt to indicate the ore zone and geology more clearly than previously shown. It would appear that the borrower has excellent possibilities of producing a considerable tonnage between the two stopes and with depth.

CHARLES A. RASOR
Supervising Engineer

Attachments - 2 maps

Caved slope

Caved slope to upper level

LS

Porphyry A

To Surface

Incline shaft

Shale

Ore zone projected from known stopes and ore exposures.

3'-7' streak of massive ore
in foot wall of ore zone
oxidized ore

Lean ore

Sump 2.5' deep

Porphyry

2.5-30' streak of ore
in hanging wall

Lean ore

Fault

No alteration in
Porphyry

Shannon Mine 100 Level

R.L. Brown and C.M. Brown
Docket No ND-8593

Scale 1" = 20' Mar. 28, 1944
Charles A. Roser

Caved slope

Caved slope to upper level

LS

58°

Porphyry

To Surface

Incline shaft

shale

Ore Zone projected from known stopes and ore exposures.

A

3'-7' streak of massive ore
in foot wall of ore zone

oxidized ore

Lean ore

Sump 2.5' deep

Porphyry

2.5-30' streak of ore
in hanging wall

49°

Lean ore

Fault

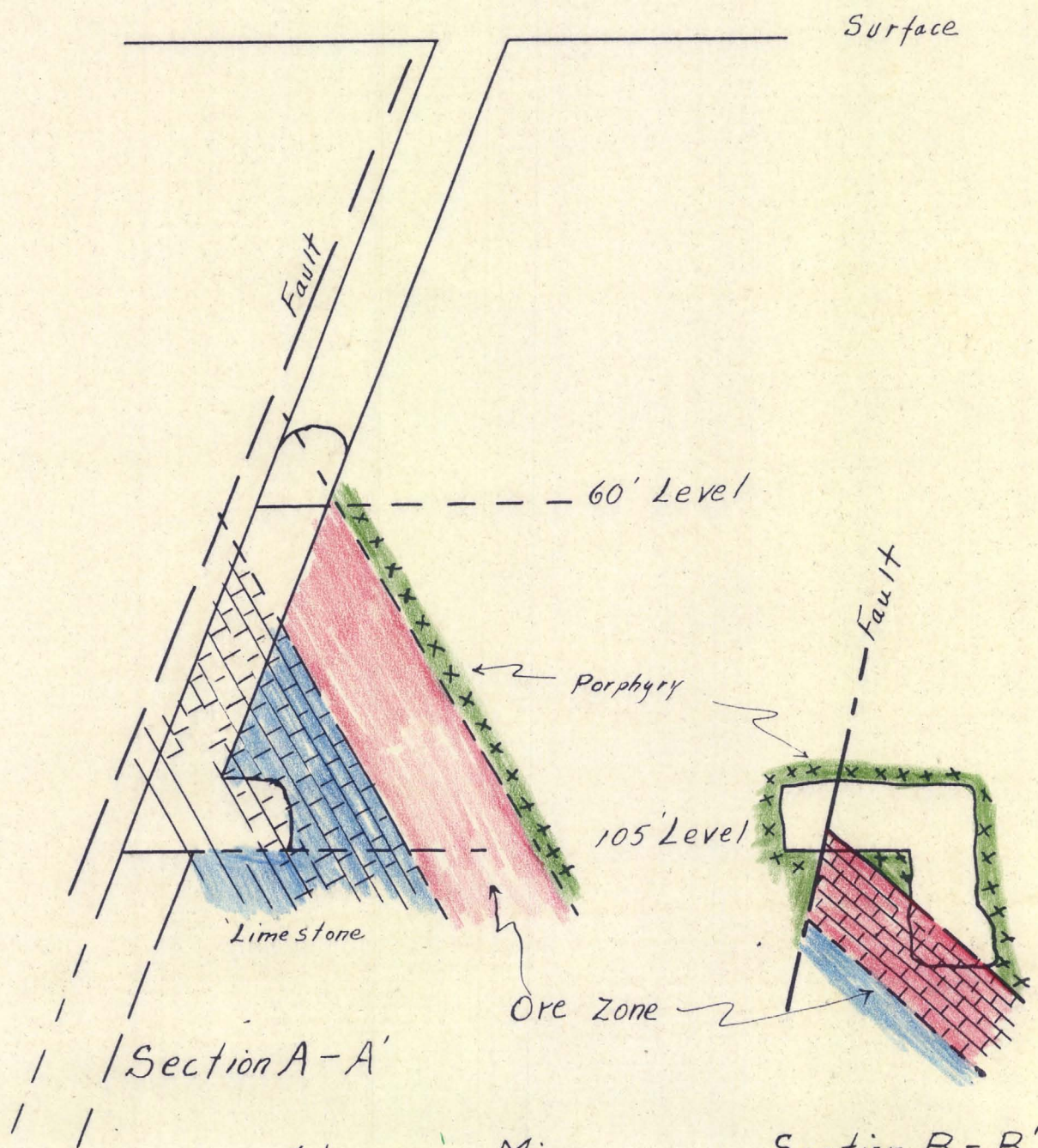
No alteration in
Porphyry

B

Shannon Mine 100 Level

R. L. Brown and C. M. Brown
Docket No ND-8593

Scale 1" = 20' Mar. 28, 1944
Charles A. Rasor



Shannon Mine

R. L. Brown and C. M. Brown
Docket No ND- 8593

Scale 1" = 20' Mar. 28, 1944

Charles A. Rasmussen

325 Heard Bldg.
Phoenix, Arizona
December 16, 1943

TULLY - Ass't. Chief - Mining Section RFC - Washington, 25, D. C.

Re: R.L. Brown & C.M. Brown - Docket No. ND-8593

I enclose the original and one copy of my report on the above captioned mining property near Gleeson, Arizona. Although the application originally came through as an accessibility loan and was passed by the State Bureau of Mineral Resources, Mr. Cohring was of the opinion that the applicant had not submitted sufficient data to process the loan. My report covers the examination and recommends the applicant be considered for a loan. The applicant has done a good job on a previous loan which he is still working under (Docket No. B-ND-4662).

Also, I enclose the original copy of applicant's application with supporting data which includes:

1. blue print map of claims
2. Geological Section through inclined shaft
3. Treasurer's Certificate of purchase
4. Two copies of field engineer's report of Arizona Dept. of Mineral Resources and blue print map
5. Report by Carl F. Hastings, Project Engineer of Dept. of Mineral Resources.

CAR
CHARLES A. RASOR
Supervising Engineer

CAR:dem
Encs. as listed above

RECONSTRUCTION FINANCE CORPORATION
MINING DIVISION
REPORT OF SUPERVISING ENGINEER

Docket No. - ND-8593
R.L. Brown & C.M. Brown

Date Authorization for Exam. - Dec. 3, 1943
Date of Examination - Dec. 7, 1943
Date of Report - Dec. 16, 1943

1. NAME AND ADDRESS OF APPLICANT

R.L. Brown and C.M. Brown
Box 182
Tombstone, Arizona

Correspondent

R.L. Brown

2. CHARACTER OF PROJECT

To develop and mine copper ore through an incline shaft.

3. LOCATION OF MINE

In Section 29, T. 19-S, R. 25-E, Turquoise Mining District,
Cochise County, Arizona.
The nearest railway station is Tombstone, Arizona, about 18
miles by improved county road. Road is accessible all year
around.

4. APPLICANT

Applicant is capable of handling loan funds. He is a graduate
of Harvard University in 1932 with a degree of mining engineering.
Was geologist for McIntyre Mines, Magnet Consol. and International
Nickel. More recently he has been operating the Tombstone Extension
Mine on his own and later with a \$5,000 development loan (see Docket
B-ND-4662). This loan is in effect and the applicant is still mining
lead ore. Continuation of mining at the Tombstone Extension depends
on the attitude of the Quota Committee in granting a "B" bonus on lead.

5. LOAN REQUESTED

\$5,000
\$5,500 Recommended

6. DESCRIPTION OF PROJECT

A. General Features

1. No mine workings, mill, or other necessary appurtenances
which are not confined within applicant's ownership.
2. Proposed project will comply with state compensation or
safety-first statutes.
3. No legal discrepancies not covered.
4. Right-of-way facilities for all operations are unimpeded.
5. No likelihood of surface or sub-surface trespass during project.

B. Existing Development

1. Shaft Mine

- a. A compass and tape survey was made of the underground working and reference to the surface and underground workings of the old Leonard Mine can be seen from attached maps. The shaft is inclined about 70 degrees to the west. Total depth is not known as ladders and rope did not extend to the bottom. There are two levels; one at 60 feet from the surface and the other 105 feet from the surface. The 105 foot level is the one which the applicant proposes to work and is the level which was examined. Shaft was not in good condition and entrance was made with the help of a stout rope about 100 feet long. Southwest from the shaft the 100 level extends about 100 feet. The last 45 feet was in ore and was sampled.

b. Sampling and Assay Data

Mr. A. Macfarlane, engineer for the Dept. of Mineral Resources, took 5 samples of the ore under consideration. As he did not record any widths, his samples will not be used in any calculation of the grade of ore. Nevertheless, they agree fairly close to those taken by me. His number 3 represents the same gob as my No. 152. His No. 2 corresponds to my No. 151 and his No. 5 to my No. 155. I took six samples; four which represent a length of 40 feet of ore, one which represents ore from a winze now filled with water, and one which represents some oxidized ore in another inclined shaft.

Sample No. 150 was taken in the roof across 36 inches of ore. The vein could not be sampled across the entire width as a winze full of water was directly beneath. Assay shows .12 ounces gold, 8.7 ounces silver, 7.10 per cent copper and 2.80 per cent zinc.

Sample No. 151 was taken 10 feet from No. 150 and across 30 inches of sulfide ore. Assay shows .01 ounces gold, 4.4 ounces silver, 4.45 per cent copper and 1.75 per cent zinc.

Sample No. 152 was a grab sample of a pile of ore which has been mined from the winze. Assay shows .06 ounces gold, 8.2 ounces silver, 3.51 per cent copper and 2.92 per cent zinc. Mr. A. Macfarlane's sample shows .07 ounces gold, 12.7 ounces silver and 4.68 per cent copper.

Sample No. 153 was taken across 30 inches of ore, 10 feet from Sample No. 151. Assay shows .04 ounces gold, 0.8 ounces silver, 2.15 per cent copper and 2.61 per cent zinc.

Sample No. 154 was taken across 96 inches of vein material and at the opposite end of the stope from No. 150. Assay shows .06 ounces gold, 7.8 ounces silver, 3.26 per cent copper and 1.55 per cent zinc.

c. Condition and Accessibility of Mine Workings

Shaft and underground workings are accessible, but with difficulty. Ladders are out and shaft timbers in poor condition - the last 40 feet of shaft was negotiated with the help of a stout rope. Below the drift where samples were taken, there is a winze, possibly 10 feet deep,

filled with water. Part of the proposed work is to place this shaft and underground workings in condition to mine the ore.

d. General features of deposit, ore distribution

The ore deposit which the applicant proposes to rehabilitate and to mine, is part of the Copper Belle or Leonard Mine formerly owned by the Shannon Copper Company, but now owned by the applicant. The Copper Belle or Leonard Mine has been partially described by Eldred D. Wilson in Bulletin No. 123 Arizona Bureau of Mines. I shall quote some of the paragraphs:

"The Copper Belle or Leonard deposit was discovered in 1896 by Mr. John Gleeson, who obtained the claim and in a few years developed it into an important copper producer. In five years he is said to have shipped about \$280,000 worth (gross) of ore containing from 4 to 7 per cent copper, mainly to the Clifton smelter where also the iron and sulphur content were paid for.

"Later, the Shannon Copper Company obtained a 5-year lease and bond upon the property, and eventually purchased it, according to Mr. Gleeson, for about \$100,000. This company, during 1907, shipped from the property ore that contained 64,982 pounds of copper, 20,843 ounces of silver, and 307 ounces of gold, aggregating in value \$32,962; and between 1911 and late 1912 mined about 305,000 tons of ore.

"The known important pyritic copper deposits in the Carboniferous limestone of the Turquoise district are situated a short distance northeast of Gleeson. Considerable exploration of them has been effected by the Copper Belle (Leonard), Pemberthy, and Tejon mines.

"Most of the ore bodies are confined to the limestone and show close limitation to contacts with quartz monzonite, although the latter itself often contains abundant stringers and disseminations of pyrite. The ore bodies are irregular lenses along these contacts, but nevertheless maintain a tabular, roughly veinlike character, and are widest where there is a flattening of the dip. Sometimes the ore bulges into the limestone as far as 100 feet, but usually one side remains against the quartz monzonite and fails to wander off along fractures or breccia zones.

"The ore consists of massive pyrite with minor chalcopyrite and bornite, and occasionally contains very small quantities of accessory galena and sphalerite.

"The limestone quartz monzonite contacts seem to have furnished merely channels for the passage of mineralizing solutions and found this particular limestone body favorable in composition, structure and location, to replacement".

The inclined shaft, through which the applicant proposes to work is a small part of the Leonard Mine workings, but the ore occurrence and the type of mineralization is the same as described by Eldred Wilson.

C. Proposed Development

1. Applicant proposes to rehabilitate the shaft to the 100 foot level, erect a headframe and ore bin and prepare the underground workings by sinking a winze 50 feet and drifting both directions on the ore.

2. Recommendations concerning applicant's mining method

None

3. Expected capacity of operations

- a. Mining 4-5 tons per 24 hr. day
- b. Drift development, 3 feet per working place
- c. Crosscut - none
- d. Raise development - none
- e. Milling - none
- f. Not applicable
- g. " "
- h. " "
- i. Local wage scale

Top man and hoistman.....	\$ 6.00
Miners.....	6.00
Shovelers.....	5.50

D. Equipment

- 1. Property is lacking in equipment.
- 2. Not applicable.
- 3. " "
- 4. Mine equipment or supplies recommended for purchase under project:
 - Hoist - Compressor - Mine Cars - Drilling Machines
 - 100 feet of track, pipe and steel
 - All this equipment applicant expects to obtain second-hand.
- 5. Mill equipment not recommended.
- 6. No housing facilities.
- 7. Camp construction not recommended.
- 8. No other expenditures recommended.

E. Cost Estimations

- a. Mining per ton \$6.50
- b. Drifting per foot \$15
- c. Crosscutting - none
- d. Raising - none
- e. Winze \$25 per foot
- f. Shaft sinking - none
- g. Milling - none

- h. Haulage \$2.00 per ton
- i. Freight to Smelter \$1.90 per ton
- j. Smelter Treatment \$3.50 per ton
- k. No royalties or superintendence
- l. Timber \$50 per 1,000
- m. Total cost per ton \$13.90

F. Ore Reserves

1. Tonnage

40 feet in length

50 feet in depth

4.5 feet in thickness

$$\frac{40 \times 50 \times 4.5}{9} = 1,000 \text{ tons}$$

2. Average value per ton

No.	Width	Au. Oz.	Width x Au.	Ag. Oz.	Width x Ag.	Copper %	Width x Copper
150	36"	.12	4.32	8.7	313.2	7.10	255.6
151	30"	.01	0.30	4.4	132.0	4.45	133.5
153	30"	.04	1.20	0.8	24.0	2.15	64.5
154	96"	.06	5.76	7.8	748.8	3.26	312.9
			<u>11.58</u>		<u>1218.0</u>		<u>766.5</u>
152	Gob	.06		8.2		3.51	

$$\text{Average Width} = \frac{192}{4} = 4.8 \text{ feet}$$

$$\text{Average Gold} = \frac{11.58}{192} = 0.06 \text{ ounces per ton}$$

$$\text{Average Silver} = \frac{1218}{192} = 6.3 \text{ ounces per ton}$$

$$\text{Average Copper} = \frac{766.5}{192} = 4.0 \text{ per cent}$$

Value of ore at Smelter according to Purchase Schedule C
date effective Nov. 9, 1943, is as follows:

AU	.06 x 32.31825	=	\$ 1.94
AG	6.3 -.5 = 5.8 x .69125	=	4.00
CU	4.0% = 80 lbs. - 8 lbs. = 72 x 95% x .0905	=	<u>6.19</u>

Total Smelter Value \$ 12.13

Metal Reserve Premium
80 lbs x 97% = 77.6 lbs. x 5 cents = 3.88

Total Value \$ 16.01

Brought Forward

\$16.01

Costs against ore.

Smelter \$ 3.50

Freight 1.90

Hauling 2.00

Mining 6.50

\$13.90

13.90

Net Operating Profit

\$ 2.11

7. EMPLOYMENT

A. Number of men now employed -- none.

B. Number of men to be employed under project:

1. One hoistman and top man \$6.00

2. Two miners 6.00 each

3. Two shovelers 5.50 each

C. One Shift per day.

8. OBJECTIONS TO PROJECT

None

9. TIME SCHEDULE

A. Three months to complete project

B. Length of operating season -- 12 months

C. To repay loan -- depends on amount of ore developed with the
initial \$5,000.

10. ESTIMATED COST OF PROJECT

A. Total Development

50 feet of winze \$1,200.00

90 feet of drifting 1,350.00

\$2,550.00

B. Purchase of Equipment

Hoist (used) \$400.00

Compressor 1000.00
(used)

2 Machines 275.00
(used)

2 Mine Cars 50.00
(used)

Rail (used) 100.00

\$1,825.00

	Brought Forward	\$ 4,375.00
C. Construction		
Retimber shaft	\$200.00	
Headframe	250.00	
Ore Bin	<u>200.00</u>	\$ 650.00
D. General Expense		
Insurance, interest, contingencies		<u>475.00</u>
TOTAL		\$ 5,500.00

11. NATURE AND SOURCES OF REVENUE

- A. Loan will be repaid from proceeds of ore that can be developed with this money. A second loan may be necessary to require self-liquidation of property.

12. COMMENTS OF SUPERVISING ENGINEER

The applicant is applying for a small loan to rehabilitate a small portion of a famous copper producer in the Gleeson area of Arizona. Production records and a stope map of the Leonard Mine attest to the fact that copper ore has been mined in quantity. Your engineer examined a small stope 40 feet long that contained sulfide ore averaging 4.5 feet in thickness and 4.0 per cent in copper. There is also some gold and silver values present. It appears that the applicant can make a profit of \$2.00 per ton on the ore in place.

The applicant proposes to use second-hand equipment and a minimum of labor namely, 5 men. These men will be taken from the Tombstone Extension Mine and will not be diverted from some other project. The applicant is operating the Tombstone Extension Mine under a \$5,000 loan. Mr. Brown, the applicant, will probably close down the Tombstone Extension as he has a letter from the Quota Committee stating that they see no reason for giving him an additional Bonus on his lead production to pay off the Reconstruction Finance Corporation loan as long as he was not hurt too much. This seems a peculiar attitude to assume. I was under the impression that the loan was to be repaid from proceeds of the ores and certainly the ore he is mining is low grade and worthy of a bonus.

Nevertheless, the applicant has gone ahead and has continued to mine and is one of our consistent producers. From his record at the Tombstone Extension, he is worthy of a loan and I recommend a loan of \$5,500 to rehabilitate the inclined shaft and underground workings of his copper mine in the Turquoise mining district, near Gleeson, Arizona. There is every indication that he may open up a sizeable ore body to the south judging from the width and extension of the gossan outcrop.

Cap
CHARLES A. RASOR
Supervising Engineer

Attachments:

1. Assay Certificate
2. Surface Map
3. Stope map of Leonard Mine
4. Sample Map

No. 234 Ra

CHAS. A. DIEHL

Phoenix, Arizona,

Dec. 11, 1943.

ARIZONA ASSAY OFFICE

Phone 3-4001

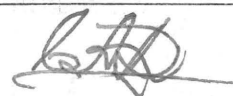
815 North First Street

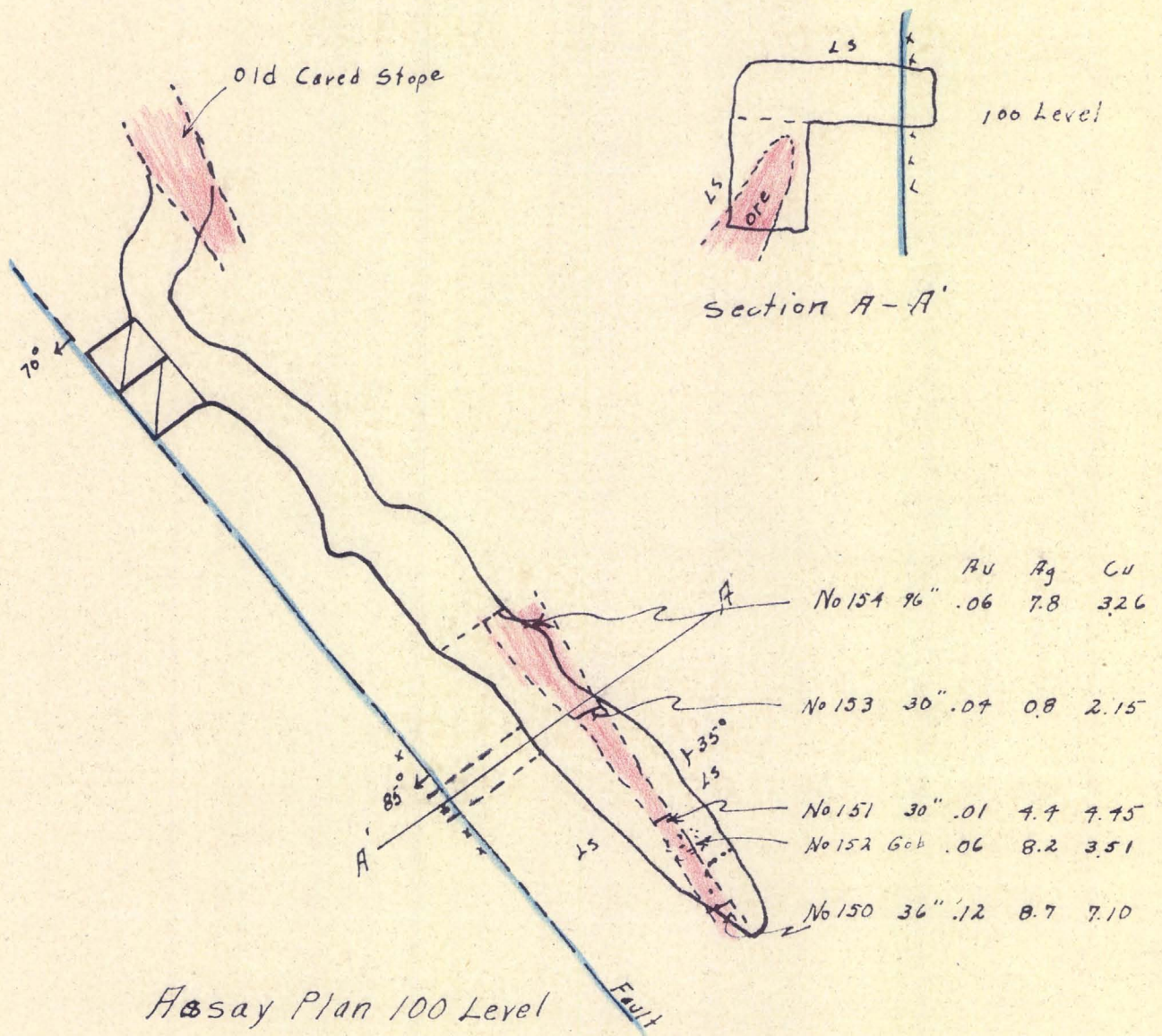
P. O. Box 1148

This Certifies That samples submitted for assay by **Mr. C.A. Raser.**

contain as follows per ton of 2000 lbs. Avoir.

No.	MARKS	SILVER		VALUE (Oz.)	GOLD		VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	PERCENTAGE			REMARKS
		Ounces	Tenths		Ounces	Hundredths			COPPER	LEAD	ZINC	
150	R.L. & C.M. Brown. Width 36"	8.7			.12		\$4.20		7.10	Trace	2.80	
151	30"	4.4			.01		\$.35		4.45	"	1.75	
152	Dump	8.2			.06		\$2.10		3.51	"	2.92	
153	30"	.8			.04		\$1.40		2.15	.30	2.61	
154	96"	7.8			.06		\$2.10		3.26	.41	1.55	
155	30"	.8			.01		\$.35		11.40	.41	1.90	

Charges \$ 27.00Assayer ARIZONA ASSAY OFFICE




Hosay Plan 100 Level

R.L. and G.M. Brown
Docket ND-8593
Scale 1" = 20 Dec. 7, 1993

Charles A. Rasor

Mine	SHANNON Cu., Ag.	Date	November 29, 1943
District	Turquoise	Engineer	Earl F. Hastings
Subject:	Reconstruction Finance Corporation Mine Loan		

1. Name and address of applicant (correspondent):
R. L. Brown, Box 182, Tombstone, Arizona.
2. Character of project and estimated cost thereof:
Cu., Ag. Rehabilitate and equip "Incline" shaft to 130 foot level, sink winze on ore. Equip Incline Prospect Shaft and sink on ore. \$5,000.00.

(D) On the presumption that copper is sufficiently critical to warrant extra premium, and on the apparent capacity of this property to produce a limited amount of that metal within a reasonable time, and together with favorable local possibilities of added production, this loan is recommended.

Earl F. Hastings, Projects Engineer

Charles F. Willis

This application would have certainly warranted a loan a short time ago. This looks like a chance to see if premiums will prove a stumbling block in copper as they are in lead and zinc.

Earl F. Hastings

RECONSTRUCTION FINANCE CORPORATION
MINING DIVISION
PROGRESS REPORT

Borrower: R. L. Brown and C. M. Brown
Docket No: ND-8593
Date of Visit: September 9, 1947
Date of Report: September 12, 1947

This project has operated intermittently for some time, but under the royalty plan has repaid the RFC \$1151.23 for ore mined. A total of \$2155.48 has been paid on the total indebtedness of \$5000.00.

Recently a settlement sheet came in showing payment for lead. This property has been considered a copper deposit, and I was curious to know where the lead and zinc (a penalty on settlement sheet) ore came from. An inspection of the property showed that the ore was coming from the old dump. The lessee was sorting out this type of ore and shipping it to the lead smelter. There was a pile of ore, about 12 tons, that consisted of lead and zinc. It would probably assay about 30 percent combined metals. This ore may be sold to the new mill that is operating in Tombstone, Arizona.

Very little work is going on here and probably in the near future it will close completely.

CHARLES A. RASOR
Supervising Engineer

CAR:gmk

325 Heard Building
Phoenix, Arizona
July 24, 1944

Tully, Ass't Chief, Mining Section - Washington, D. C.

-Re: R. L. Brown and C. M. Brown - Docket No. ND-8593

I visited the Borrower's operation on July 12, 1944, to note any progress. There were four men working, one on the surface and three underground. There was little change underground, except that the stope was four feet deeper. The Borrower is underhanding the exposure of copper ore. Beginning with February, the Borrower has shipped 442 tons of crude pyrites ore that has averaged 2.4 per cent copper, 3.1 ounces of silver, and .036 ounces of gold per ton.

Although the ore is not as high in grade as originally sampled, the Borrower has been successful in obtaining a 10 cent special premium on copper, to offset the decrease in returns. As long as the ore continues downward, the Borrower will be able to be a consistent producer.

CA

Charles A. Rasor
Supervising Engineer

CAR
blb