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Reconstruction Finance Corporation Arizona Records

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CLAUDE E. McLEAN
P. O. BOX 1898

ARIZONA TESTING LABORATORIES

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

TELEPHONE 3-6272

ASSAY CERTIFICATE

PHOENIX, ARIZONA, May 31 1944

Mr. Wm. B. Maitland, Supervising Engineer
RFC 325 Heard Building BULLARD GOLD MINES
Phoenix, Arizona

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

GOLD FIGURED AT $ 35.00 PER OUNCE.
SILVER FIGURED AT $ 0.70 PER OUNCE.

LAB. FORM 2

LAB. NO.	SAMPLE	GOLD		SILVER		PERCENTAGES			
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	LEAD		
52249	Lot 3039 5/9/44	.04 0.06	$2.10	.47 1.00	$0.70	1.90 2.02%			
52250	Lot 3044 5/12/44	.04 0.06	$2.10	.41 0.60	$0.42	1.91 1.95%			
52251	Lot 3050 5/13/44	.04 0.08	$2.80	.46 0.90	$0.63	1.90 1.89%			
52252	Lot 3064 5/17/44	.05 0.06	$2.10	.44 0.80	$0.56	2.61 2.64%			

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1944
ARIZONA, U.S.A.

RESPECTFULLY SUBMITTED,
ARIZONA TESTING LABORATORIES
BY Claude E. McLean
ASSAYER

CHARGES $ 8.00

CLAUDE E. McLEAN
P. O. BOX 1888

ARIZONA TESTING LABORATORIES

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

TELEPHONE 3-6272

ASSAY CERTIFICATE

PHOENIX, ARIZONA, May 31 1944

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GOLD FIGURED AT $ 35.00 PER OUNCE.

LAB. FORM 2 SILVER FIGURED AT $ 0.70 PER OUNCE.

LAB. NO.	SAMPLE	GOLD		SILVER		PERCENTAGES			
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	LEAD		
52249	Lot 3039 5/9/44	0.06	$2.10	1.00	$0.70	2.02%			
52250	Lot 3044 5/12/44	0.06	$2.10	0.60	$0.42	1.95%			
52251	Lot 3050 5/13/44	0.08	$2.80	0.90	$0.63	1.89%			
52252	Lot 3064 5/17/44	0.06	$2.10	0.80	$0.56	2.64%			

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 19
ARIZONA, U.S.A.

RESPECTFULLY SUBMITTED,
ARIZONA TESTING LABORATORIES
BY Claude E. McLean ASSAYER

CHARGES $ 8.00

CLAUDE E. McLEAN
P. O. BOX 1888

ARIZONA TESTING LABORATORIES

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

TELEPHONE 3-6272

ASSAY CERTIFICATE

PHOENIX, ARIZONA, May 31 1944

Mr. Wm. S. Maitland, Supervising Engineer
RFC 320 Leard Building BULLARD GOLD MINES
Phoenix, Arizona

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

GOLD FIGURED AT $35.00 PER OUNCE.

LAB. FORM 2

SILVER FIGURED AT $0.70 PER OUNCE.

LAB. NO.	SAMPLE	GOLD		SILVER		PERCENTAGES			
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	LEAD		
52249	Lot 3039 5/9/44	0.06	$2.10	1.00	$0.70	2.02%			
52250	Lot 3044 5/12/44	0.06	$2.10	0.60	$0.42	1.05%			
52251	Lot 3050 5/13/44	0.08	$2.80	0.90	$0.63	1.80%			
52252	Lot 3064 5/17/44	0.06	$2.10	0.80	$0.56	2.64%			

REGISTERED ASSAYER
CERTIFICATE
DEC. 31, 1944
ARIZONA, U.S.A.

RESPECTFULLY SUBMITTED,
ARIZONA TESTING LABORATORIES
BY Claude E. McLean
Claude E. McLean ASSAYER

CHARGES $ 8.00

CLAUDE E. McLEAN
P. O. BOX 1888

ARIZONA TESTING LABORATORIES

ANALYTICAL AND CONSULTING CHEMISTS
ASSAYERS, MINING ENGINEERS
623 EAST VAN BUREN STREET

TELEPHONE 3-6272

ASSAY CERTIFICATE

PHOENIX, ARIZONA, May 12 1944

Mr. Wm. B. Maitland, REC
325 Heard Building
Phoenix, Arizona

BULLARD GOLD MINES, INC.

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

GOLD FIGURED AT $35.00 PER OUNCE.
SILVER FIGURED AT $ 0.70 PER OUNCE.

LAB. FORM 2

LAB. NO.	SAMPLE	GOLD		SILVER		PERCENTAGES			
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	LEAD		
52058	Custom Lot #3012								
	4/26	0.04	$1.40	0.60	$0.42	2.52%			
52059	Custom Lot #3017								
	4/28	0.04	$1.40	0.50	$0.35	2.58%			
52060	Custom Lot #3020								
	5/2	0.06	$2.10	0.50	$0.35	2.52%			
	CONTROL ASSAYS								

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1944
ARIZONA, U. S. A.

RESPECTFULLY SUBMITTED,
ARIZONA TESTING LABORATORIES
BY Claude E. McLean ASSAYER

CHARGES $ 12.00

CLAUDE E. McLEAN
P. O. BOX 1888

ARIZONA TESTING LABORATORIES

ANALYTICAL AND CONSULTING CHEMISTS
ASSAYERS, MINING ENGINEERS
623 EAST VAN BUREN STREET

TELEPHONE 3-6272

ASSAY CERTIFICATE

PHOENIX, ARIZONA, May 12 1944

Mr. Wm. B. Maitland, REC.
325 Heard Building
Phoenix, Arizona

BULLARD GOLD MINES, INC.

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

GOLD FIGURED AT $35.00 PER OUNCE.
SILVER FIGURED AT $ 0.70 PER OUNCE.

LAB. FORM 2

LAB. NO.	SAMPLE	GOLD		SILVER		PERCENTAGES			
		OZ. PER TON	VALUE	OZ. PER TON	VALUE	COPPER	LEAD		
52058	Custom Lot #3012								
	4/26	.05 0.04	$1.40	.45 0.60	$0.42	2.50 2.52%			
52059	Custom Lot #3017								
	4/28	06 0.04	$1.40	.42 0.50	$0.35	2.51 2.58%			
52060	Custom Lot #3020								
	5/2 .06	0.06	$2.10	.47 0.50	$0.35	2.52%	2.46		
	CONTROL ASSAYS								

REGISTERED ASSAYER
CERTIFICATE EXPIRES
CLAUDE E. McLEAN
DEC. 31, 1944
ARIZONA, U.S.A.

RESPECTFULLY SUBMITTED,
ARIZONA TESTING LABORATORIES
BY Claude E. McLean ASSAYER

CHARGES $ 12.00

No. 415 Ma

Phoenix, Arizona,

May 11, 1944.

CHAS. A. DIEHL

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.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)		GOLD Ounces	GOLD Hundths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		% PERCENTAGE COPPER				REMARKS
P.D.Corp. U.V.Branch. B.G.M.Inc. Lot 3026					.05		$1.	75			2.19				

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

No. 415 Ma

Phoenix, Arizona,
May 11, 1944.

CHAS. A. DIEHL

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.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)		GOLD Ounces	GOLD Hundths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		% PERCENTAGE COPPER				REMARKS
P.D.Corp.U.V.Branch B.G.M.Inc.Lot 3026					.05		$1.75				2.19				

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

CAD

No. 404 Ma

Phoenix, Arizona,

Feb.17,1944.

CHAS. A. DIEHL

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.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)		GOLD Ounces	GOLD Hundths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		% COPPER	PERCENTAGE			REMARKS
Stope No.1-18"						.51	$17	.85			5.20				
Center N.Face															

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

CAD

No. 400 Ma

Phoenix, Arizona,
Jan. 18, 1944.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 Bullard 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.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)		GOLD Ounces	GOLD Hundths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		% PERCENTAGE COPPER				REMARKS
Copper stains in Cracks											.52				

Charges $ 1.00

Assayer ARIZONA ASSAY OFFICE

No. 400 Ma

Phoenix, Arizona,
Jan. 18, 1944.

CHAS. A. DIEHL

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.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER	REMARKS
Bullard Mines Co.								.52	

Charges $ 1.00

Assayer ARIZONA ASSAY OFFICE

No. 400 Ma

Phoenix, Arizona,
Jan. 18, 1944.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

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MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER	REMARKS
Bullard Mines Co.								.52	

Charges $ 1.00

Assayer ARIZONA ASSAY OFFICE

No. 400 Ma

Phoenix, Arizona,
Jan. 18, 1944.

CHAS. A. DIEHL

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.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	PERCENTAGE % COPPER	REMARKS
								.52	

Charges $ 1.00

Assayer ARIZONA ASSAY OFFICE

No.

Phoenix, Arizona,

CHAS. A. DIEHL

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.*

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)		GOLD Ounces	GOLD Hundths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		% PERCENTAGE %				REMARKS
Bullard No.1						.08	$2.	80							

Charges $ 1.00

Assayer ARIZONA ASSAY OFFICE

No. Ma

Phoenix, Arizona,

Mar.22,1944.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

This Certifies *That samples submitted for assay by* Wm.B.Maitland. *contain as follows per ton of 2000 lbs. Avoir.*

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)		GOLD Ounces	GOLD Hundths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		% PERCENTAGE %				REMARKS
Bullard No.1						.08	$2.80								

Charges $ 1.00

Assayer ARIZONA ASSAY OFFICE

No. Ma

Phoenix, Arizona,
Mar. 22, 1944.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

This Certifies *That samples submitted for assay by* Wm. B. Maitland. *contain as follows per ton of 2000 lbs. Avoir.*

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)		GOLD Ounces	GOLD Hundths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		% PERCENTAGE %				REMARKS
Bullard No. 1						.08	$2.	80							

Charges $ 1.00

Assayer ARIZONA ASSAY OFFICE

No. 402 Ma

Phoenix, Arizona,

CHAS. A. DIEHL

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.

BULLARD MARKS No.	Width	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER	REMARKS
12 M	2'					.06	$2.10		.80	

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

Bullard Mine March 4, 1943

Sample No 1 grab from top of 90' raise
0.20 4.20% vein + 8' wide

Sample No 2 6' at Dryer station No 4 in
0.50 9.25 reduced to 3.00% small stope off ~~opposite~~ out crop
Vein N30E 12 W dip

Sample No 3 5' cha center of tunnel
0.08 2.80

Tunnel runs N12E 50'
top of 90' raise is
about 12' below
center of this tunnel

Sample No 4 -3½' Vein outcrop in open
0.06 2.10 cut about N60E
200' from tunnel

Sample No 5 — 2½' in 20' drift just
0.06 2.10 below head of tramway
N60E 28°S
As + R # 14

Sample No 6 $2\frac{1}{2}'$ In 30' drift running N 35 E
0.12 4.20 at head of tram
near Dryer station
Vein N 35 E -25 S

Sample No 7 2' 20' below drift in
0.22 7.70 underhand stope
between Sta 14-15 Dryer

Sample No 8 2' 10' below Sta 17 in bottom
0.04 1.40 of underhand stope

Sta 17-18 S 18 W -21° 103'
from last Dryer sta to
bottom of underhand stope
average 25' wide

Sample No 9 2'
0.56 1.82 old No 11 A
at Sta 18

Sample No 10 3'
0.10 2.00 on E wall of stope
1/2 way between 17 + 18

Sample No 11 3'
0.12 2.25 E wall of stope + a little
above Sta 17

3.23
.32
2.91

4.13
3.23
7.36
4.87
2.49 net

2.49

.10 gold
1.00% Copper

$2.00
$0.49 profit

.10

5400
500
1000
6900

6 AM

734 W Willetta

59 W. Windsor

WICKENBURG ORE MARKET

ASSAY CERTIFICATE

JOHN C. HERR, Assayer

WICKENBURG, ARIZONA Feb. 7th 1944, 19

Bullard Gold Mines Inc.

Aguila Ariz.

Samp. No.	Owner's Mark on Sample	GOLD Oz.	GOLD Ton	GOLD Wgt.	GOLD Ton	SILVER Oz.	SILVER Ton	SILVER Wgt.	SILVER Ton	Percent of Cop'r	Percent of Lead	Total Value Per Ton	Total Value Per Ton
2/Stope	Feb. 5th Sample							Gold	0.03	1.8%			
	#2 Stope -30 inches N E Face												
	35 Ft from Raise							"	0.035	1.00%			
	#2 Stope Back N E End 36 inches								0.12	0.50%			

Gold at $..... per Oz.

Copper at Smelter Settlement

John C. Herr ASSAYER

No. 402 Ma

Phoenix, Arizona,
Feb. 5, 1944.

CHAS. A. DIEHL

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.

BULLARD MARKS No.	Width	SILVER Ounces	SILVER Tenths	VALUE (Oz.)		GOLD Ounces	GOLD Hundths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		% PERCENTAGE COPPER				REMARKS
12 M	2'					.06		$2.	10			.80				

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

No. 402 Ma

Phoenix, Arizona,
Feb. 5, 1944.

CHAS. A. DIEHL

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.

BULLARD No.	Width	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% COPPER	PERCENTAGE	REMARKS
12 M	2'				.06		$2.10		.80		

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

Copy.

WICKENBURG ORE MARKET

ASSAY CERTIFICATE

JOHN C. HERR, Assayer

WICKENBURG, ARIZONA Jan. 21st 1944, 19

Bullard Gold Mines Inc.

Aguila, Ariz.

Samp. No.	Owner's Mark on Sample	GOLD Ozs. Ton	GOLD Val. Ton	SILVER Ozs. Ton	SILVER Val. Ton	Percent of Cop'r	Percent of Lead	Total Value Per Ton
I-#2	Stope-5 Ft.30Ft. West F W & Raise				Gold 0.09	2.00%		
2-#2	Stope 4½ Ft -IOFt S E of #1				" 0.085	I.20%		
3- "	" 6 Ft. IO Ft. SE of #2				" 0.035	I.IO%		
4- "	" 6½ Ft. IO Ft. E of #3				" 0.06	2.40%		
#5- "	" 5 Ft. IO Ft. E of # 4				" 0.065	I.60%		
6- "	" 3 Ft. 20 Ft. NE of #5				" 0.08	2.60%		
7- "	" 4 Ft. IO Ft. N of #6				" 0.06	I.50%		
8- "	" 5 Ft. IO Ft. N of #7				" 0.08	2.20%		
9- "	" 2½ Ft. West Side North Heading				" 0.085	I.00%		
IO- "	" 3½ Ft. East " " "				" 0.09	0.90%		

Gold at $ 4.5' average per Oz.

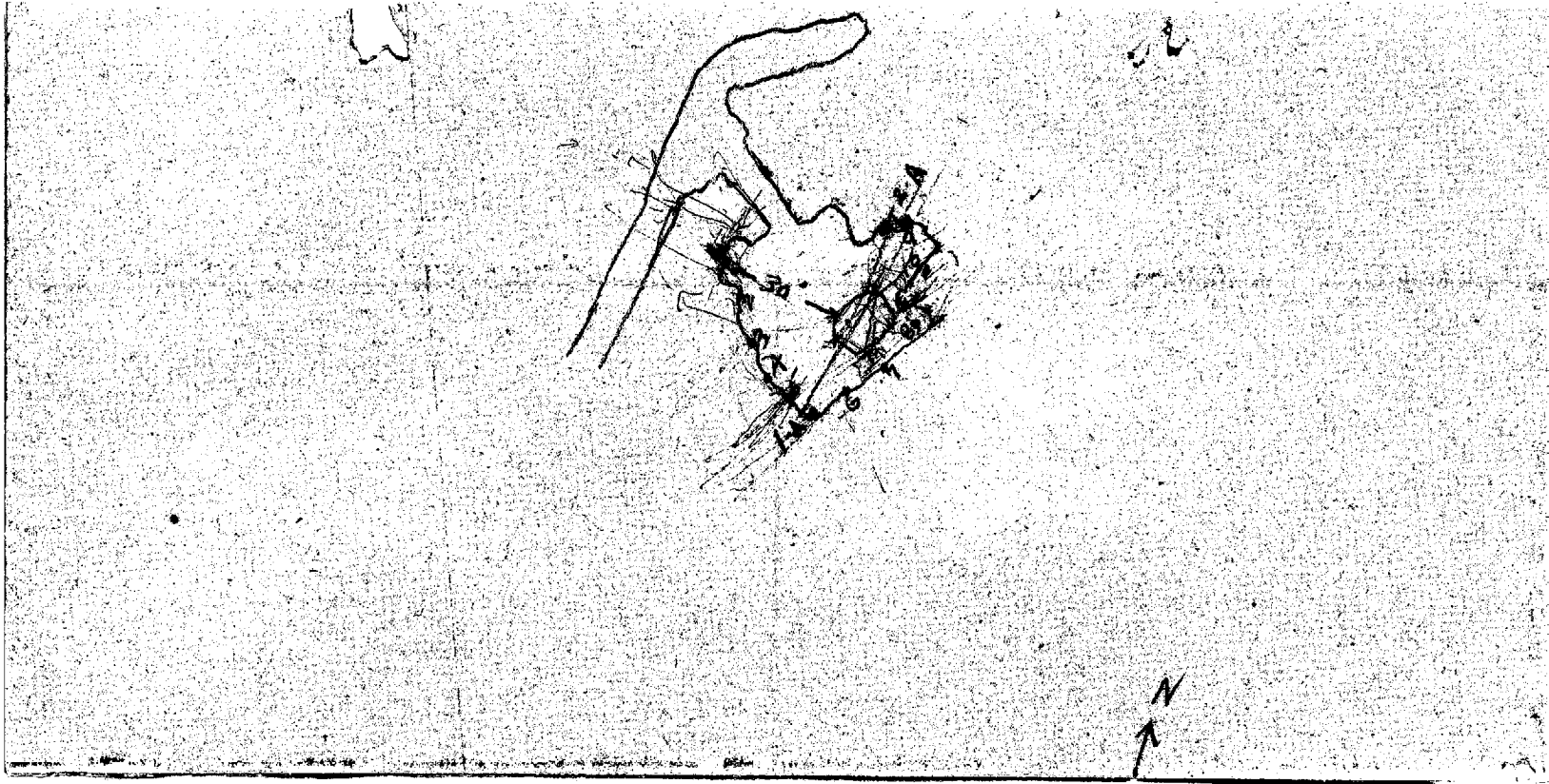
Copper at Smelter Settlement

.730 0.073 average gold

073
32
146
219
336

[signature] ASSAYER

16.50 1.65% Copper average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No. 267 Bu

Phoenix, Arizona,
Jan. 17, 1944.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

This Certifies That samples submitted for assay by Bullard Mines Co. contain as follows per ton of 2000 lbs. Avoir.

MARKS No.	MARKS Width	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER	REMARKS
1	6'				.14		$4.90		7.80	
2	4'				.04		$1.40		1.91	

Charges $ 3.00

Assayer ARIZONA ASSAY OFFICE

No424 Ma

Phoenix, Arizona,

July 19, 1944.

CHAS. A. DIEHL

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.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.) $35	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER	REMARKS
BULLARD MINE U.V.Branch. Lot 3189-P.D.Corp.,					.14	$4.90		4.65	

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

No. 424 Ma

Phoenix, Arizona,
July 19, 1944.

CHAS. A. DIEHL

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.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.) $35	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER	REMARKS
BULLARD MINE U.V. Branch. Lot 3189-P.D. Corp..					.14	$4.90		4.65	

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

No424 Ma

Phoenix, Arizona, .

CHAS. A. DIEHL

July 19, 1944.

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.*

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.) $35	TOTAL VALUE Of Gold and Silver	% PERCENTAGE COPPER				REMARKS
BULLARD MINE U.V.Branch. Lot 3189-P.D.Corp.					.14	$4.90		4.65				

Charges $ 1.50

Assayer ARIZONA ASSAY OFFICE

Wooden

WICKENBURG ORE MARKET

ASSAY CERTIFICATE

JOHN C. HERR, Assayer

WICKENBURG, ARIZONA June 27th 1944, 19____

Bullard Gold Mines Inc.

Aguila Ariz.

Samp. No.	Owner's Mark on Sample 2 Feet	GOLD Ozs. Ton	GOLD Val. Ton	SILVER Ozs. Ton	SILVER Val. Ton	Percent of Cop'r	Percent of Lead	Total Value Per Ton
6-26	-Face bottom shaft	0.125				3.40%		
6-26-	21 Skips N Side	0.08				3.60%		

Gold at $..... per Oz.

Copper at Smelter Settlement

John C. Herr ASSAYER

SOUTHWESTERN ENGINEERING COMPANY
ENGINEERS · MANUFACTURERS · CONSTRUCTORS
MAIN OFFICE AND PLANT
4800 SANTA FE AVE.
LOS ANGELES, CALIFORNIA
TELEPHONE
JEFFERSON 7131
CABLE ADDRESS
"SOUTHENG" LOS ANGELES

January 23, 1941

To be returned H.B.P.

Mr. Mark Gemmill
Yarnell, Arizona

Dear Mr. Gemmill:

We are enclosing two copies of metallurgical data sheets reporting tests #2, #3 and #7 on your Bullard Mining Company ore sample. Data sheets #1, #4, #5 and #6 were submitted previously.

You will note that quite satisfactory copper extraction was obtained in test #7 by leaching in 2-1/2% and 10% sulphuric acid solution, but that subsequent gold extraction by cyanide leaching was not as satisfactory as desirable. It is quite possible that gold extraction could be improved by further investigation. At -10 mesh the copper dissolves slowly, requiring very long treatment. The time might be shortened somewhat by improvements in the leaching procedure but it appears that the ore is of rather dense character which would indicate finer grinding to increase the rate of copper dissolution and which probably would have an effect also on gold extraction. However, finer grinding would introduce complications in percolation, making it more feasible to employ agitation.

All factors considered, it seems to us it would be desirable to confine further investigation to acid-agitation and flotation, along lines of our tests #5 and #6. For completing the investigation along this line our testing fee will be $225.00 and the cost of assays will be extra, probably amounting to between $60 and $100 additional.

With the data enclosed, the program of preliminary testing is completed and we will await your further instructions. We believe preliminary results are sufficiently encouraging to justify continuing the investigation. If you desire us to continue on with the investigation on the basis just outlined, we are prepared to give the work our immediate attention. We appreciate the opportunity of conducting this preliminary work and regret the delay in reporting the last tests which was unavoidable owing to the slowness of test #7 leaching operations.

Mrs. Gemmill kindly wrote us concerning your illness after returning to Arizona. We hope that you have now fully recovered.

With kindest personal regards,

Very truly yours

SOUTHWESTERN ENGINEERING COMPANY

Robert Lord

ROBERT LORD, MINING DEPARTMENT

RL:AP

FORM 115-1---5M---4-39---GW

SOUTHWESTERN ENGINEERING COMPANY

4800 SANTA FE AVE., LOS ANGELES, CALIF.

METALLURGICAL TEST

LOT NO. 2860 TEST NO. 1

Amalgamation of Crude Ore

SAMPLE FROM:

Bullard Mining Company

Date Received: 12-30-40 Tested: 12-40

Character of ore: Oxidized copper-gold ore

Sample marked:

Nature of test: Amalgamation

Rougher time-minutes: Dilution: 3:1 % Solids

Dry weight of ore tested: 500 grams

Conditioning time-minutes:

Object of test:

GRINDING: 15 MINS. 50 % SOLIDS

LAB. MILL SIZE, INCHES 12 x 12

BALL CHARGE, GRAMS 9200

MESH	WEIGHT %
+ 48	.30
- 48 + 65	.77
- 65 +100	6.83
-100 +150	11.29
-150 +200	14.66
-200	66.15

ASSAYS

PRODUCTS	WEIGHT %	GOLD OZ.	SILVER OZ.	COPPER %	LEAD %	ZINC. %	IRON %
Assayed Head		.225	.45	2.83			
Calculated Head	100.00	.260					
Amalgam		1.5 milligrams of gold = .0875 oz. gold per ton ore					
Tailing	100.00	.1725	.43				

% RECOVERY & DISTRIBUTION (Based on Calculated Head)

PRODUCTS	WEIGHT %	GOLD	SILVER	COPPER	LEAD	ZINC	IRON
Calculated head	100.00	100.00					
Amalgam		33.66					
Tailing	100.00	66.34					

NOTE: Amalgamation extraction by assayed heads - tails difference was 23.33%

REAGENTS EMPLOYED: Pounds per ton added, point of addition and time of each operation

REMARKS: Ore ground in a ball mill to fineness shown above was amalgamated by rolling for 30 minutes in a bottle with 25 grams of mercury and 5.0 grams caustic soda. Amalgam recovered by panning.

FORM 115-1---5M---4-39---GW

SOUTHWESTERN ENGINEERING COMPANY

4800 SANTA FE AVE., LOS ANGELES, CALIF.

METALLURGICAL TEST

LOT NO. 2860 TEST NO. 2

Copper leaching in 2-1/2% sulphuric acid sol.

SAMPLE FROM:

BuLLARD MINING COMPANY

Date Received: 12-30-40 Tested: 1-41

Character of ore: Oxidized copper - gold ore

Sample marked:

Nature of test: Acid leaching

Rougher time-minutes: Dilution: % Solids

Dry weight of ore tested: 2000 grams

Conditioning time-minutes: Copper leaching 72 hours

Object of test: Washing & making alkaline 42 hours.

GRINDING: MINS. % SOLIDS

LAB. MILL SIZE, INCHES

BALL CHARGE, GRAMS

MESH	WEIGHT %
-10	100.00

ASSAYS

PRODUCTS	WEIGHT %	GOLD OZ.	SILVER OZ.	COPPER total %	LEAD %	ZINC %	IRON %	Non-Sulphide ~~Copper~~ %
Assayed Head	100.00	.225	.45	2.83				2.55
Calculated Head				2.81				
Leached tailing	98.00			2.15				
Copper solution	125.00			.562				

Note: Ore prepared for leaching by stage grinding dry in a laboratory disc pulverizer. Each grinding stage was followed by screening.

% RECOVERY & DISTRIBUTION (Based on Calculated Head)

PRODUCTS	WEIGHT %	GOLD	SILVER	COPPER	LEAD	ZINC	IRON	
Assayed head	100.00			100.00				
Leached tailing	98.00			74.45				
Copper solution	125.00			24.82				
Unaccounted for				.73				

REAGENTS EMPLOYED: Pounds per ton added, point of addition and time of each operation

PROCEDURE: 2000 grams of -10 mesh ore leached for 72 hours with 2500 cc (1.25:1) of 2-1/2% sulphuric acid solution. Leach solution amounted to 2030 cc which was made up to original volume of 2500 cc by percolation of 430 cc wash water. Next, percolated 1000 cc (.50:1) of wash water to remove excess acidity. Added 25.00 lbs. hydrated lime per ton to top of charge and percolated 2500 cc (1.25:1) of water in attempt to make alkaline. Filtrate still acid. These washing operations required 24 hours. Over next 22 hours percolated three 500 cc (.25:1) washes each containing 8.00 lbs. caustic soda per ton solution (2.00 lbs. per ton ore). Last filtrate was alkaline. It had been intended to proceed with cyanide leaching from this point but copper sol. assay showed copper extraction too low to justify cyanide treatment. Sulphuric acid consumption 56.73 lbs. per ton ore.

REMARKS:

FORM 115-1---5M---4-39---GW

SOUTHWESTERN ENGINEERING COMPANY

4800 SANTA FE AVE., LOS ANGELES, CALIF.

LOT NO. 2860

METALLURGICAL TEST

TEST NO. 3

Copper leaching followed by cyanide leaching

SAMPLE FROM:

BULLARD MINING COMPANY

Date Received: 12-30-40 Tested: 1-41

Character of ore: Ozidized copper-gold ore

Sample marked:

Nature of test: Acid and cyanide leaching

Rougher time-minutes: Dilution: % Solids

Dry weight of ore tested: 2000 grams

Conditioning time-minutes: Copper leaching 72 hrs.

Object of test: Washing and making alkaline 42 hrs. Cyanide leaching 96 hours

GRINDING: MINS. % SOLIDS

LAB. MILL SIZE, INCHES

BALL CHARGE, GRAMS

MESH	WEIGHT %
-10	100.00

ASSAYS

PRODUCTS	WEIGHT %	GOLD OZ.	SILVER OZ.	COPPER total %	LEAD %	ZINC %	IRON %	Non-Sulphide Copper %
Assayed Head	100.00	.225	.45	2.83				2.55
Calculated Head								
Cyanide tailing	95.60	.205		1.78				
Copper solution	125.00			.70				
Cyanide solution	400.00							

Note: Ore prepared for leaching by stage grinding dry in a laboratory disc pulverizer. Each grinding stage was followed by screening.

% RECOVERY & DISTRIBUTION (Based on Calculated Head)

PRODUCTS	WEIGHT %	GOLD	SILVER	COPPER	LEAD	ZINC	IRON
Assayed head	100.00	100.00		100.00			
Cyanide tailing	95.60	87.10		60.13			
Copper solution	125.00			30.92			
Cyanide extr.		12.90					
Unaccounted for				8.95			

Note: At least part of the copper not accounted for would be contained in the wash and cyanide solutions which were not assayed

REAGENTS EMPLOYED: Pounds per ton added, point of addition and time of each operation

PROCEDURE: 2000 grams of -10 mesh ore leached for 72 hours with 2500 cc (1.25:1) of 5% sulphuric acid solution. All washing operations were the same as in test #2, except four 500 cc caustic soda washes applied. After making alkaline, leached for 96 hours with 8000 cc (4:1) of cyanide solution containing 1.92 lbs. NaCN per ton with 1.0 lbs. hydrated lime being added per ton solution. 2000 cc (1:1) of cyanide solution was applied each 24 hours. The cyanide filtrate contained .10 - .15 lb. CaO per ton but no free cyanide. The considerable amount of copper not extracted by acid leaching evidently consumed the cyanide resulting in the very low gold extraction. Cyanide consumption was 7.68 lbs. and sulphuric acid consumption was 86.74 lbs per ton ore.

REMARKS:

FORM 115-1---5M---4-39---GW

SOUTHWESTERN ENGINEERING COMPANY

4800 SANTA FE AVE., LOS ANGELES, CALIF.

METALLURGICAL TEST

LOT NO. 2860 TEST NO. 4

Direct Flotation with Excess of Xanthate

SAMPLE FROM:

Bullard Mining Company

Date Received: 12-30-40 Tested: 12-40

Character of ore: Oxidized copper-gold ore

Sample marked:

Nature of test: Flotation with excess xanthate

Rougher time-minutes: 5,5,5,5,5 Dilution: 20 % Solids

Dry weight of ore tested: 500 grams

Conditioning time-minutes: 5,5,5,5,5

Object of test:

GRINDING: 15 MINS. 50 % SOLIDS

LAB. MILL SIZE, INCHES 12 x 12

BALL CHARGE, GRAMS 9200

MESH	WEIGHT %
+ 48	.30
- 48 - 65	.77
- 65 +100	6.83
-100 +150	11.29
-150 +200	14.66
-200	66.15

ASSAYS

PRODUCTS	WEIGHT %	GOLD OZ.	SILVER OZ.	COPPER %	LEAD %	ZINC. %	IRON %	
Assayed Head		.225	.43	2.83				
Calculated Head	100.00	.2175		2.78				
Flotation conct.	6.70	2.48		11.69				
Flotation tailing	93.30	.055		2.14				

% RECOVERY & DISTRIBUTION (Based on Calculated Head)

PRODUCTS	WEIGHT %	GOLD	SILVER	COPPER	LEAD	ZINC	IRON	
Calculated head	100.00	100.00		100.00				
Flotation conct.	6.70	76.40		28.18				
Flotation tailing	93.30	23.60		71.82				

REAGENTS EMPLOYED: Pounds per ton added, point of addition and time of each operation

	Conditioner 5-Min.	Rougher 5-Min.	Conditioner 5-Min.	Rougher 5-Min.	Conditioner 5-Min.	Rougher 5-Min.	Conditioner 5-Min.	Rougher 5-Min.
Soda ash	4.00							
Pot.ethyl xanthate	1.00		1.00		1.00		1.00	
Pine Oil	.10		.05		.05		.05	

	Conditioner 5-Min.	Rougher 5-Min.
Pot.ethyl xanthate	1.00	
Pine oil	.05	

Flotation feed pH 8.2

REMARKS: Excess of ethyl xanthate used and applied in stages in an effort to float oxidized copper minerals. Copper silicate did not float, but carbonate floated. Flotation conct. was not cleaned.

FORM 115-1---5M---4-39---GW

SOUTHWESTERN ENGINEERING COMPANY

4800 SANTA FE AVE., LOS ANGELES, CALIF.

METALLURGICAL TEST

LOT NO. 2860 TEST NO. 5

Acid agitation and flotation

SAMPLE FROM:

Bullard Mining Company

GRINDING: 15 MINS. 50 % SOLIDS

LAB. MILL SIZE, INCHES 12 x 12

BALL CHARGE, GRAMS 9200

MESH	WEIGHT %
+ 48	.30
- 48 + 65	.77
- 65 +100	6.83
-100 +150	11.29
-150 +200	14.66
-200	66.15

Date Received: 12-30-40 Tested: 12-31-40

Character of ore: Oxidized copper-gold ore

Sample marked:

Nature of test: Acid agitation & flotation

Rougher time-minutes: 6,4,5 Dilution: Flot.20% Solids

Dry weight of ore tested: 500 grams

Conditioning time-minutes: 3

Object of test:

ASSAYS

PRODUCTS	WEIGHT %	GOLD OZ.	SILVER OZ.	COPPER %	LEAD %	ZINC. %	IRON %
Assayed Head	100.00	.225	.45	2.83			
Calculated Head				2.49			
Flot. conct.	2.78	4.44*		74.64			
Flot. midd.	12.70	.40		2.76			
Flot. tailing	84.52	.06		.08			

* Calculated assay. Assay charge lost during fusion.

% RECOVERY & DISTRIBUTION (Based on Calculated Head)

PRODUCTS	WEIGHT %	GOLD	SILVER	COPPER	LEAD	ZINC	IRON
Assayed head	100.00	100.00		100.00			
Flot. conct.	2.78	54.88		73.32			
Flot. midd.	12.70	22.58		12.39			
Flot. tailing	84.52	22.54		2.39			
Unaccounted for				11.90			

NOTE: Precipitation of copper was not quite complete due to too little iron surface or too short contact. Copper unaccounted for probably not precipitated.

REAGENTS EMPLOYED: Pounds per ton added, point of addition and time of each operation

	Conditioner 3-Min.	Rougher 6-Min.	Rougher 4-Min.	Rougher 5-Min.	Cleaner
Pentasol xanthate	.10		.05		.05
P.E. Oil				.20	.10
Pine Oil					.05

NOTE: 2:1 of 5% acid solution would equal 200 lbs. sulphuric acid per ton ore. Most of this acid appeared to be consumed.

REMARKS: Ore ground with water in a ball mill to fineness shown above then thickened to 2:1. Sulphuric acid added to make 5% solution and pulp agitated for 2 hrs. Iron shavings then added and pulp agitated for 1-1/4 hrs. to precipitate copper. After precipitation pulp was floated.

FORM 115-1---5M---4-39---GW

SOUTHWESTERN ENGINEERING COMPANY

4800 SANTA FE AVE., LOS ANGELES, CALIF.

LOT NO. 2860-6

METALLURGICAL TEST

TEST NO. 6

Acid Agitation and Flotation

SAMPLE FROM:

BULLARD MINING COMPANY

GRINDING: 20 MINS. 50 % SOLIDS

LAB. MILL SIZE, INCHES 12 x 12

BALL CHARGE, GRAMS 9200

Date Received: 12-30-40 Tested: 1-4-41

Character of ore: Oxidized copper-gold ore

Sample marked:

Nature of test: Acid agit. and flotation

Rougher time-minutes: 4,5 Dilution: 20 % Solids

Dry weight of ore tested:

Conditioning time-minutes:

Object of test:

MESH	WEIGHT % Flot. Tailing
+ 48	.11
- 48 + 65	.43
- 65 +100	2.23
-100 +150	5.69
-150 +200	13.31
-200	78.23

ASSAYS

PRODUCTS	WEIGHT %	GOLD OZ.	SILVER OZ.	COPPER %	LEAD %	ZINC. %	IRON %
Assayed Head		.225	.45	2.83			
Calculated Head	100.00	.2286		2.67			
Flot. Conct.	3.06	3.976		82.20			
Flot. Midd.	5.70	1.155		1.27			
Flot. Tailing	91.24	.045		.09			

NOTE: Copper dissolved in the 2-hr. agitation period seemed to be precipitated quite completely but some further dissolving of copper minerals appeared to take place in the flotation machine

% RECOVERY & DISTRIBUTION (Based on Calculated Head)

PRODUCTS	WEIGHT %	GOLD	SILVER	COPPER	LEAD	ZINC	IRON
Calculated head	100.00	100.00		100.00			
Flot. Conct.	3.06	53.23		88.88			
Flot. Midd.	5.70	28.80		2.56			
Flot. Tailing	91.24	17.97		2.90			
Unaccounted for				5.66			

REAGENTS EMPLOYED: Pounds per ton added, point of addition and time of each operation

	Conditioner 1-Min.	Rougher 4-Min.	Rougher 5-Min.	Cleaner
P.E. Oil	.20		.20	.10
Pentasol Xanthate	.10		.05	.05
Pine Oil				.05

Note: 2:1 of 5% solution would equal 200 lbs. sulphuric acid per ton ore. Most of the acid appeared to be consumed.

REMARKS: Ore ground in water to fineness shown above then thickened to 2:1. Added sulphuric acid to make 5% solution and agitated 2 hrs. to dissolve copper Agitated 1-3/4 hrs. with iron shavings to precipitate copper and then floated.

FORM 115-1---5M---4-39---GW

SOUTHWESTERN ENGINEERING COMPANY

4800 SANTA FE AVE., LOS ANGELES, CALIF.

LOT NO. 2860

METALLURGICAL TEST

TEST NO. 7

Acid leaching followed by cyanide leaching

SAMPLE FROM:

BULLARD MINING COMPANY

Date Received: 12-30-40 Tested: 1-41

Character of ore: Oxidized copper-gold ore

Sample marked:

Nature of test: Acid and cyanide leaching

Rougher time-minutes: Dilution: % Solids

Dry weight of ore tested: 2000 grams

Conditioning time-minutes: Copper leaching 168 hrs.

Object of test: Washing and making alkaline 60 hrs.

Cyanide leaching 108 hrs.

GRINDING: MINS. % SOLIDS

LAB. MILL SIZE, INCHES

BALL CHARGE, GRAMS

MESH	WEIGHT %
-10	100.00

ASSAYS

PRODUCTS	WEIGHT %	GOLD OZ.	SILVER OZ.	COPPER Total %	LEAD %	ZINC. %	IRON %	Non-Sulphide Copper %
Assayed Head	100.00	.225	.45	2.83				2.55
Calculated Head				2.79				
Cyanide tailing	92.70	.106		.33				
Composite copper solution	421.70			.59				
Cyanide solution	450.00							

Note: Ore prepared for leaching by stage grinding dry in a laboratory disc pulverizer. Each grinding stage was followed by screening.

% RECOVERY & DISTRIBUTION (Based on Calculated Head)

PRODUCTS	WEIGHT %	GOLD	SILVER	COPPER	LEAD	ZINC	IRON	
Assayed head	100.00	100.00		100.00				
Cyanide tailing	92.70	43.67		10.81				
Composite copper solution	421.70			87.92				
Cyanide extr.		56.33						
Unaccounted for				1.27				

REAGENTS EMPLOYED: Pounds per ton added, point of addition and time of each operation

PROCEDURE: 2000 grams -10 mesh ore leached for 48 hours with 2000cc (1:1) of 2.5% sulphuric acid solution and 120 hours with 5000 cc (2.5:1) of 10% acid solution. 1000 cc (.50:1) 10% acid solution applied each 24 hours over the 120 hr. period. A water wash of 2000 cc (1:1) was applied in the next 24 hours, the filtrate from which was combined with the copper solutions to make the "composite copper solution". In the next 24 hours a water wash of 2500 cc (1.25:1) was applied and the filtrate discarded. In the next 12 hrs. 2000 cc (1.00:1) of alkaline wash applied containing 10 lbs. soda ash per ton. Filtrate was alkaline. In the next 96 hours charge leached with 8000 cc (4:1) of cyanide solution containing 1.92 lb. NaCN per ton. 2000 cc (1:1) cyanide solution applied each 24 hours. To first three solutions 1.0 lb. hydrated lime per ton added. During percolation of third solution, filtrate showed neutral so added 2.00 lbs. soda ash per ton to top of charge. To fourth solution added 1.0 lb. soda ash per ton instead of lime. Filtrates

REMARKS: were alkaline, with exception noted, when first coming off but became neutral on standing. One water wash of 1000 cc (.50:1) applied in 12 hours. All cyanide solutions red from suspended iron precipitate which flocculated

FORM 115-1---5M---4-39---GW

SOUTHWESTERN ENGINEERING COMPANY

4800 SANTA FE AVE., LOS ANGELES, CALIF.

METALLURGICAL TEST

LOT NO. 2860

TEST NO. 7 Cont'd

SAMPLE FROM:

BULLARD MINING COMPANY

GRINDING: MINS. % SOLIDS

LAB. MILL SIZE, INCHES

BALL CHARGE, GRAMS

MESH	WEIGHT %

Date Received: Tested:

Character of ore:

Sample marked:

Nature of test:

Rougher time-minutes: Dilution: % Solids

Dry weight of ore tested:

Conditioning time-minutes:

Object of test:

ASSAYS

PRODUCTS	WEIGHT %	GOLD OZ.	SILVER OZ.	COPPER %	LEAD %	ZINC. %	IRON %	
Assayed Head								
Calculated Head								

PRODUCTS	% RECOVERY & DISTRIBUTION (Based on Calculated Head)							
	WEIGHT %	GOLD	SILVER	COPPER	LEAD	ZINC	IRON	

REAGENTS EMPLOYED: Pounds per ton added, point of addition and time of each operatio

PROCEDURE (CONT'D)

and settled readily upon addition of lime and aluminum sulphate. Cyanide consumption was 2.78 lbs. and sulphuric acid 221.8 lbs. per ton ore. After addition of lime and aluminum sulphate higher cyanide readings obtained on which basis cyanide consumption was 1.21 lbs. per ton ore.

REMARKS:

SAMPLING DATA

Date	Sampler or Shipper	Tonnage estimated or shipped	No, of Samples	Average Width of Vein	Gold Assay Average	Copper Assay Average	Method of Computation
L(L) 1910?	E.W.Durfee, EM Report and map	43,700 TONS	58	2.48 ft.	0.1002	2.89%	Wtd.aver.
1912 & 1919	American Smelt- & Refining Reports	25,000 tons	43	2.50	0.25	2.67	" "
1931	J. V. McConnell & R. T. Mishler Report El Tigre Co. ~~Ore shipments~~	25,000	67	3.50	0.197	2.66	" "
1936-1943	Ore shipments	10,608.311	---	---	0.39	2.32	Numerical Average of 150 cars
1943	Geo. M. Colvocoresses Report	20,000	No stated	3.00	0.22	2.50	Source of figures not definite
AVERAGE OF ABOVE		-----	- - -	2.87	0.2302	2.61%	Numerical Average of Above
1943	Wm. B. Maitland Report R.F.C.	20,000	11	3.2 ft	0.20	2.63	Weighted Average

For Phelps

To be returned to:
Mr. Wm. B. Maitland
Supervising Engineer
325 Heard B. Phoenix

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

WESTERN REGION — SOUTHWEST EXPERIMENT STATION

BOX 4097
UNIVERSITY STATION
TUCSON, ARIZONA

Mr. Wm. B. Maitland, Supervising Engineer,
Reconstruction Finance Corporation,
325 Heard Bldg.,
Phoenix, Arizona.

Nov. 10, 1944

Re: Bullard Gold Mines
Your file: Docket No. ND-5391

Dear Mr. Maitland:

As requested in your letter dated Nov. 8, 1944 and addressed to Mr. Hedges, I enclose herewith the results secured in the four diamond drill holes drilled on the Bullard property by the Bureau of Mines.

Yours very truly,

Thomas C. Denton

Thomas C. Denton, Mining Engineer,
For J. H. Hedges, District Engineer.

Enclosure 2826457

Form SM-18V (July, 1943)

BUREAU OF MINES
STRATEGIC MINERALS PROGRAM
RECORD OF DIAMOND DRILL HOLE VALUES

HOLE NO: 1
Location: 5755 N; 5652 E.
Elevation of collar: 250'
Depth: 75.4'
Dip: vertical
Bearing:
Date begun: 8/24/44
Date finished: 8/31/44

PROJECT: Bullard
Location: Yavapai Co.Ariz.
12 miles no. of Aguila

Footage			Sample Nos.		Core Assays			Core recovered	Sludge Assays			Wgt. sludge	Wgt. core	
From:	To:	Feet:	Core	Sldg.	Cu%	Au.oz.	Ag.oz.	feet	Cu%	Au.oz.	Ag.oz.	gms.	gms.	Description
37.2	42.2	5.0	3352	3353	0.02*	trace	none	1.4	0.11	trace	none	6940	550	gray andesite
42.2	45.2	3.0		3354				none	0.41	0.010	0.50	8120	--	vein, Fe oxide cu, a little gold
45.2	48.2	3.0	3355	3356	0.80	0.005	0.40	1.1	0.52	trace	none	4505	395	Andesite and vein a little Cu and Au
48.2	54.4	6.2	3357	3358	0.56	trace	None	0.5	0.30	trace	none	3775	120	gray andesite
54.4	60.0	5.6	3359	3360	1.18	trace	none	3.5	1.30	0.250	0.25	3225	885	Andesite with a little Cu and Au from 54.4 to 55.4
			Note:		AX core to 48.2'; EX thereafter. Good water return throughout.									

*less than

Form SM-18V (July, 1943)

BUREAU OF MINES
STRATEGIC MINERALS PROGRAM
RECORD OF DIAMOND DRILL HOLE VALUES

HOLE NO: 4
Location: 5645 N., 5340 E.
Elevation of collar: 245 feet
Depth: 63.2 feet
Dip: Vertical
Bearing:
Date begun: 9/23/44
Date finished: 9/28/44

PROJECT: Bullard
Location: Yavapai Co., Ariz.

Footage			Sample Nos.		Core assays			Core recovered	Sludge assays			Wgt. sludge	Wgt. core	
From:	To:	Feet:	Core	Sldg.	Au.oz.	Cu %	Ag.oz.	feet	Au.oz.	Cu %	Ag.oz.	gms.	gms.	
37.2	40.2	3.0	3369	3370	0.140	8.93	0.10	1.0	0.070	2.45	0.10	2970	210	Fair Cu in andesite breccia and quartz
40.2	42.0	1.8	3371	3372	trace	0.87	none	0.5	trace	0.27	none	1635	180	Andesite & quartz with a little Cu

Note: AX core
Good water return

No casing in this hole - cemented 4 - 10 feet

Form SM-18V (July, 1943)

BUREAU OF MINES
STRATEGIC MINERALS PROGRAM
RECORD OF DIAMOND DRILL HOLE VALUES

HOLE NO: 3
Location: N. 5746; E. 5519
Elevation of collar: 293 feet
Depth: 97 feet
Dip: Vertical
Bearing:
Date begun: 9/12/44
Date finished: 9/20/44

PROJECT: Bullard
Location: Yavapai Co., Ariz.

Footage			Sample Nos.		Core recovered				Core Assays			Sludge assays			Adjusted Average
From:	To:	Feet:	Core	Sldg.	Au.oz.	Cu %	Ag oz.	feet	Au.oz.	Cu %	Ag.oz.				Description
65.0	68.5	3.5	3367	3368	trace	0.10	none	2.5	trace	0.15	none				Pink andesite with copper-bearing quartz stringer at 66.5.

Note: AX core
Good water return

No casing in this hole. Cementing 23.6 - 50.2.

Form SM-18V (July, 1943)

BUREAU OF MINES
STRATEGIC MINERALS PROGRAM
RECORD OF DIAMOND DRILL HOLE VALUES

HOLE NO: 2
Location: N.5738; E. 5392
Elevation of collar: 301
Depth: 77.2'
Dip: Vertical
Bearing:
Date begun: 9/4/44
Date finished: 9/9/44

PROJECT: Bullard
Location: Yavapai Co., Ariz.

Footage From:	Footage To:	Footage Feet:	Sample Nos. Core	Sample Nos. Sldg.	Core assays Cu%	Core assays Au.oz.	Core assays Ag.oz.	Core recovered feet	Cu%	Au.oz.	Ag.oz.	Wgt. sludge gms.	Wgt. core gms.	Description
46.0	50.4	4.4	3361	N.S.	0.02*	trace	none	3.5					1497	Red andesite with calcite veinlets
50.4	51.5	1.1	3362	3363	6.33	trace	0.20	0.4	0.95	trace	none	975	110	do. with Cu carb. veinlets 51.3 - 51.5
51.5	54.5	3.0	3364	3365	6.47	0.020	0.05	1.0	3.51	0.015	0.05	2910	360	Andesite & vein some Cu v.g. in core
54.5	57.2	2.7	3366	-	0.10	0.010	0.05						622	Andesite with some quartz

Note: All AX core
Good water return throughout

* less than. n.s. no sample taken. v.g. visible gold.

Original & as many copies as possible

20

Summary of Operations Bullard Gold Mines, Inc.

Nov 1, 1943 to Nov 1, 1944 (30)

	Total	Per Ton	%
Gross Income from sale of ore			
Gold production	708.66 oz	0.091 oz	
Gold smelter payment $32.21/oz	$22,762.00	$ 2.93	25 %
Silver production paid for	368.11 oz	0.047 oz	
Silver smelter payment $0.706/oz	$259.98	$ 0.03	1
Copper production	313,523 lbs	40.3 lbs	
Copper smelter payment $0.146 Premium plus $0.067 Smelter/lb	$66,922.34	$ 8.61	74
Total gross income from 7775.095 dry short tons	$89,944.32	$11.57	100 %
Gross Expense of ore Production			
Marketing Expense			
Smelter charges (AS+R - Phelps Dodge)	$17,087.13	$ 2.20	43 %
Railroad freight (Santa Fe RR)	13,135.92	1.69	33
Trucking ($1.00/Wet ton)	8,073.51	1.04	20
Taxes (Transportation + smelting)	673.39	0.089	2
Royalty (10% net smelter)	911.80	0.12	2
Miscellaneous expense (Telegrams + assaying)	73.96	0.001	—
Total Marketing expense	$39,955.71	$5.14	100 %
Mining Expense			
Wages (total)	$31,384.25	$4.04	62 %
Mining Supplies (expendable)	8,510.03	1.10	17
Industrial Insurance (Accident)	2975.12	0.38	6
Automobile expense (Pickup)	1494.33	0.19	3
Taxes (Payroll and property)	1767.09	0.23	4
Road Repair	34.42	0.00	—
Interest on loan + bank fees	735.12	0.09	1
Office expense (Bookkeeping + supplies)	385.67	0.05	—
Miscellaneous general expense	3363.46	0.43	7
Total Mining Expense	$50,649.49	$6.51	100 %
Total operating Expense	$90,605.20	$11.65	—
Net Loss	$660.88	$0.08	—
R.F.C. Loan	$15,000.00		
Advance by applicant	3,000.00		
Total invested capital	$18,000.00		
Net loss on operation		$660.88	
Loan repayment		3000.00	
Bills payable		351.41	
Equipment purchases and capital investment		12,356.83	
Total net payments made		$16,369.12	
Cash on hand			$1630.88

50
120
40
40
20
270

8000
.03
24000

Notes on Bullard Mine Operations
Nov 1, 1943 – Nov 1, 1944.

	Total	Per Ton of ore produced
Total Man shifts including supervision	3380.94	0.44
Tons per man shift " "	2.3	—
Feet of development work (inclined raises)	270 ft	0.03 ft
Equipment purchases (included under Capital Investment)	$9,530.78	$1.28
% Moisture in ore	326.97 tons	4.03 %
Mining supplies (Stoping + Development)		
Powder lbs used	16,464 lbs	2.1 lbs
Powder cost	$2436.72	$0.31
Caps used	10,082 caps	1.3 caps
Caps cost	$201.74	$0.03
Fuse feet used	67,706 ft	8.7 ft
Fuse cost	$473.94	$0.06
Compressed air cost (supplies + fuel)	$1817.66	$0.23
Bits cost	$1315.77	$0.17
~~Steel repair and wear~~		
Steel cost	$699.00	$0.09
Timber board feet used	10,385 ft	1.3 bd. ft.
Timber cost	$623.14	$0.08
Total expense for Oct 1943 charged to Capital Investment	$5502.86	$0.71

10,000
.02

67,000
.07
469.00

Statement of Operations Bullard Gold Mines Ltd.
Period Nov 1, 1943 to Nov 1, 1944

Loaned by R.F.C.	15,000.00	
Repaid on loan		3000.00
Net operating loss		1898.83
Accounts payable (advance by Borrower)		3000.00
Cash on hand		1630.88
Capital investment (machinery + development work)		5470.29
	15,000.00	

	Supervision	Mine	Surface	Labor Under ground	Office		Total Labor	Labor cost per ton	Office	Trucking	Assaying	Truck Expense	Gas & Oil	Timber	Powder	Caps	Fuse	Bits	Steel	Misc Supplies	Misc	Total Cost	Tonnage	Cost per Ton	Income per Ton	Total Income	Net Profit or loss Total	Per ton.
				Supplies + Material																								
Nov.	450.00	236.28		773.48	30.00		1489.76	5.84	24.17	91.65	22.50	45.45	357.25										255.21		7.50	1914.08		
Dec	450.00	196.16		1553.94	30.00		2230.10	3.66			75.00		33.87	220.35							12.50 146.30		609.1105		5.47	3334.75		

Bullard

Feb 1 Bills

Office

Office Supplies	$17.42
" "	5.00
" "	11.11
Stenographer	6.00

33.53

Mine Equipment

Payment on Compressor	300.00
450' 3/8" cable	61.51
Pipe fittings	8.40
294' 3" pipe	125.68
files	1.23
	496.82

18½
5
13½

Over

16
442) 7293
442
2873
2652
221

Mine Supplies

118 bits sharpened @ 10¢ ✓	11.80
212 " " @ 10 ✓	21.20
Carbide 100# ✓	5.42
B S Coal ✓	2.10
2 1/8 bits 100 ✓	32.64
Gas & Oil pickup ✓	53.95
Comp gas 442 gals ✓	72.93
10 gal drill oil ✓	4.69
Oil ✓	1.35
Water ✓	4.73
Fut ✓	0.57
assay Office ✓	4.50
assaying Herr ✓	46.50
Shippers repensation assayer Hawley ✓	97.50
	138.50

Repair Hoist	23.85
Tax Comm Permit	1.00
Pickup repair ✓	1.95
Telegrams	1.15
Compressor Repair ✓	5.50
Telegrams	1.42
Fut	21.69
Bolts ✓	.67
Mine Equip Pipe ✓	16.00
Machinery ✓	4.15
Nails ✓	3.83
Telegram	.33
Pipe ✓	4.00
Stove ✓	5.38
Repair hoist	16.38
Service Pickup ✓	2.50
Telegram	.33
Water ✓	2.31
Telephone	1.00
Fut	1.68
P.O. Box rent	.25
Stamps	.51
Wedges ✓	5.10
Telephone	1.60

Insurance 610.13

Mung Rate 8.33

Employee 6.17

Insurance for 10/7/43 to 1/6/44 362.72

less deposit 150.00

Bal due 212.72 + 22.41 Tax

advance dep 1/7/44 - 4/6/44 3

Labor

Date	Supt	Mine Surface	Under ground	construction	Road	Office		Total
Oct 1-15, 43	155.00	—	—	—	89.25	73.25		317.50 ✓
Oct 15-31	235.00	—	—	468.40	—			703.40 ✓
Oct Total	390.00	—	—	468.40	89.25	73.25		1020.90
Nov 1-15	225.00	161.88	327.28	—	—	—		714.16 ✓
Nov 15-30	225.00	74.40	446.20	162.40	—	—		908.00 *
Nov Total	450.00	236.28	773.48	162.40	—	—		1622.16
Dec 1-15	225.00	104.16	856.12	93.00	—	—		1278.28 *
Dec 15-31	225.00	92.00	697.82	100.44	—	—		1115.26
Dec Total	450.00	196.16	1553.94	193.44	—	—		2393.54
Total 1943	1290.00	432.44	2327.42	824.24	89.25	73.25		5036.60
Jan 1-15, 1944	225.00	120.00	730.48	78.12	—	—		1153.60
Jan 15-31						—		
Jan Total						—		

April

P.C.	Mine supplies	Packing	Offices	Gen	Office Supply	Equip
Fuse	~~5.70~~					
Rock ing repairs		10.35				
Slugs			1.00			
Telegrams			.38			
Fuse & Tools		27.41				
Telephone			5.66			
Express bills	2.45			2.45		
Hoist				1.00		
Repair		5.00		1		
Scraper				1.09		
Repair		42.77				
Mine hoist				2.01		
Fuse bills	0.52			1.70		
Gas						
Packing Standard Bill		82.29 ✓				
					7.95	
					2.50	
assays				39.00		
Hauling Water & supplies				158.37		
Water				6.21		
	7.09	.53				1.50
		1.50				1.90
						.75
						.68
		✓	✓	✓		2.53
	10.06	87.56	7.04	211.83	10.45 / 7.04 ✓ 17.49	8.88
						1.29
						4.52
						12.71
						35.26 ✓

71.96
35.26
107.22

21.27
10.06
31.33

75
74
300
525
5550

16.42
211.83
228.25

34.28
17.49
51.77

88
62
26

April 62 – 88 27 cars

Bank Balance May 9, $6958.82 ~~6484~~.31 includes
10 cars to Clarkdale only (last 1 77A)
No 77 last car to Hayden on Books + last car shipped
Last car May 4 to Clarkdale 84A (7 cars in transit

Our bal 5/8 but before Clarkdale $2248.91

Capital Investment all Expenditures for Oct 1943

Payroll	1020.90
Equipment Purchased	4101.95
Road constructor	176.00
Office Expense	30.00
Interest on Loan	48.76
Bank Fees	12.50
Industrial Insurance	77.75
Auto Expense	35.00
	5502.86

2156.08
92.83
2248.91

313,000
.23

72,110
22,677

400.75
1230.13
1630.88

Cost of Operations

~~Expense~~ Nov 1, 1943 to Nov 1, 1944

		Total	Per Ton
Gross Income from Copper	313,523 lb	66,922.34	
" " " Gold	708.666 oz	$22,762.00	
~~Gross~~ " " " Silver	368.11 oz	259.98	
~~Total~~ gross Income	7775.095 dry tons	89,944.32	
Wages (30,833.85)		31,384.25	
Mining Supplies		8510.03	
Industrial Insurance		2975.12	
Automobile expense		1494.33	
Taxes		1767.09	
Road Repair		34.42	
Interest on loan + bank fees		735.12	
Office expense		385.67	
Misc. general expense		3363.46	
Total Mine Expense		50,649.49	6.56
Smelter charges		17,087.13	
Railroad freight		13,135.92	
Trucking ore		8073.51	
Taxes		673.39	
Royalty		911.80	
Misc. expense		73.96	
Total Marketing Expense		39955.71	5.14
Total Expense		90,605.20	11.70
Net Profit or Loss		+660.88	

585.12
150.00
735.12

64587.40

7899.14
610.89
8510.03

Oct 1943 expense as capital amount

Equipment purchases + Capital Investment		12,356.83
Loan Repayment		3,000.00
Cash on Hand and accounts Receivable		1630.88
Accounts payable (incl. advance)	3,351.41	
Balance of loan due	12,000.00	
	15,000.00	17,562.59

44 719.75

24 629.79

7800) 34.42 0
.005

Sup Req No	Month	Equip Purchase	Insurance Accident	Powder	Explosives Caps	Explosives Fuse	Petty Cash	Road Repair	Auto Ins	Office Supplies	Bank Fees life of loan	Office Expense	Int + Princip	Truck Int Exp	Assaying	Truck + Auto Exp	Licenses Gas + Oil	Land Rent	Timber	Steel	Bits	Carbide		Total
1	Oct	Pickup 1115.57 2283.41 ? W.M.	155.00	~~305.24~~? 295.80	9.44		200.00																	4059.22 ✓
2	Oct							176.00																176.00 ✓
3	Oct	78.96 PG ? 566.21 W.M				24.45		27.50	40.23	8.59												5.25		751.79 ✓
4	Oct										112.50	30.00												142.50 ✓
Total	Oct	4101.95 ✓	155.00 ✓	~~305.24~~ 295.80 ✓	9.44 ✓		200.00	176.00 ✓	40.23 ✓	8.59 ✓	112.50 ✓	30.00 ✓										5.25		5129.51 X
7 Total	Nov.	~~14.32~~ 1.10 ~~21.10~~ 152.59 617.85 20.02 ✓			1.85 ✓	3.80 23.75 ✓				24.17 ✓		30.00 ✓✓		91.65 ✓	22.50 ✓	45.45 ✓	357.25 ✓✓		21.10 ✓✓	0.75 ✓		~~5.25~~	~~1056.58~~	1413.83 X
8	Dec												3146.30											3146.30 ✓
9	Dec	140.77 51.00 ✓ 348.73		~~346.44~~ 285.60	42.22 9.13	18.62 ✓						30.00			75.00		33.87	12.50	175.30 45.08	6.50	12.97		~~1253.92~~	1287.29 ✓
Total	Dec	569.10 ✓		285.60 ~~346.44~~ ✓	42.22 ✓	18.62 ✓						30.00 ✓✓	3146.30 ✓✓		75.00 ✓✓		33.87 ✓	12.50 ✓✓	220.38 ✓				~~4399.72~~	4433.59 X
1943	Total	5513.86	155.00	581.40	51.68	18.62	200.00	176.00	40.23	32.76	112.50	90.00	3146.30	91.65	97.50	45.45	391.12	12.50	220.38					10,976.93
																								~~10,585.81~~
																								~~391.12~~

18.88

X

944
925
19

51.00 - Slusher

925
102
1850
9250
94350

3

305.24
9.44
295.80

23.75
3.80
1.85
29.40

183.09
30.50
152.59

30.50
29.40
1.10

500 caps $9.44 = $0.0189 = $0.02/cap

2000# pound = 295.80

1 box = $7.40

Insurance $8.00 Underground
6.00 Surface

2000# lbs 285.80
1 box = $7.150

6000' fuse = $0.0069/ft

1622.16
162.40
1459.76

Unit Costs Bullard

Reshanking steel	.75 each	
Rethreading steel	.75 each	
Bit grinding	.10 each	
Drill steel / ft	1.00 / ft	
Bits new	.35 each	
Carbide	.06 / lb	
Powder $0.06/stick	14.8 ¢/lb	$7.40/box
Fuse	0.007 ¢/ft	
Caps	0.02 ¢ each	
Gas compressor	0.13½ ¢/gal	
Oil "	0.47 ¢/gal	
Oil Rock drill	0.47 / gal	
Timber	0.06 / ft	
Wedges	0.02 / each	
Service Pickup	$2.50	
Gas Pickup	0.23 / gal	
Oil "	$1.25 / gal	
Stove oil	$0.10 / gal	
Oxygen	$6.30 / large tank	
Acetylene	$6.00 / small tank	
Jackhammer Water needle	$1.16	
Hammer for jackhammer	17.00	
Chainsaw	$8.33 / 100 underground	2/3 payroll
	$6.17 / 100 surface	1/3 " January $7.61
Water	$7.50 / hour ft	

22
2.32
6.00
4.50
34.32

600
.06
36.00

Labor used for Mining Ore (Bullard Mine) 6 days/week

1 Date Month Day	2 Shift 1-8-4 2 4-12 3 12-8	3 Supt Wages $ /day	4 Miners Wages No. of Men	Wages per Day	Total Wages	5 Shovelers Wages No. of Men	Wages per Day	Total Wages	6 Total Underground Wages	Comp. 7 Insurance Cost $ /100	8 Surface No. of Men	Wages per Day	Total Wages	9 Comp. Ins. Cost $ /100	10. Office No. of Men	Wages per day	Total Wages	11 Comp Ins Cost $ /100	12 Total Comp Ins	13 Total Wages	14 Fed Ins and Unemploy 4%	15 Total Wages, Ins. + Taxes
1	1	10	3	6	18	2	5	10	18.00													
2	1																					
3	1																					
4	1																					
4	2																					

Cost and Net Profit Per Ton of Ore Shipped

1 Date Month Day	2 Shift	3 Tons ore Mined	4 Tons ore Shipped	5 % Copper per ton	6 oz Gold per ton	7 Smelter Net total	8 Smelter Net Per ton ship	9 Premiums paid total	10 Premiums paid per ton	11 Ore payment total	12 Ore payment per ton	13 Total Labor taxes & Ins.	14 Total Supplies per Ton	15 Contract bonus payment Per ton	16 Amortization of loan Per ton $1/ton	17 office exp Interest carrying charges Insurance etc/day	18 Same as No 17 per ton	19 Total cost per ton ore

12.319 ¢/lb Prem
20.917 ¢/lb total price

Bullard Gold Mines

Date Bill of Lading	Car No	Dry Tons	Au oz/ton	Au $/ton (32.31825)	Cu %/ton	Cu $/ton	Total Gross	Market Charges	Total Net	Before Mining Cost Net/ton	Gross per ton
Nov 1, 1943	1	59.349	.052 oz	$1.68	2.03 %	$7.80	$562.63	$282.55	$280.08	$4.71	$9.48
Nov 17, 1943	2	49.5275	.065	2.10	1.81	7.00	450.70	235.68	215.02	4.34	9.10
Nov 22, 1943	3	48.4225	.080	2.59	1.65	6.33	431.93	229.71	202.22	4.17	8.92
Nov 23, 1943	4	49.1380	.175	5.66	1.94	7.43	643.22	252.63	390.59	7.95	13.09
Nov 29	5	48.7730	0.415	13.41	2.81	11.06	1193.48	358.65	834.83	17.11	24.47
Nov. Total	5 cars	255.210					$3281.96	$5.33/ton $1359.22	1922.74	7.53	12.85
Dec 8, 1943	6	53.4010	0.225	7.27	2.94	11.61	1008.21	296.67	711.54	13.32	18.88
Dec 7, 1943	7	54.0550	0.163	5.27	2.51	9.81	815.15	284.54	530.61	9.82	15.08
Dec 10, 1943	8	54.6600	0.071	2.29	2.33	9.06	620.39	269.89	350.50	6.41	11.35
Dec 10, 1943	9	55.3310	0.195	6.30	2.13	8.22	803.41	294.27	509.14	9.20	14.52
Dec 15, 1943	10	60.3665	0.10	3.23	1.81	6.88	610.31	298.00	312.31	5.17	10.11
Dec 16, 1943	11	53.7135	0.07	2.26	1.53	5.71	428.10	258.42	169.68	3.16	7.97
Dec 17 1943	12	56.6885	0.067	2.17	1.59	5.97	461.44	278.81	182.63	3.22	8.14
Dec 19, 1943	13	56.9515	0.043	1.39	1.71	6.46	447.07	280.39	166.68	2.93	7.85
Dec 22, 1943	14	54.7690						265.78			
Dec 29, 1943	15	55.4035						279.81		$6.93	
	16								4855.83		
Dec Total	11 cars										
	17										
	18										
	19										

#2 1.76 x 49.5275 + 93.59 + 2.81 + 50.59 + 1.52
#3 1.76 x 48.4225 + 91.04 + 2.73 + 49.21 + 1.48 + .03

230
16
1380
230
3680

19,855.83
15882.95
3972.88

85.22
48.42
89.58
223.22

45.14
.76
45.90
252.57
19.89
26.89
299.35

3280.27
2088.35
5368

2612
3069
5681

Yr.	Month.	Lot No	Date	Tons ore shipped	oz Au.	% Cu	Net Smelter
~~1944~~	~~Jan.~~						
1944	Jan.	17, 18, 19 20, 21, 22, 23 24, 25, 26, 27	Jan 7, 8 11, 12, 13 17, 18, 22 24, 25, 29	616.47	0.078	2.11	$272
	Feb	28, 29, 30, 31 32, 33, 34	Feb 12, 15 19	378.8	0.086	2.06	~~252~~ 257

Month	Labor	Supplies	Equip Purchased	Other	Total
Jan	1770.46	595.30	300.00	246.50	2912.26
Feb	1668.03.	760.97	300.00	640.13	3369.13

760.00

300
200

	Per ton
Labor	2.50
Supplies	1.20
Equip to be purchased	.30
Other	.80
Total	4.80

Monthly estimated tonnage 1300

50
27
1350

% Copper	lbs per Ton	Net Smelter lbs (-8)	Net Smelter Payment 0.0905 x 95% $0.085975	Plus Premium 12.7¢ x 95% $0.12065	Total Value of Ore	Net after deduct Marketing charge $4.87	Net after deduct. 10% royalty
1.0	20	12	$1.72	$2.41	$4.13	-$0.74	
1.1	22	14					
1.2	24	16					
1.3	26	18					

oz gold per ton	Smelter Value at $32.31825 per oz	Value after deduct. 10% Royalty
0.10	$3.23	$2.91

Bullard Gold

South Side	70 man hrs	$77.00
	156 " "	156.00
	620 " "	576.60
North Side		
34		37.40
196		196.00
196		182.28
Change room		
24		22.32
Klein		200.00

80
50
4000

76.20

8466

8

600

Nov 1, 1943 To Aug 1 1944

Dry Tons	oz Au	lb Cu	Total payment
2968.637	184.08	133,038	19,594.81
3242.944	248.79	128,318	17,858.25
6211.581	432.87	261,356	37,453.06

Supplies used For Mining Ore (Bullard Mine)

1 Date Month Day	2 Shift 1-8-4 2 4-12 3 12-8	3 Sticks of Powder Used	4 Cost of Powder ¢/stick	5 Caps Used	6 Cost of Caps 1.85¢/cap	7 Feet of Fuse Used	8 Cost of Fuse 1¢/foot	9 Number of Bits Discarded	10 Cost of Bits ¢/bit ¢/bit ¢/bit	11 Timber Used	12 Cost of Timber ¢ /bd.ft.	13 Gallons of Gasoline Used	14 Cost of Gasoline ¢/gal	15 Quarts of Oil Used	16 Cost of lub. oil ¢/qt.	17 Carbide, Wedges, Coal	18 Total Cost per Day
		10	40	3	1	15	15			6' 8x8							

Carbide, Wedges, Coal.

Owl shaft dump

.05	1.16
.04	2.08
.07	1.19
.04	3.48
.03	1.48
.01	1.42
	1.80
6)1.24	6)10.81
.04	
1.29	5.94
7.23	

32
4
128

.85
.75
2.50
$ 6.10 total charges

#2 2,55+ 4.45
#3 2,26+ 4,07

#2 7.00
#3 6.33

165
125
250 1,81

1.41
282

7.00
2.10
9.10

330

362
35/14

6.33
2.59
8.92

12.7

Bullard Production

Mst	lbs Cu		Tons	Oz gold	
1940.53	10,449	Nov 1943	255.21	40.002	
3605.89	23,702	Dec	609.1105	62.738	
3302.59	24,413	Jan 1944	577.6515	45.90	
2191.02	14,976	Feb	362.0905	33.93	
6818.22	54,778	March	1438.8815	66.22	
12,594.64	81,629	April	1695.6295	106.30	248.79
~~3015.30~~ 39,468.19	~~29,871~~ 239,818	May	~~850.604~~ 5789.1775	30.92	106.30 30.92 386.01
		June			
		July			
		Aug			
		Sept			
		Oct			
		Nov			
		Dec.			

All over mine

1	38,5535	0.29	2.34	Feb 15, 1939
2	41.519	0.16	3.29	Feb 25 - 1939
3	39.2735	0.155	2.22	June 7 1940
4	46,191	0.11	3.29	
5	41.590	0.12	2.28	
6	96.390	0.20	2.20	
7	—	—	—	
8	56.618	0.1175	2.52	
9	42.768	0.385	10.75	
10	49.1395	0.235	1.445	
11	40.868	0.325	1.22	
12+13	88,573	0.365	1.245	
14	47.5505	0.345	1.38	
15B	22,5895	0.2925	2.115	
15A	15.9925	0.195	2.74	
16	44.36	0.28	2.18	
17	48,526	0.~~295~~ 315	1.995	
18	48.0175	0.286	2.10	
19	48.2825	0.3475	1.73	
20	52.1075	0.382	1.425	
21	47.1765	0.11	2.955	
22	53.3725	0.425	1.625	
23	48.642	0.315	2.47	
24	42.4265	0.325	1.83	
25	47.3525	0.092	4.78	
26	43.1145	0.462	1.85	
27	46.5125	0.109	3.885	
28	46.269	0.29	2.345	
29	41.709	0.192	4.345	
30	37.0735	0.22	2.49	
31	42.6655	0.129	1.585	

32	48.5605	0.1315	1.77
33	47.4215	0.125	1.46
34	42.7235	0.146	1.655
35	42.433	0.11	1.585
36	43.4375	0.298	2.29
37	41.5285	0.285	2.185
38	37.175	0.1127	1.365
39	32.5909	1.01	2.335
40	37.897	0.295 ~~.252~~	2.325
41	28.508	0.47	3.04
42	38.3215	0.505	2.43
43	43.0465	0.4765	2.62
44	45.6785	0.288	2.285
45	37.0345	0.485	1.96
46	40.879	0.440	2.47
47	48.4215	0.3175	2.86
48	44.9915	0.417	3.02
49	33.025	0.395	3.095
50	42.413	0.296	3.13
51	41.0975	0.125	3.01 ~~2.98~~
52	37.558	0.3425	2.55
53	33.750	0.089	1.635
54	31.6595	0.389	2.54
55	29.858	0.1215	1.065
56	44.0475	0.4285	2.71
57	54.965	0.1265	1.34
58	51.2555	0.1785	2.235
59	51.7535	0.184	2.845
60	43.2125	0.146	2.555
61	36.771	0.113	2.07
62	41.234	0.56	3.31

63	30.627	0.45	5.645
64	48.2325	0.4375	3.095
65	34.992	0.225	2.79
66	29.4025	0.479	2.835
67	46.806	0.4975	2.075
68	42.5755	0.28	1.62
69	51.162	0.347	1.48
70	50.8615	0.521	1.52
71	51.4075	0.637	1.40
72	60.0635	0.422	1.435
73	59.014	0.262	1.42
74	51.626	0.187	1.62
75	57.688	0.351	2.20
76	59.1085	0.318	2.34
77	42.7825	0.547	2.65
78	49.905	0.3975	2.585
79	57.0075	~~0.304~~ 0.2995	2.085
129	37.7895	0.3725	2.38
1	41.1825	0.26	2.20
	3581.7279	0.302	2.42
		80) 24.1767	80) 193.665

Smith Stope June 21, 1940 – May 10, 1941

80	57.852	0.447	2.00
81	50.359	0.498	2.345
82	50.2935	0.3035	2.32
83	56.8085	0.3515	1.94
84	56.648	0.32	1.92
85	48.934	0.5725	2.495
86	50.7505	0.775	1.71
87	54.574	0.29	1.61
88	32.2355	0.205	2.11
89	49.3655	0.2675	1.825
90	50.204	0.1705	1.66
91	54.921	0.240	1.80
92	45.235	0.2225	1.705
93	47.307	0.2235	1.845
94	43.076	0.1755	1.865
95	37.586	0.321	1.57
96	44.2605	0.61	1.655
97	53.9795	0.657	1.69
98	56.7345	0.75	2.18
99	32.9270	0.7375	2.31
100	48.4135	0.68	1.92
101	48.438	0.53	1.745
102	56.8	0.54	1.845
103	54.7815	0.3925	1.90
104	43.496	0.2475	2.00
105	41.8745	0.873	2.03
106	38.201	0.4145	1.85
107	42.7555	0.432	1.92
108	48.5595	0.4265	1.92
109	32.3165	0.317	1.745
110	51.9105	0.327	1.67

111	47.876	0.197	1.66
112	41.308	0.285	1.805
33	1570.7815	0.4882	1.8959
		33)13.7995	33)62.565

Blacksmith Shop

~~Jan~~ May 27, 1941
Jan 12, 1942

113	44.5155	0.52	2.555
114	46.0125	0.513	2.235
115	49.608	0.475	1.685
116	45.3615	0.5765	1.88
117	50.7115	0.544	3.155
118	47.4655	0.355	2.76
119	54.9005	0.565	2.065
120	51.9955	0.150	1.625
121	52.420	0.6515	0.24
122	51.811	0.346	1.925
123	49.3245	0.597	2.27
124	56.6985	0.3525	2.275
125	49.670	0.395	2.895
126	45.087	0.41	2.205
127	40.1095	0.355	1.715
128	35.575	0.39	2.855
16	771.266	.5128 16)8.2055	2.1463 16)34.3400

Sept 1940
Wooten Shaft June 1941

1	15.921	0.065	5.91
2	42.8015	0.213	2.20
3	30.560	0.37	3.67
4	28.409	0.222	2.40
5	37.1995	0.210	3.20
6	50.8935	0.345	3.46
1	27.9975	0.175	3.36
2	41.2775	0.335	2.42
3	40.0535	0.350	6.30
4	36.4425	0.38	2.12
5	30.127	0.341	3.82
6	35.878	0.37	2.79
7	34.4445	0.258	5.11
8	35.598	0.496	1.75
9	34.0855	0.122	2.67
10	38.263	0.19	1.51
11	39.9385	0.23	4.34
12	36.6505	0.296	3.27
13	31.7045	0.813	3.73
19	668.225	0.30268	3.37
		19)5.7510	19)64.03

	Total	0.3509	2.3959
1939-1941	6592.00 tons	148)51.9327	148)354.600

10.29
3.59
6.70

178
181

Analysis of Estimated Cost and Profit

Ore Estimation:

10.29
3.50
6.79

20,000 tons of Copper siliceous ore averaging 0.20 oz gold and 2.63 % copper across 3.2 feet.

1x2

Smelter analysis

78.2 % insoluble

73.0 % silica

6.5 % iron

0.6 % Calcium oxide

4.6 % Al_2O_3

on letter size paper

Recoverable copper content at smelter for 20,000 tons would be 892,000 lbs copper.

5102

Smelter Payments per Ton (A S + R. Smelter Hayden, Ariz)

Gold 0.20 oz @ $32.31825/oz = $6.46

Copper 2.63 % x 2000 lbs = 52.6 lbs - 8.0 lb = 44.6 x 95 % x $0.0905 = $3.83

Total smelter payments $10.29

Premium Payments on Copper

2.63 % x 2000 x 97 % x $0.127/lb 6.48

Total value of ore $16.77

4440
3458
982

Charges Per ton (Marketing)

Smelting base charge	$1.75
Tax	.03
Railroad freight	1.85
3% Tax	.06
Hauling	1.00
3% tax	.03
Moisture 3%	09
Royalty 10% of $6.51	65

350
09
09
368

10.29
3.68
6.61

10.29
5.46
4.83

594
18
612

42.37

847,400

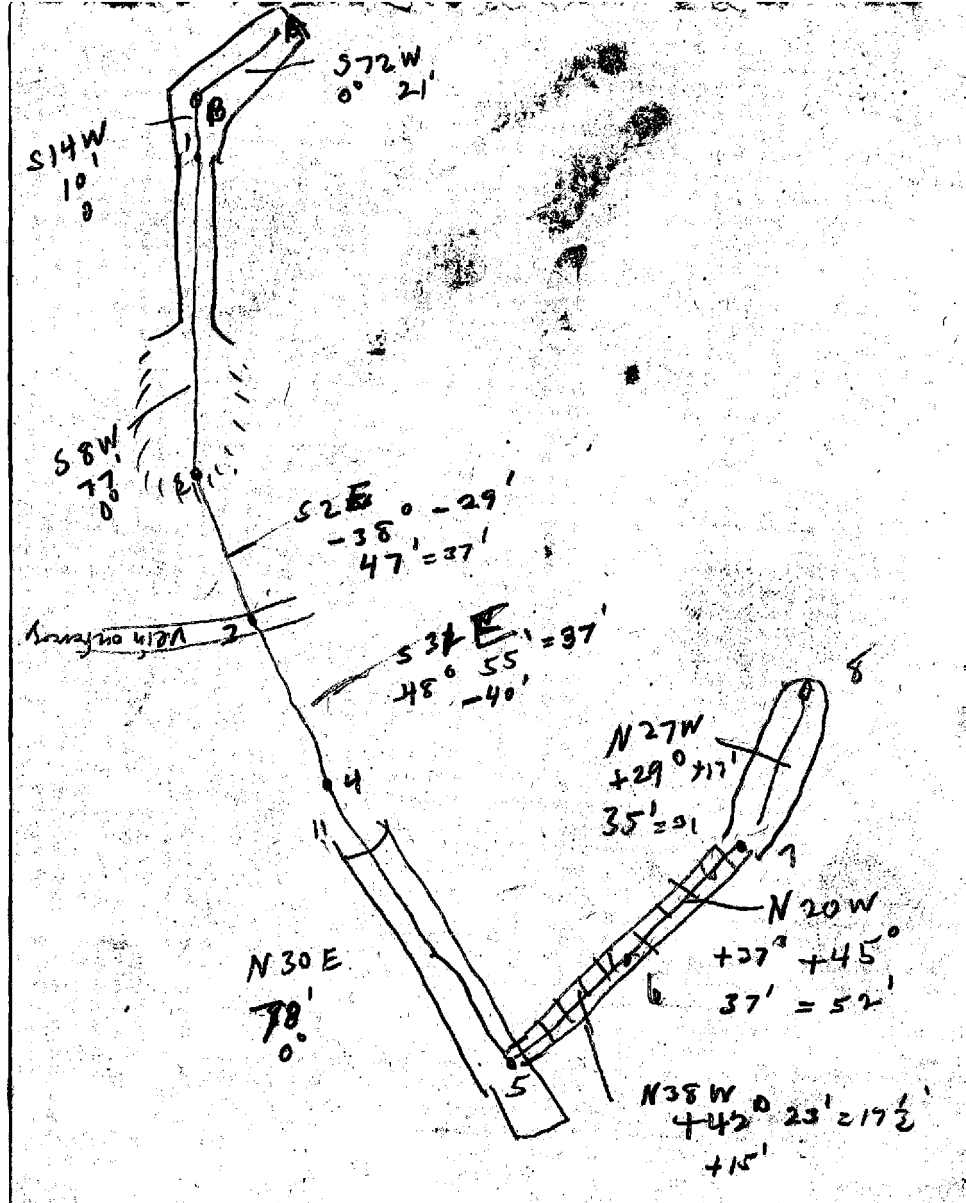
Total cost except mining 5.46

Estimated net profit before mining cost deduction $11.31

	11.31
Mining cost estimated	5.00
Estimated net profit	$6.31
Total estimated net profit on 20,000 tons	$126,200

Sampling Data.

Quote



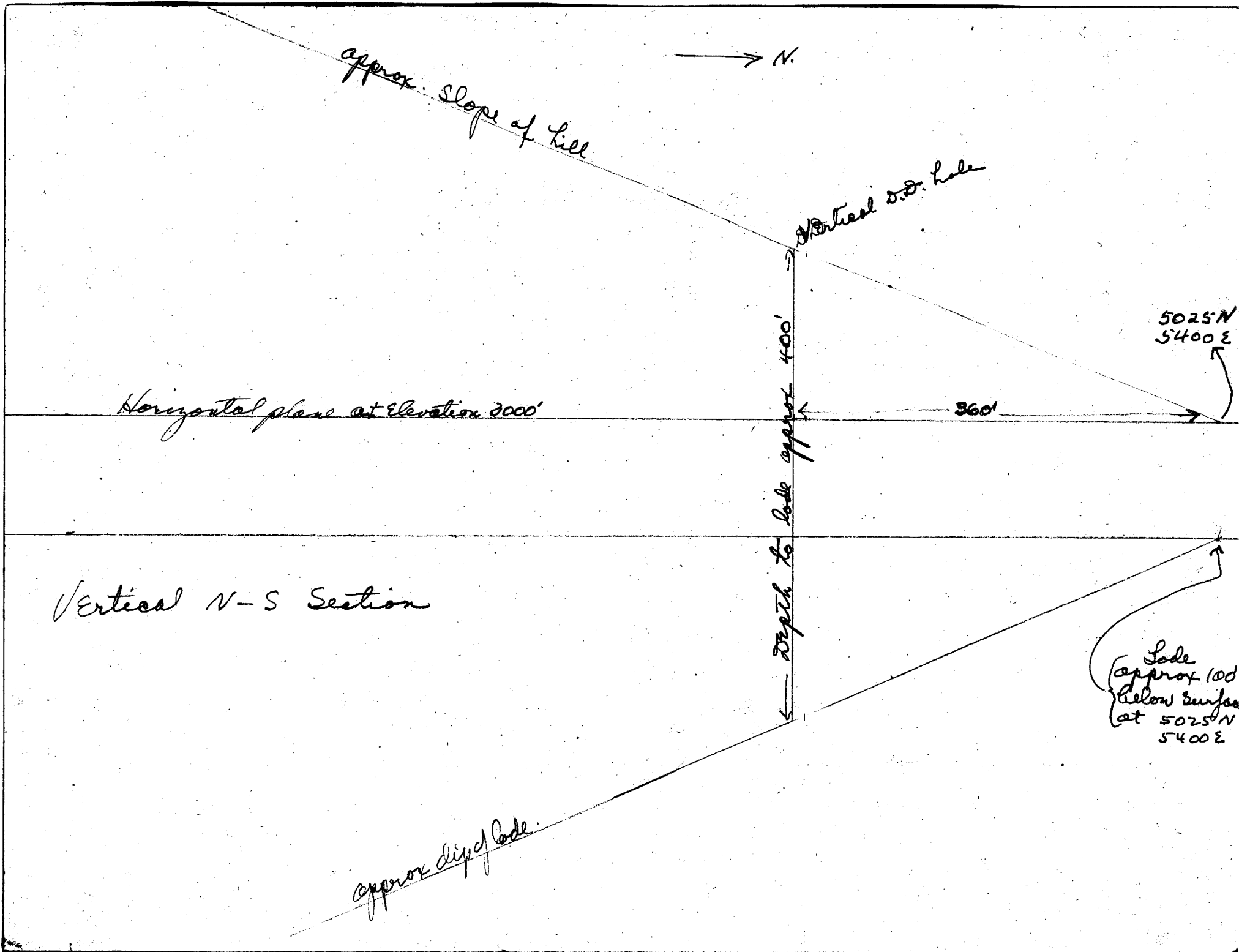
S72W
0° 21'
S14W
10'
0
S8W
77'
0°
S2E
-38° -29'
47' = 37'
Vein outcrop
S31E
48° 55' = 37'
-40'
N27W
+29° +17'
35' = 31
N20W
+37° +45°
37' = 52'
N30E
78'
0°
N38W
+42° 23' = 17½'
+15'

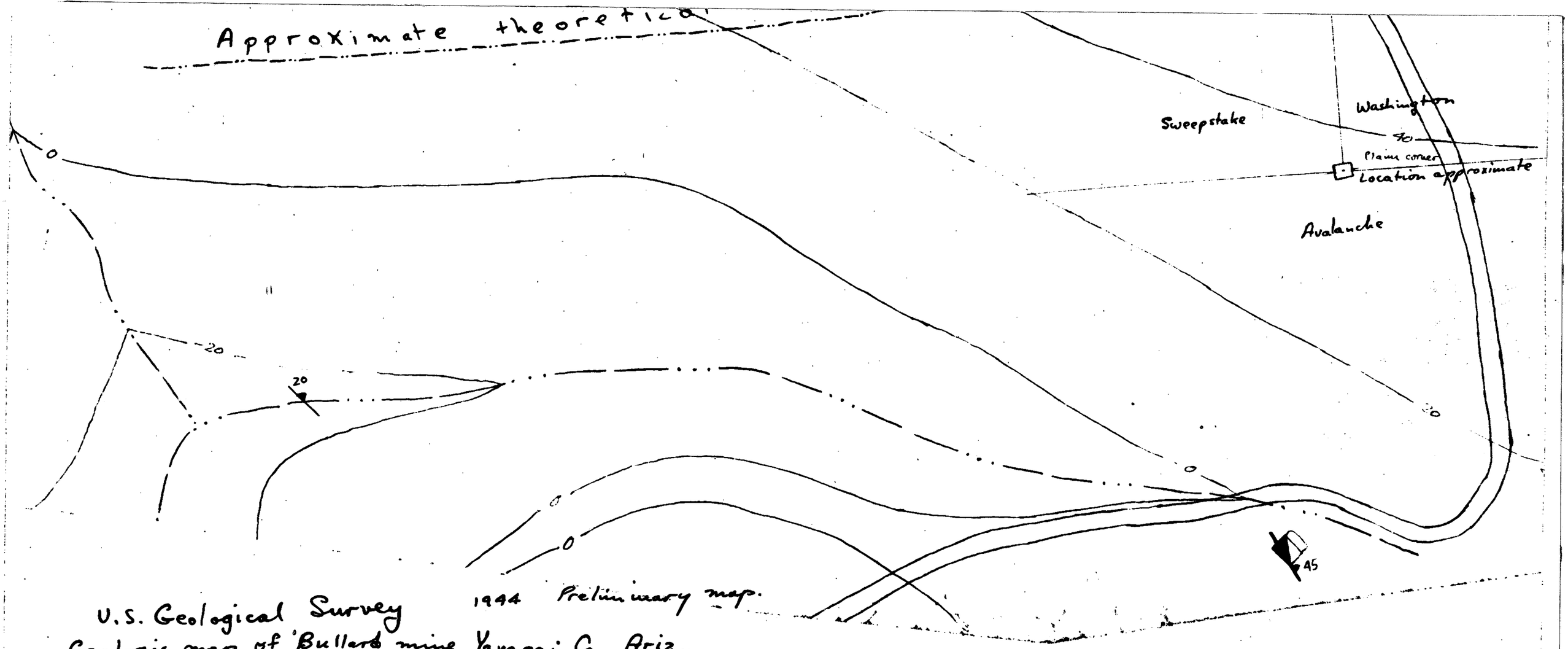
Clarkdale

Car No	Wet tons	Dry Tons	Smelter Oz gold	Concentrator Oz gold		% Cu Smelter	Concentrator % Cu		Net Smelter	Gross Smelter
68A	57.99	56.134	.06	.07	3.368	2.33	2.60	130.792	67.37	5.32 292.63
69A, 70A	101.89	97.122	.04	.06	3.885	2.75	3.07	267.086	142.50	5.77 560.39
71A, 72A	112.25	109.365	.06		6.562	2.33		254.820	155.30	5.69 622.29
73A, 74A	115.99	112.441	.08		8.995	2.30		258.614	188.06	5.91 664.53
75A, 76A	115.53	112.780	.05	.04	5.639	2.50	2.52	281.950	123.25	5.32 599.99
77A	57.17	54.603	.06	.04	3.336	2.51	2.58	139.564	76.45	5.66 314.71
10	560.82 542.445 18.375 3.28% Moisture	542.445	.059		31.785	2.46%		1332.826 Hauling Trans Tax 3% Royalty 10% Net	752.93 560.82 192.11 16.83 175.28 17.53 157.75 $0.29/ton	3060.54 $5.64/ton

Hayden

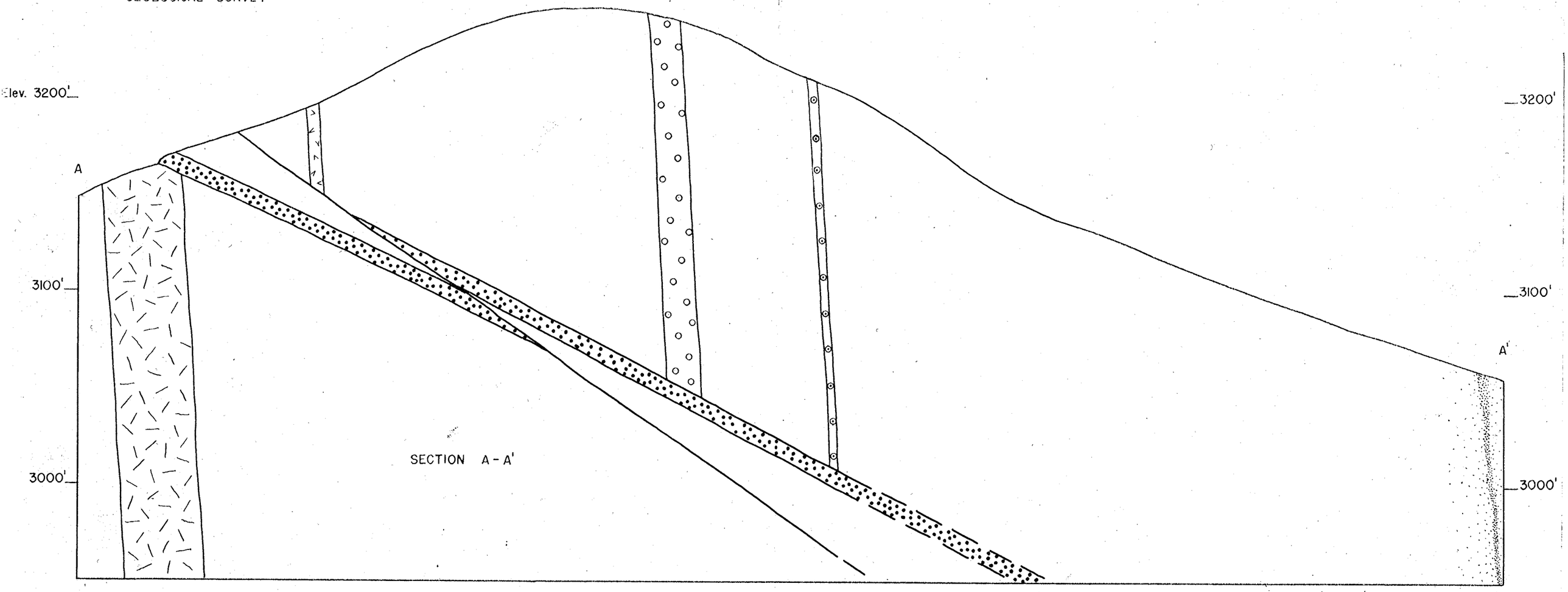
Car No	Wet Tons	Dry Tons	Oz Gold		% Cu		Net Smelter	Gross Smelter	
67 68 69	178.50	168.8090	.106	17.894	2.58	435.527	322.57	7.15	1212.03
70 71 72	173.5500	164.3240	.051	8.388	2.47	405.880	38.00	5.21	856.13
73	60.3300	55.7450	.074	4.125	2.28	127.099	34.27	5.62	313.29
74 75	117.090	111.0630	.038	4.220	2.52	279.879	-19.20	4.88	541.99
76 77	117.0360	110.6515	.046	5.090	2.16	239.007	-38.65	4.52	580.15
11	646.50 610.5925 35.9075 5.55% Moisture	610.5925	.065	39.71	2.44	1487.392	336.99 $0.55/ton $0.55 charge rate	$5.60	3423.61

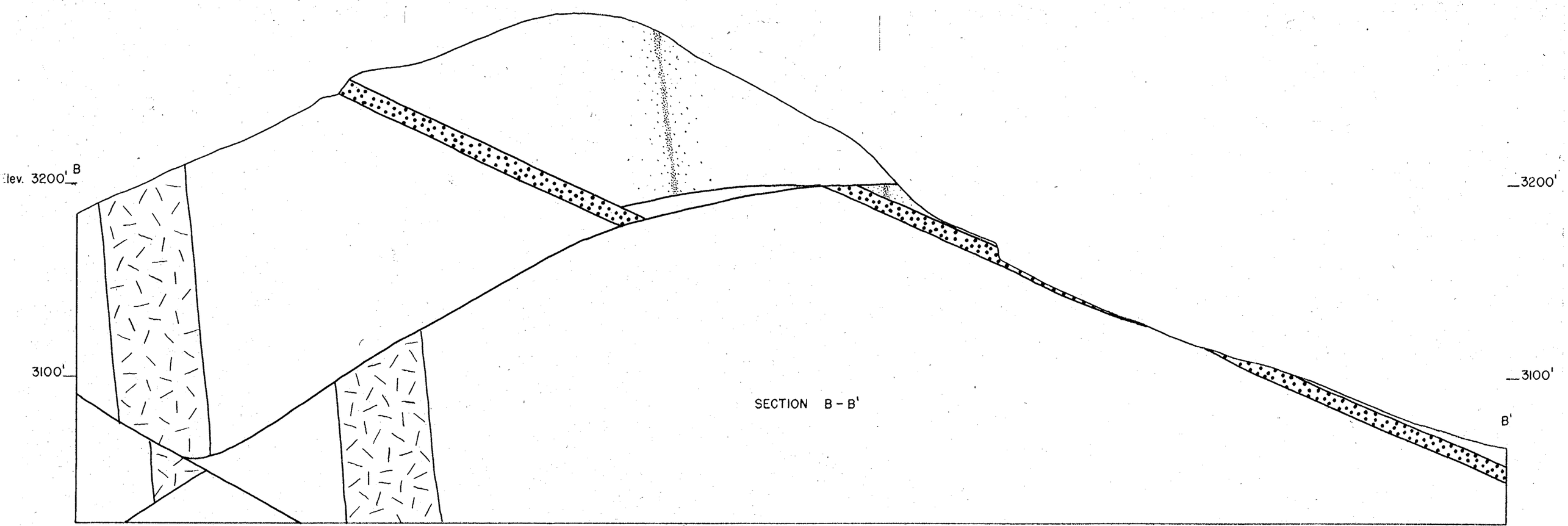

N.
approx. slope of hill
Vertical D.D. hole
5025 N
5400 E
Horizontal plane at Elevation 2000'
360'
Depth to lode approx 400'
Vertical N-S Section
Lode
approx 100'
below surface
at 5025 N
5400 E
approx dip of lode



U.S. Geological Survey 1944 Preliminary map.
Geologic map of Bullard mine, Yavapai Co., Ariz.

or use of U.S. Government only

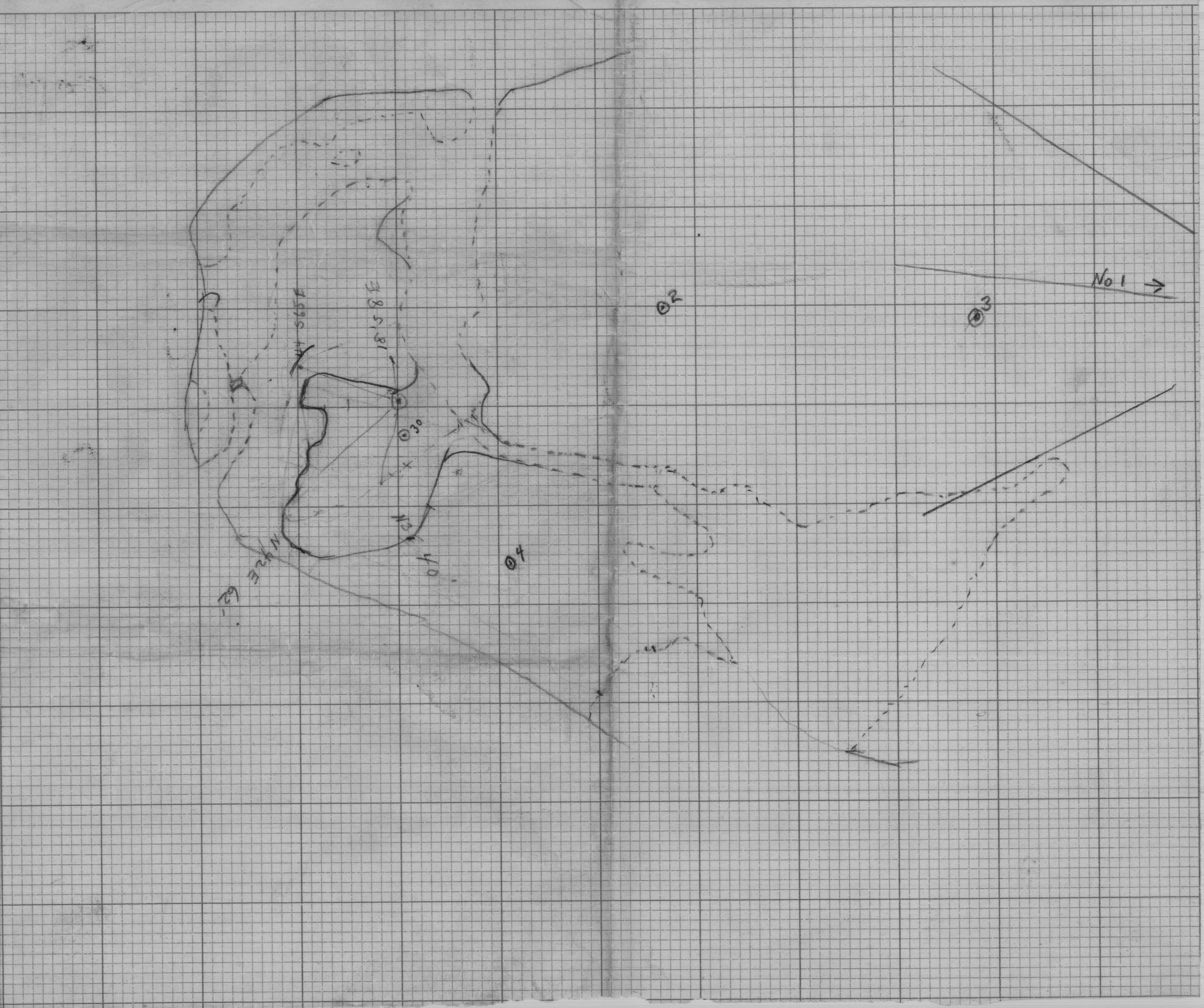


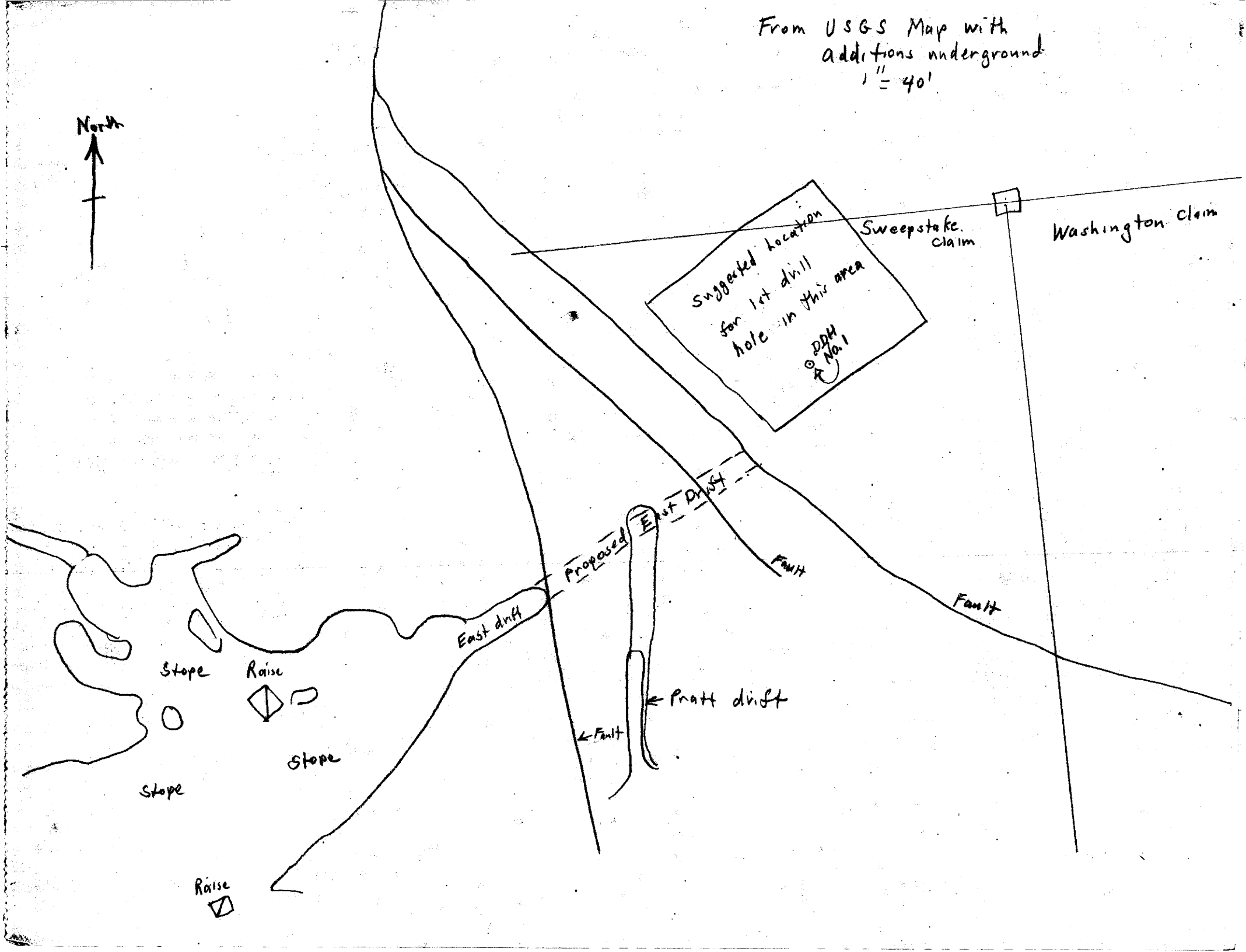


GEOLOGIC SECTIONS, BULLARD MINE, YAVAPAI COUNTY, ARIZONA

0 50 100 200 300 Feet

Explanation some as for geologic map


No 1 →
2
3
4
30
40


From USGS Map with
additions underground
1" = 40'
North
Sweepstake claim
Washington claim
Suggested location
for 1st drill
hole in this area
DDH No. 1
Proposed East Drift
East drift
Fault
Fault
Fault
Pratt drift
Stope
Raise
Stope
Stope
Raise

SUMMARY OF U.S.G.S. REPORT

Re: Bullard Gold Mines, Inc.
Docket No. ND-5391

The stratified rocks exposed in and adjacent to the Bullard Mine comprise lava flows, flow breccias and clastic sediments mixed with pyroclastic material. Small irregular masses of intrusive rock similar in composition to the extrusives are common.

The interbedded series of igneous and sedimentary rocks strike a little north of west and dip steeply southward. The nature of the individual beds of lava and sediment seems to have exerted little, if any, differential effects on ore deposition.

No pattern of ore shoots determined by structure was found.

No intrusive now exposed within the area appears to have been the source of the copper mineralization. The Bullard lode occupies a thrust fault zone. This zone contains several closely-spaced nearly parallel veins.

Development seems to have progressed along but one of those veins in some places. This fact has made difficult the determination of the precise attitude of the lode and of some faults. The lode is cut by four principal and several minor transverse faults. These cross faults have caused horizontal offsets in the ore body of from 150 to 200 feet in places.

The cross faults should present no very difficult problems in mining when the nature of the movements are better understood. Insufficient data was obtained to solve satisfactorily the problem of displacement caused by faulting near 5800 N., 5400 E., and 5500 N., 5900 E.

Outside the map area rocks of the same general character and structure as at the mine are to be found in the small hills surrounding the mine hill. In these outlying areas igneous intrusives are exposed in larger masses than near the mine and a major fault system exists the pattern of which suggests a central igneous intrusive of considerable magnitude. Exploratory drilling in the area lying generally south of the mine should furnish data that will throw light upon the following.

1. The total underground extent of the Bullard lode.
2. The physical characters of the lode - especially its thickness, continuity, distribution and grade of mineralization.
3. The possible occurrences of other veins or lodes.
4. The effect of the known faults and the occurrence and effect of other faults, if any exist.
5. The depth of the zone of oxidation.
6. Whether oxidation has resulted in enrichment of the primary mineralization or has resulted in leaching.
7. The possible existence of an intrusive containing disseminated ore.
8. The possible existence of an enriched supergene sulphide zone.

A few contours at 100 foot intervals that represent elevations of the base of the lode have been drawn in red on the mine map. These contours are generalized and are not drawn across the fault zone in the central part of the area since the precise nature of movement on these faults is in some doubt. The contours were not continued

farther to the East because of lack of accurate data on dip and strike of the lode in that part of the area, although it is believed that the dip is considerably steeper there.

An example of a drill hole that might reveal the existence of a supergene sulphide zone, if one exists, is as follows:

Location - 360' south of 5025 N., 5400 E.
Angle with horizontal - 90°
Depth of intersection of lode - approximately 400'

These calculations are based on the assumption that the dip and strike of the lode remain fairly constant south of the mine, that the north slope of the hill to the south of the mine hill is approximately the same as the south slope of the mine hill and that the zone of oxidation is not deeper than 400'. See accompanying sketch. Should the oxidized zone extend deeper than 400', a hole farther south could be used to test it. If less deep, a hole farther north would accomplish the same.

When the nature of the lode adjacent to and below the oxidized zone has been tested and it be found to be ore its total extent should be determined.

Deeper drilling should be employed to explore for deeper lodes or the possible presence of an igneous mass with disseminated ores.

Mr W. B. Maitland
Supervising Engineer
Reconstruction Finance Corp.
325 Heard Bldg.
Phoenix, Arizona

Dear Mr Maitland:

The formal report for Washington is still incomplete much to my disgust. In lieu of it I am sending you the accompanying brief statements in the form of a personal letter and in no sense as a formal report. In doing this I may escape the consequences of giving out unauthorized information.

I have suggested the location of only one drill hole knowing that you and the bureau are perfectly capable of laying out a drilling program with the data shown on our geological map available and knowing the problems involved.

My only excuse for not sending you this material earlier is that I did expect to finish my report for Washington by this time or long before. We have all the data we ever will have but it just isn't in its finished state yet.

You are a very patient man.

Best of luck in your ventures and remember that I still would like to hear about your results.

Very truly yours

J J Stamper

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BRECCIAS

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Deeper drilling should be employed to explore for deeper lodes or the possible presence of an igneous mass with disseminated ores.

~~927.54~~
~~904.36~~
~~18.18~~

03
32
.96
1.71
3.38
6.05
4.50
1.50

1.40 28 20
95 8
1 19.0
9
1.71

28
26
13
78
26
338

3.50
1.00

~~89.36~~
~~633.18~~

11.88

900.00
1731.01
726899

7000.00
6137.14
862.86

June 7, 1943

W. B. Gohring:

Re: Bullard Gold Mines - ND-5391

As requested by you, I have recalculated the smelter schedule and payments for the ore from this project, based upon the new smelter rate granted the Bullard Mines by Mr. Brent Rickard of the American Smelting & Refining Company.

This new smelter rate makes the profit considerably greater on this ore and I believe that in spite of the present high cost of labor and materials, that this property could repay a $15,000.00 Loan.

~~At the time of my visit to the mine, I was very favorably impressed with the ore showings and I am a little at a loss to understand why the Loan was not approved. In my opinion, this mine made a much better showing than many of the other mines I have looked at and upon which Loans have been granted.~~

While the vein is not wide, and has a very flat dip, the hanging wall is very competent and the ore breaks clean from the walls so that a minimum dilution from waste rock could be expected and by careful mining, I believe that ore could be mined for less than $4.00 per ton, as estimated by Mr. Rickard.

The applicant has already shipped 150 cars of ore which averaged ~~considerably~~ higher in gold and copper than the average of my samples.

The biggest difficulty in the past in the operation of this project has apparently been the lack of capital on the part of the Bullard Mines to adequately develop and equip the property and the lack of a good superintendent to outline a low-cost mining system.

It is my opinion that by the use of foot-wall haulage drifts, raises up to the ore at proper intervals and the instalation of a slusher at the top of these transfer raises, the ore could be mined cheaply and a large and continuous production of ore could be obtained.

As stated in my original report I felt that a loan was justified for this project and on the basis of the new smelter rate I feel more strongly that a loan is warranted.

~~For the reasons enumerated above, I feel that a loan on this project is justified~~, especially since all the Engineers who have examined this property estimate that there is at least a million pounds of copper in sight on the one vein the applicant proposes to work. There are also other veins that have not been sampled which also could produce considerable copper ore.

Wm. B Mathews

W.B.M.

Docket No Phoenix B356
Date authorization for
Examination Received Feb 4, 1943
Date of Examination Mar 4, 1943
Date of Report March 15, 1943

1. Name and Address of Applicant
Name - Bullard Gold Mines Inc.
address - 404 Heard Bldg
City + State - Phoenix, Ariz
Correspondent - J. P. Smith, Vice Pres.

2. Character of Project
To place on production a copper, gold mine that will ship ~~ore to~~ flotation ore to a smelter

3. Location of mine - Bullard Mine
Township, range, ~~sect~~ - T 8 N, R 10 W, G + S R. B + M.
County + State - Pierce Mining District, Yavapai Co, Arizona
Nearest + distance by road nearest railway station. -
a quite a town on the Santa Fe Railroad is nine miles by road, south east of the mine

(1)

Condition and seasonal accessibility of road, mine to railway - a good graded dirt road connects the mine with the railroad loading point and this road should be accessible at all times of the year.

4 Applicant

The applicant company ~~is~~ composed of local business men ~~and the corporation~~ is headed by J. P. Smith a Phoenix business man who has had no experience in mining. For the past three years this company under the sole managment of Smith has intermittently operated this property with but indifferent success as Smith employed no competent mining man to supervise the work.

It is my opinion that if a loan is granted this project it should be contingent upon the applicant having a competent superintendent, acceptable to this office, and placing him in complete charge of operations. Mr. Smith seems sincere in his endeavor to make a success of this mine but in the past he has depended upon non-mining men for advice and as a result has been unsuccessful.

5 Loan Requested

After thoroughly discussing the project with Mr. Smith he has agreed that $15,000 will be sufficient to put the property on production

(2)

(6) Description of Project

Legal Considerations

A copy of the lease accompanying the application states that a minimum royalty of $300 per month is required. Mr. Smith has informed me that a group ~~some~~ of the stockholders of his company will guarantee

payment of this fixed royalty demand if the royalty from ore shipped does not amount to $300 per month. He understands that loan funds cannot be used to make property payments and is willing to ~~draw up~~ sign any agreement satisfactory to the R.F.C. He does not think it possible to have the claim owners waive these payments as the property is owned by a number of heirs of the original owner.

It should also be noted that the corporation owes three of the stockholders the total sum of $17,410.94 on money advanced the corporation. Mr. Smith informed me that these creditors would sign stand-off agreements for the life of the loan.

No other legal deficiencies were noted.

Operating Development

The G.S and R. map accompanying the application shows in some detail the development work to date on this mine. A small sketch map by this engineer also accompanies this report and shows the ~~ot~~ section of the vein that will be mined under the proposed loan.

(3) Briefly the mine consists of a ~~gold~~, ~~copper~~ fissure vein dipping 15° to the south and exposed by erosion on three sides since the vein outcrop extends around the east, north, and west sides of a small hill. The vein has been developed by a large number of small shafts, drifts, and open cuts on this outcrop. The deepest work is

only 200 feet below the surface as all work ~~in the past~~ has been done by "leasers" and
66.6 small operators who only attempted to mine readily accessible surface ore. ~~Devel~~ Proper development of this property has been held up ~~due~~ in the past due to the fact that for the last 50 years the mine owner has demanded ~~an~~ ~~exorb~~ fabulous price for his mine so all of the large copper companies refused to ~~operate~~ consider buying the property.

The applicant company has driven a 100 foot footwall drift under the vein and by means of a 67 foot raise near the face of this tunnel have cut ~~out~~ the vein above. Work under this loan will be ~~done~~ started thru this raise.

Geology and Ore Reserves

There are five veins exposed on this property and a small amount of work has been done on all of these veins. The largest vein is the Home Vein which is the only one under consideration in this report. This vein can be traced on the surface for a distance of over 2500 feet.

The country rock consists of surface andesite flows and andesitic tuffs. Undetermined granitic
(4) rocks are also found in this area. The vein is of the fissure type containing quartz, ~~and~~ calcite, and hematite with ore minerals of chrysocolla, cuprite, azurite, malachite, free gold, and silver. Chrysocolla is the predominant copper mineral. There are indications that sulfide minerals such as chalcopyrite and pyrite will be found at depth.

The vein is very regular both as to strike and width. The average strike is N55E and the dip ~~is approx~~ ranges from 15° to 20° to the south.

Below is a recapitulation of the sampling records and shipments from this property. Attached to the application are copies of all of these reports and maps that describe the mine in detail

Date	Sampler or Shipper	Tonnage estimated or shipped	No of Samples	Average Width of Vein	Gold assay average	Copper assay average	Method of Computation
1910 (?)	E.W. Durfee, E.M Report + Map.	43,700 tons	58	2.48 feet	0.10 oz	2.89%	Weighted average
1912 + 1919	Amer. Smelt. + Refining. Reports	25,000 tons	43	2.50	0.25	2.67	" "
1931	J.V. Mc Connell + R.T. Mishler Report El Tigre Co.	25,000	67	3.50	0.197	2.66	" "
1936-1943	Ore shipments	10,608.311	—	—	0.39	2.32	Numerical average of 150 cars
1943	Geo. M. Colvocoresses Report	20,000.	No stated.	3.00	0.22	2.50	Source of figures not definite
Average of Above		—	—	2.87	0.23 oz	2.61%	Numerical average of above
1943	Wm B Maitland Report RFC.	20,000	11	3.2 ft	0.20	2.63	Weighted average

Quote

The American Smelting and Refining Co have analyzed this ore and give the following composition: 78.2% chrysotile, 73.0% silica, 6.8% iron, 0.6% Calcium oxide, 4.6% Al_2O_3, and a trace of sulfur. This is ideal flux ore and should obtain a favorable smelter rate

Based upon the average assay value of the ore as shown by my samples (0.20 oz gold, 2.63% copper) we have the following calculations:-

5

Smelter Payments per ton (Hayden, Ariz. A.S.+R. Smelter)

Gold 0.20 oz. x $32.31825 = $6.46

Copper 2.63% x 2000 lbs = 52.6 lbs - 8.0 lbs = 44.6 lb x 95% x $0.0905 = 3.83

Premium Payments

Copper 2.63% x 2000 lbs x 97% x $0.05/lb = 2.55

Total value of ore per ton at smelter $ 12.84

Charges per ton

Smelting Base charge $3.50

Truck haulage 10 miles to Aguila 1.50

Rat. Aguila to Hayden $15 ore 2.54

Royalty 10% of $5.30 .53

Total charges 7 8.07

Net profit per ton before deduction for mining costs $4.77

Estimated mining cost per ton 2.77

Estimated net profit per ton before taxes $2.00

11 775
2.6
9.175

Since this is a siliceous flux ore I believe that the Hayden Smelter would reduce the smelting rate from $3.50 to $2.50 thus increasing the net profit by $1.00. Also by some picking of the ore I believe that the grade of ore shipped could be raised thus increasing the net profit by a small amount.

Mining Methods

The above estimated mining cost of $2.77 per ton needs some explanation because it is lower than that found obtained at most mines using loan funds. It is proposed to start mining thru the applicants 100 foot footwall drift and raise. Since the vein is fairly flat the ore should be handled by means of a slusher to muck the ore into the raise.

(6)

The vein can be mined by room and pillar methods since the hanging wall stands extremely well. Narrow or low grade portions of the vein should be left as pillars and where necessary rock wall pillars of broken waste can be used thus eliminating high timber costs and allowing broken waste to be left in the stope. With an air-powered slusher or scraper mounted at the head of the raise the ore can be mined for a radius of 80 feet from the raise. After this block of ore of approximately 3500 tons has been mined the footwall drift can be advanced and another raise driven up to the vein ore to mine a new block of ore.

Plan of Operations

It is planned to work two shifts and ship 60 tons of ore per day to the smelter.

Since all road work, track, 40 ton bin, and powder magazine are already completed the property should be in production within 30 days after work begins.

It is planned to hire the following men for this project:

(7)

1 compressor man	$7.20/day
1 trammer	6.50
1 slusher man	7.20
4 miners	$7.20 each

7 men per shift or 14 men per day plus -
1 superintendent at $200 per month
1 foreman @ $8/day.

On the basis of 60 tons per day for 6 days per week the property should produce 1440 tons per month which should show a net profit of $2 per ton or $2880 per month. The loan should easily be repaid within 9 months of the start of operations.

360
4
1440

17280

Aside from cars, track and hand tools there is little usable equipment now on the property. The compressor and jackhammers now owned by the applicant are too old and badly worn to be considered in the operation.

There are four houses now on the ~~property~~ claims that can be repaired for a camp. In addition a water well near the ~~camp~~ can be used to furnish domestic water. ~~for the camp~~.

For the ~~preliminary~~ first few months of ore shipments the applicant plans to contract for the hauling of ore from the mine to Aguila, the nearest shipping point.

Estimated Cost of Project

Equipment

Used Compressor, gasoline motor driven 310 cu ft	$2500
2 automatic stopers @ $365 each	730
2 mounted jackhammers, with 1 column + arm	550
1 ~~used~~ pickup truck	1000
1 air powered double drum slusher	1000
air hose, fits, steel, etc	250
Re-line and repair ore bin	200
Repair camp buildings	500
	$6730.00

(8)

Working Capital for (2 months)	$5000
Reserve for contingencies	3270
Total for loan	$15,000.00

Objections to Project

The chief objection to this project is the low copper content (2.63%) which makes this a marginal mine at present high material and labor costs.

Another objection to the project is the fact that the vein is very flat (15°-20°) so that broken ore will not ~~flow~~ run by gravity but will have to be scraped by machine into the ore-passes.

Comments of Supervising Engineer

As shown by the accompanying maps and reports this property has attracted many of the big mining companies but due to the unreasonable demands of the owner in the past the property was never worked except by small lessees.

It is apparent from the enclosed maps that the Home Vein alone contains at least 20,000 tons of ore containing 52 lbs of copper per ton of ore making a gross of 1,040,000 lbs of copper which ~~is~~ would be a valuable addition to our national copper production.

5 26

This property will not require an expensive amount of equipment but will require the services of at least 15 men plus a competent superintendent

(9)

After studying the accompanying A.S. and R. Map of the vein it is obvious in my opinion that

the mine warrants a large scale development program as this property under proper direction could produce 200 tons of copper ore per day.

The applicant company has operated this property for some years but ~~they have not operated the property~~ their mining methods have been ~~of the wrong~~ primitive and costly. and as a result the applicant has ~~not made~~ lost money on the mine. Mr Smith the manager of the company knows nothing about mining so had to depend upon the advice of impractical managers. For this reason I believe the loan should be limited to $15,000 inorder to allow the applicant company to demonstrate that with proper equipment and financing they can make the project pay. In this way the R.F.C. will not risk a large amount of money until this fact has been demonstrated. I also believe that one of the conditions under which a loan is granted should be that the applicant place in full charge a competent superintendent acceptable to this office. Aside from the salary of such a superintendent there should be ~~allowed~~ permitted no other salaries chargeable to overhead.

If this project is operated under sound mining ~~direction~~ supervision I believe a loan is justified as the mine ~~will~~ should then become a substantial producer of siliceous copper ore ~~required~~ needed by the smelters for fluxing.

(18)

Wm B Mantled
Sumper Eng

Equipment

Compressor 310 cu ft	$ 2500	
2 Stopers @ $365	$730	
2 Mounted jackhammers @ $275, column + Bar	$550	
Pickup Truck	$1800	
air hose fits, steel	$ 250	
1 slusher	$ 1000	
Line + repair ore bin	$ 200	
Repair camp	500	
		$ 6730
Incidentals		270
Equipment Total		$ 7000
Working capital (2 months)		5000
~~Total of loan~~		$ 12,000
Reserve for contingencies		3,000
Total for loan		$15,000.

Hauling $1.50/ton 10 miles

1 surface man	$6.20	1 supt	$2.00
1 trammer	6.50	1 foreman	$8
2 shacker men	7.20		
4 miners	7.20	56.20	
7 men on shift	28.10	8.00	
14 men on 2 shifts		64.20	
		8	

No	Width	oz Au		% Cu	
1	4'	0.20	.80	4.20	16.80
2	6"	0.50	3.00	3.00 (9.25)	55.50
3	5	0.08	.40	1.95	9.75
4	3½	0.06	21	3.10	10.85
5	2½	06	15	1.25	3.13
6	2½	12	.30	2.40	6.00
7	2	22	.44	4.25	8.50
8	2	04	08	1.95	3.90
9	2	56	1.12	1.80	3.60
10	3	10	.30	2.00	6.00
11	3	12	.36	2.25	6.75
11	35.5 / 3.2'	0.20 oz	7.16	(3.68%) 2.63%	130.78

355.50
18.00
37.50

28.10
2
5~~6~~ 20
8
8
72.00
7
79
80.00

80) 60

1.30
6) 80^2

129
21
150

73.0
4.6

1912 + 1919 ~~25~~,000 tons	A S + R	Au 0.25	Cu 2.67	Ins. 78.2	43 samples	2.5'	SiO_2 73.0%
1900(?) 42,100 tons	E. W. Durfee	Au $7.34 $20.67	Cu 2.95	49 samples	3.04'		
1600		$12.47 $20.67	2.83	9 "	1.92'		
43,700		0.00	2.89	58 samples	~~2.50~~ 2.48'	4.96	
1931 25,000 tons	J. V. McConnell R. T. Mishler Cl Tigre Co	Au 0.197	Cu 2.66	3.5'	67 samples		
1943 20,000	Geo M. Colvocoresses	0.22	2.50	3.0'	No given		
1943 15,000 tons	Maitland	0.20	~~3.68~~ 2.63	3.2'	11 samples		
10,608.311	1936-1943 Ore shipments	0.39	2.32	150 cars	numerical average		
		0.23	2.61	average..			

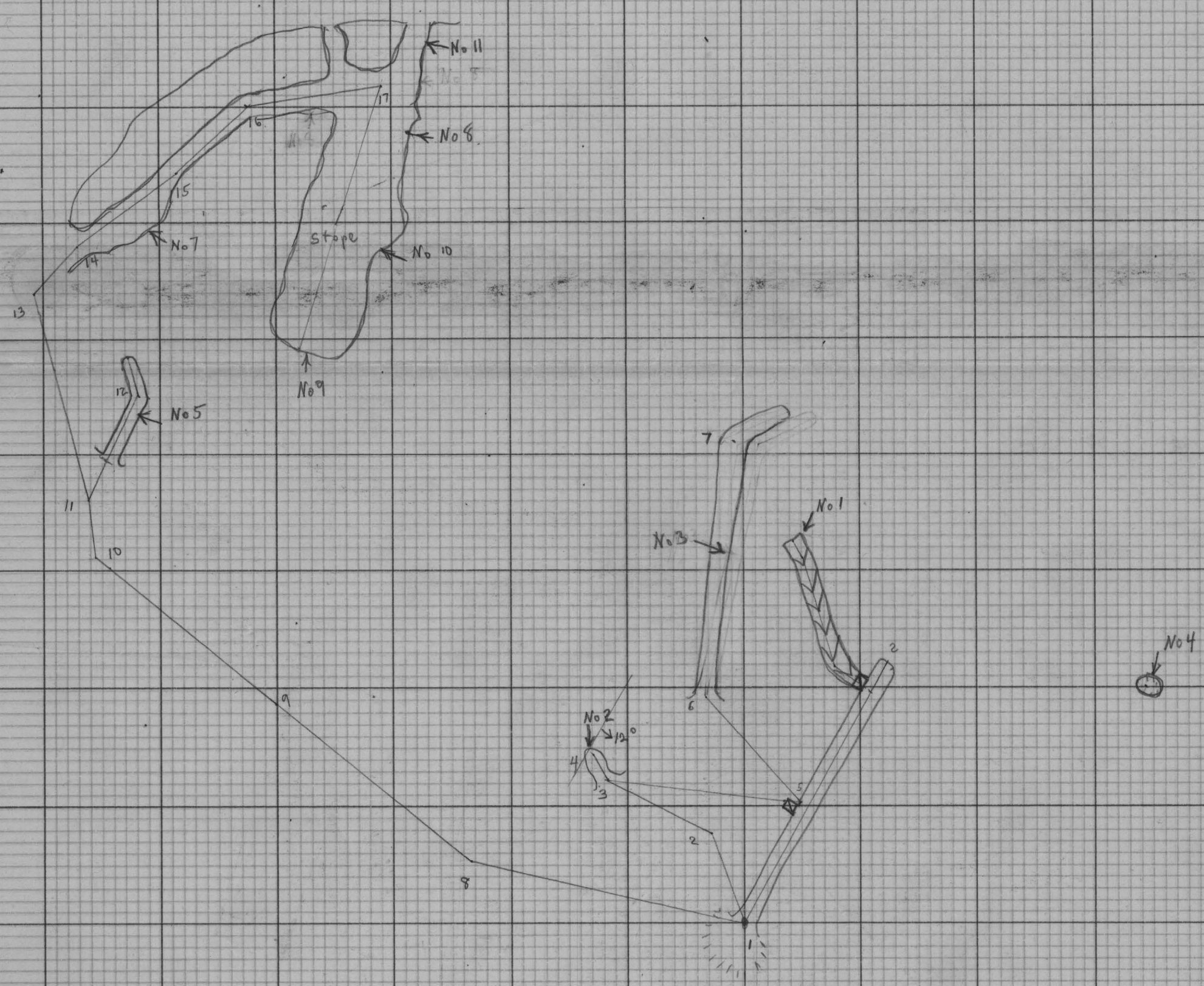
surface andesite rock + andesite tuff + granitic intrusions
Fissure vein
qtz, calcite, chrysocolla, cuprite, azurite
hematite malachite
1500'

5 different veins
prob sulfides at depth

$\sqrt{57.7}$ 2500' of outcrop exposed

19.81

8
2.87
4 $\sqrt{18.48}$


No 11
No 6
No 7
No 10
No 9
No 5
No 1
No 3
No 2
No 4
Stope
12°
1" = 40'

Property _____ Docket No. _____ Date _____

From	To	Bearing	Sl. D.	V.A.	Cos.	Sine	H.D.	V.D.	Elev.	
1	2	N29°E					102.00	0		to face drift
℄ M	Top Man	N54°W	17.7	+47°			12.1	12.9		Bulkhead,
T M	Top Raise	N16° W	58.7	+48°30			38.9	44.0		To Brow -
T. R	face	N28° W	13.0	+48°			8.7	9.7		
1	#2 2	N20°W	48.0'	+47°			32.7	35.1		to top of cliff above tunnel
#2	3	N63°W					39.6'	0		portal tunnel
3	4	N29°W					9.0	0		face small portal slope
3	℄ #2 chute	S83°E					61.0	0		
3	5	S83°E					66.6	0		Rig #2 chute
5	6	N42°W	56.7	+30°-			49.1	28.4		
6	7	N5°E	~~87.7~~				87.7	0		
7	℄ face	N67°E					22.E	0		
1	8	N77°W	98.8	+13°30'			96.1	23.1		

Remarks: #1 + 90.7 ℄ Manway -
1 + 42 - ℄ #2 chute to surface -
#2 + 2½ feet to level measurement,

Property _____ Docket No. _____ Date _____

From	To	Bearing	Sl. D.	V.A.	Cos.	Sine	H.D.	V.D.	Elev.	
8	9	N 51° W	96.2	+27°50'			86.8	45.9		
9	10	N 51° W	87.2	+24°00'			79.7	35.5		
10	11	N 7° W	22.7	+31°0	—		19.5	11.7		
11	12	N 25° E					40.4	0		
12	Face	N 15° W					13.1	0		
11	13	N 15° W	79.3	+21°0'			74.0	28.4		
13	14	N 43° E	24.7	+31°0			21.2	12.7		
14	15	N 54° E					42.0	0		
15	16	N 48° E					32.7	0		
16	17	N 82° E					47.0'	0		

Remarks: #11 on Level of Recent Works
#11 + 15' Edge of Cliff out crop.
12 To face of abd drift + chute.
14 on Upper dump —

Mr Landon F. Strobel
Executive Sec., Quota Committee
Premium Price Plan for Copper
War Production Board Dept 7103
Washington D.C.

"Re: "Ballard Gold Mines Inc

140,000
.02
2800

Dear Sir:-

We are operating the above captioned gold-copper-silicious mine under an R.F.C. loan and we have already been granted a special copper premium of 7.7¢ per pound. However after operating the mine for four months we find that the present price we now receive for our copper ore ~~is not sufficient to~~ does not produce a sufficient revenue to allow us to maintain adequate development work ahead of stoping operations.

42
3200

10

Following is a resumé of our operations to date:-

Month	Tonnage Dry short	oz gold	% Copper	Smelter net payment including premiums	Payroll Mining	Supplies Mining	Net profit or loss
Nov	255.21	0.157	2.05	$1940.53	1622.168	478.12	159.75
Dec	644.85	0.103	1.94	3359.93	2393.54	600.69	365.70
Jan	616.47	0.078	2.11	3280.27	1770.46	595.30	914.51
Feb	378.80	0.086	2.06	2088.35	1668.03	760.97	340.65
Total	1895.33	0.094	2.03	$10,669.08	7454.19	2435.08	779.81

We have not been abled to do any development work as the ore shipped to date was too low grade to furnish ~~the addl~~ funds necessary to properly ~~open up the mine~~ develop the ore ahead of stoping. It has conservatively been estimated that the vein contains a minimum of 20,000 tons of probable ore so it is obvious that the mine will produce in the future a large tonnage of copper ore running over 76 % in silica which is greatly desired by the Hayden Smelter.

On February 1st we changed superintendents and the mine is now under the direction of Mr Joseph P. Klein who has greatly improved the efficiency of the operation and during the first ten days of March ~~a~~ has shipped 8 cars of ore to the smelter and expects to ship 25 cars per month in the future if he can properly develop the mine ahead of the stoping operations.

Therefore we respectfully request that you review our premium status and grant us a special premium of 10 ¢ per pound instead of the 7.7 ¢ per pound, retroactive to November 1st 1943. This additional premium would allow us to ship a larger tonnage of siliceous copper ore and do the necessary development work under to assure a steady production in the future.

Sincerely yours.

325 Heard Building
Phoenix, Arizona
June 21, 1944

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

Re: Bullard Gold Mines - ND-5391

Enclosed please find my Progress Report, in duplicate, under the above captioned project.

WILLIAM B. MAITLAND
Supervising Engineer

WBM:EP
Enc. Report in Duplicate

RECONSTRUCTION FINANCE CORPORATION
MINING SECTION

PROGRESS REPORT

Bullard Gold Mines, Inc.
Docket No. ND-5391
June 21, 1944

On June 19, 1944, I visited the above captioned project in order to report on the work in progress.

Since my last report covering the progress up to the end of March the following production and expenditures for April and May have been made (not including capital investments):-

Item	April	May
Ore production dry tons	1695.6295	850.604
Ounces gold per ton	0.063	0.036
% Copper	2.40	1.75
Gross pounds of copper	81,629	29,871
Net value of ore per ton before deducting mining costs	$7.42	$ 3.54
Total Mining labor cost per ton	1.92	2.48
" " supplies " " "	0.41	1.29
" " Misc. " " "	0.83	0.94
Total direct mining cost per ton	3.16	4.71
Net mining profit or loss per ton	4.26	-1.17

During April the production came from the stoping of a large lense of ore found in the No. 2 Stope on the southwest part of the vein while in May most of the ore came from development work and from cleaning up the old stopes.

During June most of the work has been development work so the ore produced will probably be of lower grade and less in quantity than for the previous month. The applicant is driving a connection thru the hill to connect the No. 2 Stope with an old stope on the north side. This connection should be completed during June so that for July a steady production of a car of ore per day should be resumed.

In addition the applicant has started a new operation in an old shaft on the north side of the hill but on the same vein. The vein here is narrow but high grade and it is expected that this shaft will produce about one car load of ore per week with the four men now employed there.

WILLIAM B. MAITLAND
Supervising Engineer

WBM:EP

Apr May

Progress Report

Bullard Gold Mines Ltd
NO 5391
June 21, 1944

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" " misc. " " "	0.83	0.94
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During June most of the work has been development work so the ore produced will be ~~when~~ primarily of lower grade and less in quantity than for the previous month. The applicant is driving a connection thru the hill to connect the No 2 Stope with ~~the~~ an old stope on the north side. This connection should be completed during June so that for July a steady production of a car of ore per day should be resumed.

In addition the applicant has started a new operation in an old shaft on the north side of the hill but on the same vein. ~~as the previous work was done~~. The vein here is narrow but high grade and it is expected that this shaft will produce about one car load of ore per week with the four men now employed there.

Wm B Mathed

325 Heard Bldg.
Phoenix, Arizona
May 13, 1944

TULLY - Asst. Chief - Mining Section RFC - Washington

Re: Bullard Gold Mines, Inc. - Docket No. ND-5391

Enclosed please find in duplicate, my "Progress Report" on the above captioned docket.

WILLIAM B. MAITLAND
Supervising Engineer

WBM:MHW
Encs.
"Progress Report"
in duplicate

To be returned
RBS.

RECONSTRUCTION FINANCE CORPORATION
MINING DIVISION
PROGRESS REPORT OF SUPERVISING ENGINEER

Bullard Gold Mines Inc.
Docket No. ND-5391
Date of Report: May 12, 1944

Following is a report on the progress being made at the Bullard Mine. The date of my last visit to this property was May 2, 1944.

Attached hereto is a Production Report on ore shipped to the Hayden Smelter from Nov. 1943 to March, 1944, inclusive, and a statement of mining cost and net profit for this same period. Also enclosed is a map of the mine showing the various samples taken and the areas of the vein that have been stoped.

The U.S.G.S. has just completed a detailed study of the geology of the mine and in the near future these data should be available.

The Hayden Smelter has reduced the tonnage of Bullard ore they will accept to 500 tons per month but the Phelps Dodge Clarkdale Smelter has agreed to take 100 tons per day altho the freight rate to Clarkdale is $0.55 cheaper per ton and the smelter rate $1.00 per ton more than at Hayden.

The mine started shipping in November, 1943, so all funds spent in the first month of operation which was October, 1943, were considered as capital investment. These items are:

Payroll	1020.90
Equipment purchased	4101.95
Road construction	176.00
Office expense	30.00
Interest on Loan	48.76
Bank fees	12.50
Industrial insurance	77.75
Auto expense	35.00
Total	$ 5502.86

Mr. George French was in charge of operations at the mine until the end of January and after that time Mr. Joe Klein was Superintendent. Under Mr. Klein there has been a marked improvement both in regard to cost and gross production. During April the Bullard Mine was the largest producer under a mine loan from this office in regard to tonnage of ore, ounces of gold, and pounds of copper.

The balance in the depository bank as of May 9th was $6,958.82, and of this date there were 9 cars in transit representing another $3,000, approximately. Effective March 1st, the special premium on copper was raised from 7.7¢ to 10¢ per pound so that now a lower grade of ore can be mined at a profit than heretofore. For this project there has been purchased $8,037.57 worth of equipment with an unpaid balance due of approximately $1200. In order to reduce the mining cost the project

has been mechanized as much as possible; a room and pillar method of mining has been adopted; and after the ore is broken, it is slushed into raises by scrapers, powered by air tuggers. The ground stands very well, although bit and powder consumption has been high since the ore is hard and abrasive.

To date practically no dead work has been done and hence very little waste rock has been handled. It has been the policy to ship all ore that would pay expenses with a small amount of sorting, and as a result, little development work has been done. The widest ore mined was 9 feet and the narrowest 3 feet. Fifteen men working on two shifts are employed at the mine. There has been constructed a compressor house, change room, tool house, tramway for hauling supplies, and a powder magazine.

At this point it might be well to point out that for March the mining cost was the lowest for the 5 month period and it is expected that for April this cost will be reduced. Twenty-seven cars of ore were shipped during April. Also for this operation the overhead expense has been negligible.

The future of the mine looks favorable for a large production of copper altho it is too soon to be able to determine how profitable this operation will be. However, at the present time the liquidation value of this project exceeds the balance due on the loan of $12,000.00.

WILLIAM B. MAITLAND
Supervising Engineer

MINING COSTS - BULLARD GOLD MINES, INC.

November 1943 to March 1944 - Inclusive

	Item	Nov. 1943 Total	Nov. 1943 Per Ton	Dec. 1943 Total	Dec. 1943 Per Ton	Jan. 1944 Total	Jan. 1944 Per Ton	Feb. 1944 Total	Feb. 1944 Per Ton	Mar. 1944 Total	Mar. 1944 Per Ton	Total -- 5 Mos. Total	Total -- 5 Mos. Per Ton	
1.	Wet Tons Ore Shipped	262.41 tons		644.8500 tons		616.47 tons		378.80 tons		1,502.51 tons		3,405.04 tons	--	1
2.	Dry Tons Ore Shipped	255.21		609.1105		577.6515		362.0905		1,438.8815		3,242.944	--	2
3.	Net Value of Ore at Mine Bin	$1,940.53	$7.60	$3,605.89	$5.91	$3,302.59	$5.75	$2,191.02	$6.06	$6,818.22	$4.75	$17,858.25	$5.50	3
4.	Wages Total (A to I inclusive)	$1,622.16	6.36	2,393.54	3.93	1,870.46	3.24	2,386.06	6.59	3,523.98	2.45	11,796.20	3.64	4
	A - Supervision	450.00		450.00		450.00		375.00		400.00		2,125.00	0.65	
	B - Mine Surace - General	136.28		196.16		258.00		200.00		232.02		1,022.46	0.32	
	C - Mine Development	581.81		--		--		--		--		581.81	0.18	
	D - Construction - Surface	62.40		193.44		100.00		718.03		241.90		1,315.77	0.41	
	E - Road	--		--		--		--		--		--	--	
	F - Office	--		--		--		--		--		--	--	
	G - Mining - Direct	391.67		1,553.94		1,062.46		1,093.03		2,650.06		6,751.16	2.08	
	H - Total Stoping Cost (A,B,F,G)	977.95	3.83	2,200.10	3.61	1,770.46	3.06	1,668.03	4.61	3,282.08	2.28	9,898.62	3.05	
	I - Total Labor Capital Investment (C, D, F)	644.21		193.44		100.00		718.03		241.90		1,897.58	0.59	
(5)	Tons Ore Per day	9.8	(26 das.)	22.6	(27 das.)	21.4	(27 das.)	14.5	(25 das)	53.3	(27 das.)	24.6	(132 das.)	(5)
(6)	" " " shift	9.8		22.6		21.4		14.5		26.7		19.0	(6 shifts)	(6)
(7)	" " "man "	1.4	(182 man shifts)	2.3	(264.8 man shifts)	2.7	(213.9 man shifts)	1.2	(301.74 man shifts)	4.1	(355 man shifts)	2.5	(1317.44 man shifts)	(7)
8.	Supplies Mining (A to I inclusive)	605.21	2.37	494.52	0.81	370.11	0.64	438.93	1.21	1,029.33	0.72	2,938.10	0.91	8
	A - Powder	107.78		250.00		158.94		148.00		355.20		1,019.92	0.32	
	B - Caps	10.00		16.00		11.14		11.00		25.00		73.14	0.02	
	C - Fuse	20.00		39.58		25.86		30.10		57.40		172.94	0.05	
	D - Carbide	2.00		3.25		5.42		5.42		10.20		26.29	0.01	
	E - Bits	4.00		8.97		65.64		75.06		241.50		395.17	0.12	
	F - Steel	--		7.25		--		42.00		79.00		128.25	0.04	
	G - Gas & Oil (Compressor)	357.25		33.87		74.28		77.90		171.22		714.52	0.22	
	H - Timber	100.38		120.00		--		30.00		43.00		293.38	0.09	
	I - Miscellaneous	3.80		15.60		28.83		19.45		46.81		114.49	0.04	
9.	Industrial Insurance	123.45		182.15		142.34		181.58		268.17		897.69	0.28	9
10.	Automobile Expense (A to C inclusive)	92.00		54.55		61.75		66.05		65.30		339.65	0.10	10
	A - Insurance	3.35		3.35		3.35		3.35		3.35		16.75	0.01	
	B - Gas & Oil	43.20		44.50		53.95		58.50		56.45		256.60	0.08	
	C - Repairs & Service	45.45		6.70		4.45		4.20		5.50		66.30	0.01	
11.	Equipment Purchases	791.56		569.10		527.02		465.29		1,582.65		3,935.62	1.21	11
12.	Road Repair	34.42	--	--	--	--	--	--	--	--	--	34.42	0.01	12
13.	Office Expense	30.00	--	30.00	--	33.53	--	43.03	--	34.34		170.90	0.05	13
14.	Assaying	22.50	--	75.00	--	138.50	--	72.50	--	109.00	--	417.50	0.13	14
15.	Interest on Loan	48.76	--	48.76	--	48.76	--	48.76	--	48.76	--	243.80	0.08	15
16.	Bank Fees	12.50	--	12.50	--	12.50	--	12.50	--	12.50	--	62.50	0.02	16
17.	Miscellaneous General Expense	76.50		78.00		71.19	--	172.92		231.95		630.56	0.19	17
18.	Total Expense (8 to 17 inclusive)	$1,836.90	7.20	$1,544.58	2.54	$1,405.70	2.43	$1,501.56	4.15	$3,382.00	2.35	$9,670.74	2.98	18
19.	Total Stoping Cost (4-H plus 8)	1,583.16	6.20	2,694.62	4.42	2,140.57	3.71	2,106.96	5.82	4,311.41	3.00	12,836.72	3.96	19
20.	Total Over All Expense (4 to 17 inc.	3,459.06	13.55	3,938.12	6.47	3,276.16	5.67	3,887.62	10.73	6,905.98	4.80	21,466.94	6.62	20
21.	Total Direct Mining Cost (4-H, 8,9, 10,12,13,14,15,16,17)	2,023.29	7.93	3,175.58	5.21	2,649.14	4.59	2,704.30	7.47	5,081.43	3.53	15,633.74	4.82	21
22.	NET OPERATING PROFIT (3-21)	82.76	0.33	430.31	0.71	653.45	1.13	513.28	1.41	1,736.79	1.21	2,224.51	0.68	22

PRODUCTION REPORT -- BULLARD GOLD MINES, INC.

TO A. S. & R. SMELTER, HAYDEN, ARIZONA

Marketing Data Lots 1 to 61 Inclusive	Nov. 1943 Total	Nov. 1943 Per Ton	Dec. 1943 Total	Dec. 1943 Per Ton	Jan. 1944 Total	Jan. 1944 Per Ton	Feb. 1944 Total	Feb. 1944 Per Ton	Mar. 1944 Total	Mar. 1944 Per Ton	TOTAL 5 Months	TOTAL Per Ton	
1. Wet Tons Ore Shipped	262.41 tons	10.1 tons working day	644.8500 tons	23.9 tons day	616.4700 tons	22.8 tons day	378.8000 tons	15.1 tons day	1502.5100 tons	55.7 tons day	3405.0400 tons	25.8 tons day	1
2. Dry Short Tons Ore Shipped	255.21 "	9.8 " "	609.1105 "	22.6 " "	577.6515 "	21.4 " "	362.0905 "	14.5 " "	1438.8815 "	53.3 " "	3242.9440 "	24.6 " "	2
3. Moisture Content	7.20 "	2.75%	35.7395 "	5.54%	39.8185 "	6.46%	16.7095 "	4.41%	63.6295 "	4.24%	162.0960 "	4.76%	3
4. Gold Content in ounces	40.002 oz.	0.157 oz.	62.738 oz.	0.103 oz.	45.90 oz.	0.080 oz.	33.93 oz.	0.094 oz.	66.22 oz.	0.046 oz.	248.79 oz.	0.077 oz.	4
5. Smelter Net Payment for Gold	$1292.79	$5.07	$2027.58	$3.33	$1483.41	$2.59	$1096.56	$3.04	$2140.12	$1.49	$8040.46	$2.48	5
6. Average Copper Content (lbs. & %)	10,449 lbs.	2.05%	23,702 lbs.	1.94%	24,413 lbs.	2.11%	14,976 lbs.	2.07%	54,778 lbs.	1.98%	128,318 lbs.	1.98%	6
7. Smelter Net Payment for Copper	$721.91	$2.83	$1730.02	$2.84	$1696.58	$2.94	$1039.52	$2.87	$3693.63	$2.57	$8881.66	$2.73	7
8. Total Smelter Payment for Metals (5 plus 7)	$2014.70	$7.90	$3757.60	$6.17	$3179.99	$5.53	$2136.08	$5.91	$5833.75	$4.06	$16922.12	$5.21	8
9. Smelting Charges per Dry Ton	$ 483.68	$1.90	$1065.97	$1.75	$1010.89	$1.75	$ 633.66	$1.75	$2532.43	$1.75	$5726.63	$1.77	9
10. Railroad Freight on Ore	$ 513.70	$2.01	$1192.98	$1.96	$1140.41	$1.98	$ 700.79	$1.93	$2782.79	$1.94	$6330.67	$1.95	10
11. Trucking Charges on Ore	$ 262.41	$1.00	$ 644.85	$1.06	$ 616.47	$1.04	$378.80	$1.05	$1502.51	$1.05	$3405.04	$1.05	11
12. Royalty Payments (10% net Smelter)	$ 75.76	$0.30	$ 98.69	$0.16	$ 47.89	$0.09	$ 32.99	$0.10	$ 2.18	$0.002	$ 257.51	$0.07	12
13. Misc. Charges (umpire, telegrams, etc.) (9 plus 10, 11, 12 & 13)	0.47	0.00	$ 10.07	0.01	10.69	0.03	$ 7.70	0.02	$ 24.44	$0.01	$ 53.37	0.02	13
14. Total Marketing Charges Except taxes	$1336.02	$5.21	$3012.56	$4.94	$2826.35	4.89	$1753.94	4.85	6844.35	$4.75	$15773.22	$4.86	14
15. Taxes on Smelting	$ 2.07	--	$ 3.86	--	$ 5.80	--	$ 3.62	--	$ 12.69	--	$ 28.04	$0.009	15
16. Taxes on Railroad Freight	$ 15.41	--	$ 35.80	--	$ 34.20	--	$ 21.03	--	$ 83.60	--	$ 190.04	$0.06	16
17. Taxes on Trucking	$ 7.88	--	$ 19.34	--	$ 18.49	--	$ 11.36	--	$ 45.09	--	$ 102.16	$0.03	17
18. Total Taxes (15 plus 16 plus 17)	$ 25.36	$0.099	$ 59.00	$0.097	$ 58.49	$0.101	$ 36.01	$0.099	$ 141.38	$0.098	$ 320.24	$0.099	18
19. Total Marketing Charges (14 plus 18)	$1361.38	$5.31	$3071.56	$5.04	$2884.84	$4.99	$1789.95	$4.95	$6985.73	$4.85	$16093.46	$4.96	19
20. Smelter Net Payment to Shipper (8 - 19)	$ 653.32	$2.55	$ 686.04	$1.13	$ 295.15	$0.54	$ 346.13	$0.96	$1151.98	$0.79	$ 828.66	$0.25	20
21. Premium Payment on Copper (5¢ plus 7.7¢ lb.)	$1287.21	$5.05	$2919.85	$4.78	$3007.44	$5.21	$1844.89	$5.10	$7970.20	$5.54	$17029.59	$5.25	21
22. Total Payment for Ore (Dry Tons) (20 plus 21)	$1940.53	$7.60	$3605.89	$5.91	$3302.59	$5.75	$2191.02	$6.05	$6818.22	$4.75	$17,858.25	$5.50	22

Progress Report of
Supervising Engineer

"Bullard Gold Mines Inc
ND 5391
May 12, 1944

Following is a report on the progress being made at the Bullard Mine. The date of my last visit to this property was May 2, 1944.

Attached hereto is a Production Report on ore shipped to the Hayden Smelter from Nov 1943 to March 1944 inclusive and a statement of Mining Cost and Net Profit for this same period. Also enclosed is a map of the mine showing the various samples taken and the areas of the vein that have been stoped.

The U.S.G.S. has just completed a detailed study of the geology of the mine and in the near future these data should be available

185 The Hayden Smelter has reduced the tonnage of Bullard ore they will accept to 500 tons per month but the Phelps Dodge Clarkdale smelter has agreed to take 100 tons per day altho the freight rate to Clarkdale is $0.55 cheaper per ton and the smelter rate $1.00 per ton more than at Hayden.

2.75
1.75

The mine started shipping in November 1943

so all funds spent in the first month of operation which was Oct 1943 were considered as capital investment. These items are:-

Payroll	1020.90
Equipment Purchased	4101.95
Road construction	176.00
Office expense	30.00
Interest on Loan	48.76
Bank fees	12.50
Industrial insurance	77.75
Auto expense	35.00
Total	$5502.86.

(2) Mr. George French was in charge of operations at the mine until the end of January and after that time Mr. Joe Klein was superintendent. Under Mr. Klein there has been a marked improvement both in regard to cost and gross production. During April the Bullard Mine was the largest ~~tonnage~~ producer, ~~the largest gold producer and the~~ under mine loan from this office in regard to tonnage of ore, ounces of ~~silver~~ gold, and pounds of copper.

3935.62
~~74.96~~
4101.95
8037.57

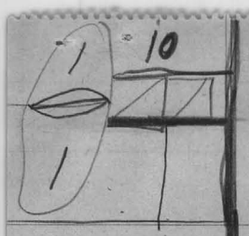
The balance in the depository bank as of May 9th was $6958.82 and of this date there were 9 cars in transit representing another $3000 approximately. Effective March 1st the special premium on copper was raised from 7.7¢ to 10¢ per pound so that now a lower grade of ore can be mined at a profit than heretofore. For this project there has been

purchased $8037.57 worth of equipment with a unpaid balance due of approximately $1200.00. ~~twenty seven cars of ore were shipped during April.~~
In order to reduce the mining cost the project has been mechanized as much as possible a room and pillar method of mining has been adopted and after the ore is broken it is slushed into raises by scrapers powered by air triggers. The ground stands very well altho bit ~~consumption~~ and powder consumption has been high since the ~~rock~~ ore is hard and abrasive.

To date practically no dead work has been done and hence very little waste rock has been handled. It has been the policy to ship all ore that would pay expenses with a small amount of sorting and as a result little development work has been done. ~~since the ore has been shipped as~~
The widest ore mined was 9 feet and the narrowest 3 feet. Fifteen men working on two shifts are employed at the mine. There has been constructed a compressor house, change room, tool house, tram way for hauling supplies, and a powder magazine.

At this point it might be well to point out that for March the mining cost ~~has~~ was the lowest for the 5 month period and it is expected that for April this cost will be reduced. twenty seven cars of ore were shipped during April Also for this operation the overhead expense has been negligible.

(3)



8 3
10 4

The future of the mine looks favorable for a large production of copper altho it is too soon to be able to determine how profitable this operation will. However at the present time the liquidation value of this project exceeds the balance due on the loan of $12,000.

Wm B Mitchell

325 Heard Building
Phoenix, Arizona
February 8, 1944

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

Re: Bullard Gold Mines, Inc. - Docket No. ND-5391

Enclosed herewith please find my Progress Report, in duplicate, on the above captioned project.

WILLIAM B. MAITLAND
Supervising Engineer

WBM:dem
Encs.
2c Progress Report

RECONSTRUCTION FINANCE CORPORATION
MINING DIVISION
PROGRESS REPORT OF SUPERVISING ENGINEER

Bullard Gold Mines, Inc.
Docket No. - ND-5391
Date of Visit - Feb. 4, 1944
Date of Report- Feb. 8, 1944

On February 4, 1944, I visited the Bullard Mine in order to inspect the progress being made. The balance of funds remaining as of the first of February was $2,912.20, but this figure does not include over $1,000 still due from shipments made in January. A total of 27 cars of ore have been shipped to date which is a poor showing for this property.

Mr. George French has been the superintendent, but on the first of February he was replaced by Mr. Joseph P. Klein who formerly worked at the Alvarado Mine (Liberty Hills), the Boggs Mine (R.P.M. Davis) and the Silver Hills Mine (Segar) all R.F.C. loan projects. With a crew of 10 men, Mr. French only averaged 15 tons per day and did not do clean mining of the vein as he broke both the hanging and foot walls. Mr. French's contract has been completely terminated. Mr. Klein, I believe, will greatly increase production and also raise the grade of the ore shipped.

During November and December of 1943, the two months for which we have complete records, we have the following figures as to production and costs:-

Tonnage of ore shipped to smelter..... 907.26 wet short tons

Net value per ton of ore shipped after deductions for hauling, freight, smelting, royalty, taxes..... $ 6.13

Total net value of ore shipped.....$ 5300.46

Costs per ton for Stoping Ore

Labor

Supervision.....	$ 1.42	
Surface.....	0.35	
Office.....	0.06	
Mining.....	2.10	
Total Labor.....		$ 3.93

Supplies

Powder (6.9 sticks/ton)..	$ 0.41	
Caps.....	0.03	
Fuse.....	0.07	
Carbide.....	0.006	
Bits.....	0.014	
Steel.....	0.008	
Gas & Oil.....	0.43	
Timber.....	0.24	
Total Supplies.....		$ 1.20

Brought Forward.....		$ 5.13
Miscellaneous		
Accident Insurance (partial)...	$ 0.17	
Automobile Expense.....	0.05	
Office Expense.....	0.10	
Assaying.....	0.11	
Interest on loan.....	0.16	
Bank Fees.....	0.04	
Misc. Expenses.....	0.15	
Total Miscellaneous Expense.....		$ 0.78
Total Cost Per Ton.....		$ 5.91
Net Profit Per Ton.....		$ 0.22
Net Profit for Nov. and Dec.....		$199.60

From the above figures, it is obvious that the overhead has been too high. Also, the past superintendent has used too much powder in breaking the ore. With the same size crew and same general overhead costs, the mine should have produced 50 tons per day and in the future I believe Mr. Klein will easily produce this amount, as in the first three rounds he broke over 75 tons of ore.

Therefore, we can conclude that the past poor showings from this property have been due to the superintendent and that the mine in the future, under new management, will be much more successful. During January, Mr. French produced 11 cars of ore which is a better showing than for last year.

The average value of the 864.32 dry short tons (907.26 wet tons) shipped during 1943, averaged 0.119 oz gold and 1.97% copper. The metal content of the ore was diluted by careless mining of waste from the walls.

WILLIAM B. MAITLAND
Supervising Engineer

2912.20

Progress Report

Bulland Gold Mines Ltd
ND 5391
Date of Visit Feb 4, 1944
Date of Report Feb 8, 1944

On Feb 4, 1944 I visited the Bulland Mine under to ~~report~~ inspect the progress being made. The balance of funds remaining as of the first of February was $2912.20 but this figure does not include over $1000 still due from shipments made in January. A total of 27 cars of ore have been shipped to date which is a poor showing for this property. ~~For that to~~

(1)

Mr George French has been the superintendent but on the first of February he was replaced by Mr. Joseph P. Klein who formerly worked at the Alvarado Mine (Liberty Hills), the Boggs Mine (R.P.M. Davis) and the Silver Hills Mine (Segar) all ~~former~~ R.F.C. loan projects. With a crew of 10 men Mr French ~~was~~ only averaged 15 tons per day and did not do clean mining of the vein as he broke both the hanging and foot walls. Mr. French's contract has been completely terminated. Mr Klein I believe will greatly increase production and also raise the grade of the ore shipped.

During November and December of 1943, the two months for which we have complete records we have the following figures as to production and costs:-

1290.00
332.44
73.25
1945.61
3641.20

Tonnage of ore shipped to smelter — 907.26 wet short tons

Net value per ton of ore shipped after deductions for hauling, freight, smelting, royalty, taxes — $6.13

Total net value of ore shipped — $5300.46

Costs per ton for Stoping Ore

Labor

Supervision	$1.42	
Surface	0.35	
Office	0.06	
Mining	2.10	
Total labor		$3.93

Supplies

(2)

Powder (6.9 sticks/ton)	$0.41	
Caps	0.03	
Fuse	0.07	
Carbide,	0.006	
Bits	0.014	
Steel	0.008	
Gas & Oil	0.43	
Timber	0.24	
Total supplies		$1.20

Miscellaneous

Accident insurance (partial)	$0.17	
Automobile expense	0.05	
Office expense	0.10	
Assaying	0.11	
Interest on loan	0.16	
Bank fees	0.04	
Misc. expenses	0.15	
Total Miscellaneous expense		$0.78

Total cost per ton — $5.91

Net profit per ton $0.22
Net profit for Nov. and Dec $199.60

From the above figures it is obvious that the overhead has been too high. Also the past superintendent has used too much powder in breaking the ore. With the same size crew and same general overhead costs the mine should have produced 50 tons per day and in the future I believe Mr. Klein will easily produce this amount as in the first three ~~blasts~~ rounds he broke over 75 tons of ore.

(3)

Therefore we can concluded that the past poor showings from this property has been due to the superintendent and that the mine in the future under new management will be much more successful. During January Mr French produced 11 cars of ore which is a better showing than for last year.

The average value of the 864.32 dry short tons (907.26 wet tons) shipped during 1943 averaged 0.119 oz gold and 1.97% copper. The metal content of the ore was diluted by careless mining of waste from the walls

Wm B Mathews
Eng E

325 Heard Bldg.
Phoenix, Arizona
December 27, 1943

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

Re: "Bullard Gold Mines, Inc. - Docket No. ND-5391

Enclosed please find my Progress Report, in duplicate, on the above captioned project.

WILLIAM B. MAITLAND
Supervising Engineer

WBM:dem
Encs.
2c Progress Report

RECONSTRUCTION FINANCE CORPORATION
MINING DIVISION
PROGRESS REPORT OF SUPERVISING ENGINEER

Bullard Gold Mines, Inc.
Docket No. ND-5391
December 27, 1943

On December 17, 1943, I visited the above captioned project in order to inspect the progress being made. The applicant had $4,796.22 remaining from the original loan of $15,000.

The loan funds were made available on October 5, 1943, and the expenditures up to December 15, 1943 have been as follows:-

Equipment and Supplies.....	$ 5,693.20
Insurance Deposit.....	155.00
Petty Cash.....	275.32
Road Repair.....	176.00
Auto Insurance.....	40.23
Office Expense & Misc. Overhead.....	91.09
Bank Fee.....	112.50
Payroll.....	3,899.49
Deficit Payments to Smelter.....	28.48
Total Expenditures Oct. 6th to Dec. 15th, 1943.	$ 10,471.31
Receipts from first 3 ore shipments (partial settlement)	267.53
Total net expenditures.....	$ 10,203.78
Balance of Loan Funds.....	4,796.22
Total for Loan.....	$ 15,000.00

The applicant plans to ship 16 cars of ore before the first of the year.

The following ore shipments have been made:-

Lot No.	Dry Short Tons	Oz. Gold/Ton	% Copper	Net Smelter Payment	Bonus Payment	Total Payment	Net Per Ton At Mine
Nov.18 - 1	59.3490	0.052	2.03	-$16.67 (deficit)	$ 296.93	$ 280.26	$ 4.72
Dec.15 - 2	49.5275	0.065	1.81	- 11.81 (deficit)	220.88	209.07	4.22
Dec.15 - 3	48.4225	0.080	1.65	0.29	196.86	197.15	4.07
Total	157.299	0.066	1.85	$28.19 (deficit)	$ 714.67	$ 686.48	$ 4.36

At the mine they have completed the connection between the top of the raise and the upper drift and are starting to prepare the raise for stoping. The compressor and pipe line have been installed and the road has been repaired. Considerable delay was caused by breakdowns of the compressor and engine. It was found that the ore takes more dynamite and wears the drill bits faster than anticipated. Labor has

been hard to get and is not very efficient so the job has been slower and more costly than originally estimated.

It is hoped that after the mine work becomes better organized the costs can be reduced and the rate of production increased.

Between Dec. 15th and 27th there has been received partial provisional payments totaling $2,550.88 for 315,358 tons (lots 4,5,6,7,8,9) and this amount has been deposited in the trust fund.

WILLIAM B. MAITLAND
Supervising Engineer

5449.43
653.21
4796.22

4059.22
355.00
3704.22

Progress Report

Bullard Gold Mine Inc.
ND ~~5547~~ 5391
Dec 27, 1943

1 x 3

On Dec 17, 1943 I inspected the above captioned project in order to inspect the progress being made. The applicant had $4796.22 remaining from the original loan of $15,000. ~~which was~~

The loan funds were made available on Oct 5, 1943 and the expenditures up to Dec 15, 1943 have been as follows:-

Equipment & Supplies	14.32 56.45 152.59 30.50 25.10 618.60 21.10 108.66 + 594.31 + 357.25	5693.20
Insurance deposit		155.00
Petty Cash		275.32
Road repair		176.00
Auto Insurance		40.23
Office expense + misc overhead	22.50 60.00 +	91.09
Bank Fee		112.50
Payroll	700.40 714.16 1265.49 317.50 898.94	3899.49
Deferred payments to smelter	11.51	28.48
Total Expenditures Oct 6 to Dec 15, 1943		$10,471.31
Receipts from first 3 ore shipments (Partial Settlement)		267.53
Total net expenditures		$10,203.78
Balance of Loan Funds		4796.22
Total for loan		$15,000.00

The applicant plans to ship 16 cars of ore before the first of the year.

7-7

The following ~~ore~~ shipments have been made:-

Lot No	Dry Short Tons	oz Gold/ton	% Copper	Net Smelter Payment	Bonus Payment	Total Payment	Net per ton at mine
Nov 18-1	59.3490	0.052	2.03	-16.67 (Deficit)	296.93	280.26	$4.72
Dec 15-2	49.5275	0.065	1.81	-11.81 (Deficit)	220.88	209.07	4.22
Dec 15-3	48.4225	0.080	1.65	0.29	196.86	197.15	4.07
Total	157.299	0.066	1.85	$28.19 (Deficit)	714.67	686.48	$4.36

At the mine they have completed the connection between the top of the raise and the upper drift and are starting to prepare the raise for stoping. The compressor and pipe line have been installed and the road has been repaired. considerable delay was caused by breakdowns of the compressor and engine It was found that the ore takes more dynamite and wears the drill bits faster than anticipated. Labor has been hard to get and is not very efficient so the ~~operation~~ ~~has~~ job has been slower and more costly than originally estimated.

It is hoped that ~~the~~ after the mine work becomes better organized the costs can be reduced and the rate of production increased

[signature]

Sept. 13, 1943

Mr. George D. French
P. O. Box 602
Phoenix, Arizona

Re: Bullard Gold Mine

Dear Sir:

In confirmation of our many conversations regarding the Bullard Gold Mine, it is our understanding that you are desirous of contracting for the extraction of the gold, copper ~~and~~ silicious ore contained in the Home vein of the Bullard Gold Mine, and more particularly described in the American Smelting & Refining Company map of the mine.

We are desirous of having you contract for the mining of this ore body and are willing to make you the following proposition, provided that it meets with the approval of the Reconstruction Finance Corporation, since they are financing this project and all matters in regard to the operation and development of this property will be under their direction until the money they have advanced this project has been repaid.

We are willing to offer you a minimum monthly guaranty on your contract of $450.00, and this amount is also to be construed as a salary paid to you for your supervision of this mine and for any supplemental or preliminary work you will do in our behalf. In other words, you are to be the Mine Superintendent and will also have a contract subject to the conditions and terms hereinafter ~~under~~ outlined.

It is further understood that you are to pay all of your own living expenses and also to pay all travelling expenses unless you are authorized to make an extended trip not pertaining to your contracting on the property.

It is understood that this employment is subject to the labor laws of the State of Arizona and may be terminated at any time by us with the proper legal notice.

The basic consideration for this contract will be a payment ~~and remain~~ to you of $3 per ton for all ore mined from and delivered into the ore bin on the Home vein. This $3 payment per short dry ton will be based upon smelter weights and will be for all ore from the minimum economic grade up to and including $13 per ton. ~~The value~~

The value per ton of the ore covered in this contract will be based upon the actual smelter payments made for the gold, silver, copper content in the ore plus any premiums paid by the Metals Reserve Corporation, but without deduction for smelting, freight, hauling, or taxes.

It is further understood that for all ore ~~from~~ over $13 per ton you will receive as an additional bonus of 10% of this additional value over $13.00. In other words, for $14 ore you will receive a total of $3.10 per ton; for $15 ore, you will receive a total of $3.20 per ton, etc. It is our understanding that this basic $3 per ton contract is for all tonnage mined by you up to and including 50 tons per day (Sundays not included); but if you are able to mine more than 50 tons per day, you will receive an additional bonus as follows:

51 tons up to and including 60 tons per day, 10¢ per ton on the total tonnage mined.
~~10 cents per ton for all of the total tonnage greater than 50 tons and up to 60 tons per day;~~
61 tons up to and including 70 tons per day, 20¢ per ton on the total tonnage mined.
~~20 cents per ton for all tonnage greater than 60 tons and up to and including 70 tons per day; and~~
71 tons up to and including 80 tons per day, 30¢ per ton on the total tonnage mined.
~~30 cents per ton for all tonnage from 70 tons per day and up, to and including 80 tons per day, etc.~~ and so on.

Thus, if you mine 60 tons per day of $13 ore, you will receive $3.10 for each ton.

The tonnage and grade will be calculated on the amount shipped to the smelter within any one calendar month (Sundays not included), and settlement will be made to you within two days after we receive the last Metals Reserve and smelter payments for the last shipment in the previous calendar month.

It is further understood that this contract may be cancelled within ten (10) days after notification by either party.

It is further agreed that this contract or our operations or any part thereof may be terminated or altered immediately by the Reconstruction Finance Corporation and/or their engineers. If we elect to cancel this contract, it will be understood that upon the day notification by you is received, you will cease all expenditures and work at the property; but your salary will continue for the ten day cancellation period.

It is further understood that we shall furnish you and pay for as an advance, against the $3.00 per ton basic contract price the cost of all supplies necessary for the performance of this contract, such as powder, caps, fuse, fuel oil, lubricating oil, drill steel, bits, etc., but no purchases can be made by you without approval by us.

We shall also advance to you all labor costs, including actual wages paid to your employees and necessary social security taxes, withholding taxes, compensation insurance payments and the like. But we agree that you will not hire additional men or contract for any debts or purchase of supplies or equipment without the approval of this office.

During the life of this agreement, you will have sole operation of the property and the sole right to hire and discharge all employees. It shall be your duty to obtain social security numbers and addresses from employees, and exemption certificates, and transmit such data to us. All work shall be done in a workmanlike manner to meet the various state and Federal requirements and that we shall be allowed to inspect and sample the property at any time.

S/d BULLARD GOLD MINE, INC

By _____
J. P. Smith, Vice-President

Accepted by:

_____
George D. French

Dated: _____

RECONSTRUCTION FINANCE CORPORATION
MINING DIVISION
PROGRESS REPORT OF SUPERVISING ENGINEER

Bullard Gold Mines, Inc.
Docket No. ND-5391
Date of Examination: December 5, 1944
Date of Report: December 11,1944

On December 5, 1944 I visited this project in order to ascertain the progress being made. Starting the first of December, regular stoping began and at the time of my visit two cars of ore had been shipped to the smelter, and it is expected that the mine will now produce two cars of ore each week.

The Clarkdale smelter has notified all shippers that, effective December 1, 1944, the minimum smelter rate will be $3.50 per ton.

It is expected that no more development work will be necessary at the mine for the next two months at least, and during that time the mine should produce about 800 tons of ore.

WILLIAM B. MAITLAND
Supervising Engineer

WBM:sbm

1 X 3

Progress Report

Bulland Gold Mines Ltd
NO 5391
Dec 11, 1944

5391

On Dec 5, 1944 I visited this project in order to ascertain the progress being made. Starting the first of December regular stoping began and at the time of my visit two cars of ore had been shipped to the smelter and it is expected that the mine will now produce two cars of ore each week.

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It is expected that no more development work will be necessary at the mine for the next two months at least and during that time the mine should produce about 800 tons of ore

Wm B Mundhenke

DO NOT COPY THIS ONE

Summary of Operations

of

BULLARD GOLD MINES, INC.

November 1, 1943 to November 1, 1944

	Total	Per Ton	Per cent
Gross Income from Sale of Ore			
Gold production	708.666 oz	0.091 oz	
Gold Smelter payment ($32.21/oz)	$22,762.00	$2.93	25 %
Silver production paid for	368.11 oz	0.047 oz	
Silver Smelter payment ($0.706/oz)	$259.98	$0.03	1 %
Copper production	313,523 lbs	40.3 lbs	
Copper Smelter payment: ($0.146 Premium plus $0.067 smelter/lb)	$66,922.34	$8.61	74 %
TOTAL gross income from 7775.095 dry short tons	$89,944.32	$11.57	100 %
Gross Expense of Ore Production			
Marketing Expense			
Smelter charges (AS&R-Phelps-Dodge)	$17,087.13	$2.20	43 %
Railroad Freight (Santa Fe RR)	13,135.92	1.69	33 %
Trucking ($1.00/wet ton)	8,073.51	1.04	20 %
Taxes (Transportation & Smelting)	673.39	0.089	2 %
Royalty (10% net Smelter)	911.80	0.12	2 %
Miscellaneous Expense: (Telegrams and Assaying)	73.96	0.001	
TOTAL Marketing Expense	$39,955.71	$5.14	100 %
Mining Expense			
Wages (Total)	$31,384.25	$4.04	62 %
Mining supplies (expendable)	8,510.03	1.10	17 %
Industrial Insurance)accident)	2,975.12	0.38	6 %
Automobile Expense (Pickup)	1,494.33	0.19	3 %
Taxes (Payroll and Property)	1,787.09	0.23	4 %
Road Repair	34.42	0.00	
Interest on Loan and Bank Fees	735,12	0.09	1 %
Office Expense (Bookkeeping and Supplies)	385.67	0.05	
Miscellaneous General Expense	3,383.46	0.43	7 %
TOTAL Mining Expense	$50,649.49	$6.61	100 %
TOTAL Operating Expense	$90,605.20	$11.65	
Net Loss	$660.88	$0.08	
RFC Loan	$15,000.00		
Advance by Applicant	3,000.00		
TOTAL Invested Capital	$18,000.00		
Net Loss on Operation		$660.88	
Loan Repayment		3,000.00	
Bills Payable		351.41	
Equipment, purchases and capital investment		12,356.83	
TOTAL net payments made		$16,369.12	
Cash on hand			$1,630.88

Notes on Operations

of

Bullard Gold Mines, Inc.

November 1, 1943 to November 1, 1944

	Total	Per ton of Ore Produced
Total Man shifts including supervision	3380.94	0.44
Tons per man shift including supervision	2.3	
Feet of development work (inclined raises)	270 ft	0.03 ft
Equipment purchases (included under Capital Investment)	$9530.78	$1.23
% Moisture in ore	326.97 tons	4.03 %
Mining Supplies (Stoping and Development)		
Powder pounds used	16464 lbs	2.1 lbs
Powder cost	$2430.72	$0.31
Caps used	10082 caps	1.3 caps
Caps cost	$201.74	$0.03
Fuse feet used	07706 ft	0.7 ft
Fuse cost	$473.94	$0.06
Compressed air cost (Supplies & fuel)	$1817.66	$0.23
Bits cost	$1315.77	$0.17
Steel cost	$699.00	$0.09
Timber board feet used	10385 ft	1.3 bd ft
Timber cost	$623.14	$0.08
TOTAL Expense for October, 1943 charged to Capital Investment:	$5502.06	$0.71

RECONSTRUCTION FINANCE CORPORATION
MINING SECTION
PROGRESS REPORT OF SUPERVISING ENGINEER

Docket No. ND-5391
Name: Bullard Gold Mines, Inc.
Date: November 28, 1944

On November 14, 1944 I visited this project. This mine on the first of November had been producing ore for exactly one year. Attached to this report is a recapitulation of a year's operation. Also attached is a map showing the various areas stoped and development work done.

There is now exposed in the mine about 2,000 tons of ore that should show considerable profit. During September the ore netted $9.29 per ton before mining costs and during October the net was $6.55. Due to the nature of the deposit it is impossible to block out any ore efficiently. It is my opinion that the reason the mine has as yet not shown a profit is due to the fact that the various ore bodies so far mined were widely scattered, thus necessitating too much development work.

WILLIAM B. MAITLAND
Supervising Engineer

WBM:sbm

Attached:
1 - recap
2 - map

Summary of Operations

of

BULLARD GOLD MINES, INC.

November 1, 1943 to November 1, 1944

	Total	Per Ton	Per cent
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TOTAL gross income from 7775.095 dry short tons	$89,944.32	$11.57	100 %
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Marketing Expense			
Smelter charges (AS&R-Phelps-Dodge)	$17,087.13	$2.20	43 %
Railroad Freight (Santa Fe RR)	13,135.92	1.69	33 %
Trucking ($1.00/wet ton)	8,073.51	1.04	20 %
Taxes (Transportation & Smelting)	673.39	0.089	2 %
Royalty (10% net Smelter)	911.80	0.12	2 %
Miscellaneous Expense: (Telegrams and Assaying)	73.96	0.001	
TOTAL Marketing Expense	$39,955.71	$5.14	100 %
Mining Expense			
Wages (Total)	$31,384.25	$4.04	62 %
Mining supplies (expendable)	8,510.03	1.10	17 %
Industrial Insurance)accident)	2,975.12	0.38	6 %
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Notes on Operations

of

Bullard Gold Mines, Inc.

November 1, 1943 to November 1, 1944

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Powder cost	$2436.72	$0.31
Caps used	10082 caps	1.3 caps
Caps cost	$201.74	$0.03
Fuse feet used	67706 ft	8.7 ft
Fuse cost	$473.94	$0.06
Compressed air cost (Supplies & fuel)	$1817.66	$0.23
Bits cost	$1316.77	$0.17
Steel cost	$699.00	$0.09
Timber board feet used	10385 ft	1.3 bd ft
Timber cost	$623.14	$0.08
TOTAL Expense for October, 1943 charged to Capital Investment:	$5502.86	$0.71

XXXXXXXXXXXXXXXXXXX

325 Heard Building
Phoenix, Arizona
November 28,1944

TULLY - Asst. Chief - Mining Section, RFC - Washington 25, DC

Re: Bullard Gold Mines, Inc. - Docket No. ND-5391

Enclosed please find, in duplicate, my Progress Report on the above-captioned project.

WILLIAM B. MAITLAND
Supervising Engineer

WBM:SBM

Enc:
2c - Progress Report
w/ attachments:
1 - recap
2 - map

Progress Report

Bullard Gold Mines Inc
ND 5391
Nov 28, 1944

On Nov 14, 1944 I visited this project. This mine on the first of November has been producing ore for exactly one year. Attached to this report is a recapitulation of a years operation. Also attached is a map showing the various areas stoped and development work done.

There is now exposed in the mine about 2000 tons of ore that should show considerable profit. During September the ore netted $9.29 per ton before ~~mach~~ mining costs and during October the net was $6.55. ~~While~~ Due to the nature of the deposit it is impossible to effectively block out any ore. ~~altho~~ It is my opinion that the reason the mine has as yet not shown a profit is due to the fact that the various ore bodies so far mined were widely scattered thus necessitating too much development work.

Wm B Mallard

Progress Report

Bullard Gold Mines Inc
ND 5391
Nov, 8, 1944

On Oct 31, 1944 I visited this project morder to inspect the progress being made.

During october 7 cars of ore were shipped to the Clarkdale smelter. Work is progressing slowly as labor is scarce now in this area.

The Bureau of Mines has ceased diamond drilling after the completion of four shallow holes. Assays of the cores of these holes are still not available

Wm B Muntland
Sup Eng.

Letter of Transmittal

[illegible]

RECONSTRUCTION FINANCE CORPORATION

MINING DIVISION

PROGRESS REPORT OF SUPERVISING ENGINEER

Re: Bullard Gold Mines, Inc
Docket No. ND-5391
Report dated: November 8, 1944

On October 31, 1944, I visited this project in order to inspect the progress being made.

During October seven cars of ore were shipped to the Clarkdale smelter. Work is progressing slowly as labor is scarce now in this area.

The Bureau of Mines has ceased diamond drilling after the completion of four shallow holes. Assays of the cores of these holes are still not available.

WM. B. MAITLAND
Supervising Engineer

Summary of Operations

of

BULLARD GOLD MINES, INC.

November 1, 1943 to November 1, 1944

	Total	Per Ton	Per cent
Gross Income from Sale of Ore			
Gold production	708.666 oz	0.091 oz	
Gold Smelter payment ($32.21/oz)	$22,782.00	$2.93	25 %
Silver production paid for	368.11 oz	0.047 oz	
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Copper production	313,623 lbs	40.3 lbs	
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TOTAL gross income from 7775.095 dry short tons	$89,944.32	$11.57	100 %
Gross Expense of Ore Production			
Marketing Expense			
Smelter charges (ASSR-Phelps-Dodge)	$17,087.13	$2.20	45 %
Railroad Freight (Santa Fe RR)	13,135.92	1.69	35 %
Trucking ($1.00/wet ton)	8,075.51	1.04	20 %
Taxes (Transportation & Smelting)	675.39	0.088	2 %
Royalty (10% net Smelter)	$11.80	0.12	2 %
Miscellaneous Expense: (Telegrams and Assaying)	75.96	0.001	
TOTAL Marketing Expense	$39,985.71	$5.14	100 %
Mining Expense			
Wages (Total)	$31,304.25	$4.04	62 %
Mining supplies (expendable)	8,510.03	1.10	17 %
Industrial Insurance)accident)	2,976.12	0.38	6 %
Automobile Expense (Pickup)	1,494.33	0.19	3 %
Taxes (Payroll and Property)	1,787.09	0.23	4 %
Road Repair	54.42	0.00	
Interest on Loan and Bank Fees	756.12	0.09	1 %
Office Expense (Bookkeeping and Supplies)	386.67	0.05	
Miscellaneous General Expense	3,363.46	0.43	7 %
TOTAL Mining Expense	$50,643.49	$6.51	100 %
TOTAL Operating Expense	$90,605.20	$11.65	
Net Loss	$660.88	$0.08	
RFC Loan	$15,000.00		
Advance by Applicant	3,000.00		
TOTAL Invested Capital	$18,000.00		
Net Loss on Operation		$660.88	
Loan Repayment		3,000.00	
Bills Payable		381.41	
Equipment, purchases and capital investment		12,326.83	
TOTAL net payments made		$16,369.12	
Cash on hand			$1,630.88

Notes on Operations

of

Bullard Gold Mines, Inc.

November 1, 1943 to November 1, 1944

	Total	Per ton of Ore Produced
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Equipment purchases (included under Capital Investment)	$9530.78	$1.23
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Mining Supplies (Stoping and Development)		
Powder pounds used	16464 lbs	2.1 lbs
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Bits cost	$1318.77	$0.17
Steel cost	$699.00	$0.09
Timber board feet used	10385 ft	1.3 bd ft
Timber cost	$623.14	$0.08
TOTAL Expense for October, 1943 charged to Capital Investment:	$5502.86	$0.71

RECONSTRUCTION FINANCE CORPORATION

MINING SECTION

PROGRESS REPORT OF SUPERVISING ENGINEER

Bullard Gold Mines, Inc.
Docket No. ND-5391

On September 29 I visited this project in order to ascertain the progress being made. The mine is now being operated on a one shift basis and they are averaging about three cars of ore per week. Our records show that during the month of August they shipped 670.05 dry short tons of ore which netted them at the mine ore bin $5,260.16 and after allowing for all operating costs there was a profit for the month of $568.47. Their direct mining costs amounted to $7.00 per ton, of which $3.97 a ton was labor. So far in the operation of this mine their lowest mining cost was $3.16 a ton, in April; and their greatest operating profit was $3.27 per ton in the same month of April.

The Bureau of Mines has drilled four short holes on this property but due to lack of funds they have now abandoned the project. Three of the holes were in ore and the other one cut only a very small stringer. As yet we do not have the assay results of these drill holes.

At the present time there are six cars of ore in transit to the smelter and the Corporation is gradually paying all of the old outstanding bills, so that we expect within the next two months to build up a small surplus in the loan account.

William B. Maitland
Supervising Engineer

RECONSTRUCTION FINANCE CORPORATION

MINING DIVISION

PROGRESS REPORT OF SUPERVISING ENGINEER

Docket No. ND-5391
Bullard Gold Mines, Inc.
Date of Report: Sept. 7, 1944

On Aug. 31, 1944, I visited this project in order to ascertain the progress being made.

From Nov. 1, 1943, to Aug. 1, 1944, the production of the mine has been as follows:

Dry Short Tons Ore	Ounces Gold	Pounds Copper	Net Value of Ore at Mine Bin
6211.581	432.87	261,356	$37,453.06

As of Sept. 1, 1944, the financial condition of the project is estimated as follows:

Cash on hand in loan account - - - - - - - - - - -	$3,178.50	
10% of premiums due for Aug. estimated - - - - -	500.00	
Est. value of 5 cars of ore in transit - - - - -	2,800.00	
Total accounts receivable - - - - - - -		$6,478.50
Unpaid payrolls due Aug. 15-31 - - - - - - - - - -	$1,300.00	
Bills payable - - - - - - - - - - - - - - - - - -	800.00	
Advances to Company - - - - - - - - - - - - - - -	3,000.00	
Total accounts payable - - - - - - - -		$5,100.00
Net operating funds - - - - - - - - - - - - - - -		$1,378.50

The mine is currently producing 12 car loads of ore per month but is working only 8 men on one shift due to the shortage of labor. Unfortunately, labor conditions seem to be getting worse in this area.

About a month ago the change house unaccountably burned down, so there was some additional expense to construct a new one. The compressor is now paid for and all of the equipment is in good condition.

The Bureau of Mines have recently started diamond drilling the Bullard Mine. They are using a small prospect drill capable of a depth of about 250' and as now planned they will be able to drill only three holes as they are short of funds. The first hole was drilled about 150 feet east of the stopes mined under loan funds. From 42 to 48 feet they cored a low grade copper vein, but since the cores are sent to Reno, Nevada, for assay it will be some time before the assay results are available. The hole was drilled to a depth of 75 feet without encountering further ore. They have now started drilling their second hole which will also be near the margin of the present stopes. It is

my opinion that to thoroughly explore this flat vein, at least 15 holes should be drilled.

While there is no blocked out ore there is currently exposed in the mine a face of ore 4 feet wide and 60 feet long that is now being mined and shipped. I estimate that there is now enough ore exposed to provide for the next three months operation of the mine.

WILLIAM B. MAITLAND
Supervising Engineer

P.S. $9/ton

Progress Report

Bulland Gold Mines Ltd
ND - 5391
Sept ~~5~~ 7 1944

On Aug 31, 1944 I visited this project in order to ascertain the progress being made.

From Nov 1, 1943 to Aug 1, 1944 the production of the mine has been as follows:-

Dry Short Tons Ore	Ounces Gold	Pounds Copper	Net Value of Ore at Mine Bin
6211.581	432.87	261,356	$37,453.06

As of Sept 1, 1944 the financial condition of the project is estimated as follow:-

Cash on hand in loan account	3178.50	
10% of premiums due for Aug. estimated	500.00	
Est. value of 5 cars of ore in transit	2800.00	
Total accounts receivable		$6478.50
Unpaid payrolls due Aug 15-31	$1300.00	
Bills payable	800.00	
Advances to company	3000.00	
Total accounts payable		$5100.00
Net operating funds		$1378.50

The mine is currently producing 12 car loads of ore per month but is working only 8 men on one shift due to the shortage of labor. Unfortunately labor conditions seem to be getting worse in this area ~~altho, the grade of ore~~

About a month ago the change house unaccountable burned down so there was some additional expense to construct

a new one. The compressor is now paid for and all of the equipment is in good condition.

The Bureau of Mines have recently started diamond drilling the Bullard mine. They are using a small prospect drill capable of a depth of about 250' and as ~~presently~~ now planned they will be able to drill only three holes as they are short of funds. The first hole was drilled about 150 feet east of the stopes mined under loan funds. From 42 to 48 feet they cored a low grade copper vein but since the cores are sent to Reno, Nevada for assaying it will be some time before the assay results are available. The hole was drilled to a depth of 75 feet without encountering further ore. They have now started drilling their second hole which will also be near the margin of the present stopes. It is my opinion that to thoroughly explore this flat vein at least 15 holes should be drilled.

While there is no blocked out ore in ~~the mine~~ there is currently exposed in the mine a face of ore 4 feet wide and 60 feet ~~wide~~ long that is now being mined and shipped. I estimate that there is now enough ore exposed to provide for the next three months operation of the mine.

Wm B Mallard

---

325 Heard Building
Phoenix, Arizona
July 28, 1944

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

-Re Bullard Gold Mines, Inc.-
Docket No. ND-5391

The enclosed letter from the Bullard Gold Mines, Inc., in regard to the granting of a sublease, is self explanatory. If you will refer to the claim map you will see that the claims under question are at a considerable distance from the area which is now being worked under loan funds, and these claims contain a separate and distinct vein from the Home Vein which is now being worked and upon which the project was originally established. It is my opinion that this lease will not in any way interfere with the operation of the mine under loan funds, and the income obtained from such a lease would be of assistance in the repayment of the loan. Therefore, I feel that it would be to the best interests of this Corporation if this lease were approved, subject of course to any modifications or additions you feel are necessary.

Sincerely yours,

Wm. B. Maitland
Supervising Engineer

WBM-bkb
Enc -letter

I have discussed this with Mr. Maitland, and I approve.

W. B. Gohring, Supervising Engineer

---

325 Heard Building
Phoenix, Arizona
July 28, 1944

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

-Re Bullard Gold Mines, Inc.-
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Sincerely yours,

Wm. B. Maitland
Supervising Engineer

WBM-bkb
Enc -letter

I have discussed this with Mr. Maitland, and I approve.

W. B. Gohring, Supervising Engineer

July 27, 1944

Mr. William B. Maitland
325 Heard Building
Phoenix, Arizona

Re: Bullard Gold Mines, Inc.
Docket No. ND-5391

Dear Sir:

A certain Mr. Harold Winslow and Leonard Winslow have applied for a lease on four of the claims of the Bullard Mine. I believe them to be experienced miners and they have the necessary equipment with which to carry on a small operation. Therefore, I would like to request from the Reconstruction Finance Corporation their approval to such a lease, which would contain the following terms.

1. Lessees to do 48 man shifts of eight hours each, every month.

2. The lease to run for a period of three years unless sooner cancelled by 30 days' notice.

3. Lessees to have 30 days to remove their machinery and equipment.

4. Lessees, if they employ additional men will carry compensation insurance and pay all payroll taxes and withholding taxes.

   They further agree not to incur any debts or obligations, and will comply with all State mining laws; and in addition will not leave any of the underground workings inaccessible, and will do all the necessary timbering, said timbering to remain after the lease has been cancelled.

5. All operations of the lessee will be at their sole expense and the Bullard Gold Mines, Incorporated and/or the Reconstruction Finance Corporation will not be liable in any way.

6. All ore to be shipped in the name of the Reconstruction Finance Corporation Auxiliary Account; and they further agree to pay a twenty per cent royalty on net smelter returns and a ten per cent royalty on all premiums: but if it is necessary for the Bullard Gold Mines, Inc. to pay a royalty on the premiums to the fee owners of the property, the lessees agree at that time to pay a twenty per cent royalty on the premiums instead of the ten per cent (at the present time, Bullard Gold Mines is paying a ten per cent royalty on net smelter returns to the fee owners of the property.

7. All income, profit, royalties, etc., from this lease agreement will be paid into the Reconstruction Finance Corporation Auxiliary Account to be used in amortizing the present loan.

8. In case the Bullard Gold Mines, Inc. forfeits their lease from the fee owners on the property, the sub-lessees agree that no damages shall be asked from the Bullard Gold Mines, Inc., and they shall hold the Bullard Gold Mines, Inc. blameless and without liability for such forfeiture regardless of the causes.

9. This lease is subject, of course, to the approval of the Reconstruction Finance Corporation. Any dispute arising under this lease which would in any way affect the equity of the Reconstruction Finance Corporation, such dispute would be arbitrated and settled by the representatives of the Reconstruction Finance Corporation.

10. The four claims comprising this lease are called the Sulla, the Gustus, Chancellor and the South Wing.

The area under question is some several thousand feet from the present home vein now being worked and contains separate and distinct veins. The proposed leased area while it is included under the R.F.C. loan was never considered by us to justify working thereon, and I believe that this lease if approved would aid in the repayment of the RFC loan and would in no way be detrimental to the interest of the Government.

Trusting that you will see your way clear to approve this lease, which I have not as yet formally drawn up until I obtain your approval, but which will contain the terms as outlined, I am,

Sincerely yours,

J. P. Smith, Vice-President

325 Heard Bldg.
Phoenix, Arizona
May 13, 1944

Mr. J. J. Runner
Box 647
Haughton, Michigan

Re: Bullard Gold Mines, Inc.
Docket No. ND-5391

Dear Joe:

I am enclosing one copy each of the reports for a five-month period on the Bullard Mine which I think might be of interest to you for your report. During the month of April, they shipped 27 cars of ore which had an approximate weight of 55 tons per car, which will considerably exceed the March shipments. As a consequence, the operating cost per ton was less, as we did not employ any additional men. Mr. Smith intends to get another portable compressor and start work on the north side of the hill with the idea of getting out a small tonnage of high grade ore.

Eric left me a copy of your field map which I appreciate very much. I was wondering if you could tell me what the reaction of the Bureau of Mines was to drilling the project and whether it would be advisable for me to contact the Bureau of Mines, also if diamond drilling would more or less tell us whether we should plan for a long run development program or take out the ore that is now exposed and call it square.

Mr. Smith joins me in thanking you for your very kind cooperation and help you have given us on the project.

Kindest personal regards I am,

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer

WBM:MHW
Encs.

325 Heard Building
Phoenix, Arizona
March 15, 1944

Mr. Landon F. Strobel
Executive Secretary of the Quota Committee
Premium Price Plan for Copper
War Production Board
Department 7103, Washington, D.C.

-Re: Bullard Gold Mines, Inc.-

Dear Sir:

Mr. J. P. Smith of the Bullard Gold Mines, Inc., has informed me that he is applying for an increase in his premium price for copper and has asked me for certain data on the operation of the mine to date. These data are incorporated in the letter he has written you and which is enclosed with this letter.

The Reconstruction Finance Corporation has granted the Bullard Gold Mines a $15,000 loan, of which amount they have repaid on January 1st, $3,000; but they now find that the ore is not of sufficient grade to allow them to do the necessary development work in order to keep the mine on a steadily producing basis.

Briefly, the mine consists of a nearly flat vein outcropping on three sides of a small hill, and their operation to date has consisted of stoping the ore from the outcrop back into the hill at two points along the outcrop. They have made as yet no profit on their operation, due to the fact that they are attempting to mine the ore on a large tonnage basis by using slushers in open room and pillar stopes.

The ore, according to my sampling and the sampling of various other engineers, averages approximately 0.020 oz. Gold and 2.6% in copper. However, due to waste dilution, the fact that they have started the stope at a convenient point and not at the richest part of the vein, the ore mined to date has not been up to this grade. Also, up to February 1st, the Superintendent employed at the mine was not satisfactory and they have now remedied this by employing the services of Mr. Joseph P. ~~Kline~~; and for the month of March they expect to produce at least 25 cars of ore.

Klein

The Hayden smelter is very desirous of obtaining this highly siliceous ore as a flux, and according to my figures, the mine will contain at least one million pounds of copper.

I feel, however, that unless a larger premium price is obtained for the copper produced, it may be necessary to curtail operations and mine only the high-grade areas of the vein, which would thus materially decrease the total production of copper and the tonnage of siliceous ore to be shipped. It is even possible that the operations might be suspended due to the fact that their capital reserve is rapidly being depleted.

Also, unless additional premium price is obtained, it will be impossible to do any advance development work, and this condition has the inherent danger of allowing the mine to reach a point at which all the readily available ore as exposed will be exhausted and the operators will not be able to drive ahead through the leaner portion of the vein until they reach again the well mineralized areas.

Therefore, it is my opinion that if it is in line with the policy of your Department, this project is deserving of a higher premium price for copper.

Thanking you for your past courtesies, and hoping that this information will be of service to you in your decision, I am,

Sincerely yours,

WILLIAM B. MAITLAND
Supervising Engineer

Enc -

Letter from Mr. J. P. Smith

WBM-bkb

Extra Copy

325 Heard Building
Phoenix, Arizona
February 10, 1944

Mr. E. C. Corbel
Office of Defense Transportation
Security Building
Phoenix, Arizona

Re: Bullard Gold Mines, Inc.
Docket No. ND-5391

Dear Sir:

Mr. S. A. Spear has asked me to write you in regard to the Bullard Mine. He informs me that it is his intention to use two (2) - 5 Yard Dump Trucks in the hauling of the ore from Bullard Mine to the railroad at Aguila, a distance of 12 miles. The Bullard Mine, which is operating under a loan from the R. F. C., is producing siliceous copper ore that is advantageous to the war effort as a strategic metal and the ore is also in demand by the smelters as a flux.

Sincerely yours,

WILLIAM B. MAITLAND
Supervising Engineer

WBM:dem

325 Heard Building
Phoenix, Arizona
September 21,1943

Arizona Mining Supply Corp.,
Prescott, Arizona.

Attention:- Mr. R. Liggett

Dear Mr. Liggett:-

Received both of your catalogs, and wish to thank you for them. They will be extremely useful to us on some of our loan jobs.

The Bullard Gold Mines were refused a priority to buy a new compressor inasmuch as the Metals Reserve Company had diesel driven compressor which which they wish to sell so that the War Production Board referred the Bullard to the owner of this compressor. Since the price was too high, Mr. Smith did not take this offer, but has located a used compressor locally in Phoenix. He has not as yet started operations, and I trust that he will get in touch with you for some of the other equipment he needs.

Thanking you for your courtesy in this matter, I am,

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer.

WBM;mr

325 Heard Building
Phoenix, Arizona
September 21,1943

Bullard

Arizona Mining Supply Corp.,
Prescott, Arizona.

Attention:- Mr. R. Liggett

Dear Mr. Liggett:-

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Thanking you for your courtesy in this matter, I am,

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer.

WBM;mr

325 Heard Building
Phoenix, Arizona
September 20,1943

Bullard Gold Mines, Inc.,
404 Heard Building,
Phoenix, Arizona.

Attention:- Mr. J. P. Smith,
Vice President.

Dear Sir:-

On my last trip to visit your mine near Aguila, I noticed that the recent rains have made the road from Aguila to the mine nearly impassa ble. I suggest that you immediately improve this road as a good road will be necessary before you can ship ore to the railroad at Aguila. Since you planned to ship 50 tons per day, I cannot stress too strongly the advisability of getting this road in first-class shape.

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer.

WBM:mr

525 Heard Building
Phoenix, Arizona
September 20,1943

Bullard Gold Mines, Inc.,
404 Heard Building,
Phoenix, Arizona.

Attention:- Mr. J. P. Smith,
Vice President.

Dear Sir:-

On my last trip to visit your mine near Aguila, I noticed that the recent rains have made the road from Aguila to the mine nearly impassa ble. I suggest that you immediately improve this road as a good road will be necessary before you can ship ore to the railroad at Aguila. Since you planned to ship 50 tons per day, I cannot stress too strongly the advisability of getting this road in first-class shape.

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer.

WBM:mr

325 Heard Building
Phoenix, Arizona
August 23, 1943

Mr. King C. Laylander
Chief Mining Engineer
Pacific Division
U. S. Army Engineers
351 California Street
San Francisco, California

Dear Sir:

Pursuant to your request, I am giving you a brief outline of the status of the Bullard Gold Mines, Inc., who have under operation a copper-gold property located 12½ miles North of Aguila, Arizona.

Accompanying this letter are a number of maps, reports, and general correspondence substantiating and describing in detail the conditions now prevailing at this property.

The Bullard Mine has been held under a lease and bond by the Bullard Gold Mines, Inc., 404 Heard Building, Phoenix, Arizona, for a number of years, and they have shipped approximately 5,000 tons of ore to the smelter. They have just been granted a $15,000 loan by the Reconstruction Finance Corporation in order to place the property on a sustained shipping basis.

The mine has been examined by me and by various competent engineers in the past, and it is my opinion and the consensus of opinion of these engineers that the mine contains at least 20,000 tons of partially developed ore that will average .2 oz. of gold and 2.63% in copper.

Since the ore contains over 73% silica, the Hayden smelter, of the American Smelting and Refining Company, is desirous of obtaining this ore as a flux, and as a

result have reduced their smelting rate from $3.50 per ton to $1.75, and have agreed to accept one carload per day of this ore.

I estimate that the mine will produce nearly one million pounds of copper within the next year and a half if it is operated upon a 50-ton per day basis.

Since most of the preparatory work has been completed, I believe that within a month after operations start the mine can produce at least fifty tons per day and maintain this production rate.

Attached to this letter is an analysis of the estimated cost of operation, showing in detail the various costs and the indicated net profit. It was the intention of the Bullard Gold Mines to start operation within the next two weeks, and they are now negotiating for the purchase of equipment and the necessary men to operate the mine.

It is my opinion that this property, with the adequate finances recently granted by the R. F. C., will soon become a substantial producer of silicious copper fluxing ore and should return a substantial profit on the operation of the mine.

If I can be of any further assistance to you, please call on me and I would appreciate any effort that can be made to allow this property to go into production.

Sincerely yours,

Wm. B. Maitland
Supervising Engineer

Encs.

WBM-b

325 Heard Building
Phoenix, Arizona

ANALYSIS OF ESTIMATED COST AND PROFIT

Ore Estimation:

20,000 tons of Copper silicious ore averaging 0.20 oz. gold and 2.63% copper across 3.2 feet.

Smelter analysis

78.2%	Insoluble
73.0%	Silica
6.8%	Iron
0.6%	Calcium oxide
4.6%	$A l_2 O_3$

Recoverable copper content at smelter for 20,000 tons would be 847,400 lbs. copper

Smelter payments per Ton (A S & R Smelter, Hayden, Ariz.)

Gold 0.20 oz @ $32.31825/ oz =	$ 6.46
Copper 2.63% x 2000 lbs. = 52.6 lbs - 8 lbs = 44.6 x 95% x $0.0905 =	3.83
Total smelter payments -	$10.29

Premium payment on Copper

2.63% x 2000 x 97% x $0.05/lb	$ 2.55
Total value of ore -	$12.84
	3.93
	16.77

Charges Per Ton (marketing)

Smelting base charge	$1.75
Tax	.03
Railroad freight	2.00
3% tax	.06
Hauling	1 .50
3% tax	.03
Moisture 3%	.09
Royalty 10% of $4.83	.48

Total cost except mining	$ 5.94
Estimated net profit before mining cost reduction	$ 6.90
Mining cost estimate d by Brent Rickard . . .	4.00
Estimated net profit . . .	$ 2.90

325 Heard Building
Phoenix, Arizona
August 5, 1943

D. M. Rait - Chief Mining Section - RFC - Washington D C

Docket No. 5544 - Bullard Gold Mines, Inc.

In reply to your letter of July 31, Mr. Gohring has asked me to furnish you with the data you requested. Attached herewith is a contract between the American Smelting & Refining Company and the Bullard Gold Mines, Inc. together with the telegram of August 5th amending in part this contract. Briefly, the contract calls for an acceptance of one carload of ore per day at a base smelting charge of $1.75 per ton on net smelter values up to $10 per ton. The contract does not specifically state the minimum silica content necessary. Since this property has shipped over five thousand tons to the Hayden smelter with an average silica content of 72%, Mr. Rickard of the AS&R Co. therefore did not consider it necessary to state the minimum silica.

In Mr. Rickard's letter of July 23, he stated that the base smelting rate would be $1.75 per ton plus a surcharge of .72, plus a bullion tax of one cent, or a total of $2.48. These are the same figures we have previously used. The surcharge of .72 is based upon a net smelter value for the ore of $14.63, which was the average value of all of the Bullard Gold Mine shipments and not the average value that I have figured in my estimates.

The .72 surcharge is ten per cent of the difference between $14.63, which was the net smelter value of the ore, and $7.50 which at that time was the base value upon which smelter payments are figured. This has now been raised to $10. as is shown by the enclosed telegram.

My figures previously sent to Washington anticipated that the net smelter value of the ore before payment of premiums would be approximately $10.29; and hence would carry a smelter rate of $1.75. If, however, they are lucky enough to mine higher grade ore, it will not materially penalize the operation to pay a slightly higher smelter rate as is customary.

The figure of $2.54 given in your letter as including railroad freight, taxes, and moisture is an approximation based upon the higher grade ore previously shipped from this property. There is a three per cent tax on the freight charges for all ore shipped and a three per cent tax on the hauling of the ore to the railroad. The moisture in the ore which amounts to approximately three per cent will, according to my figures, amount to an approximate charge of nine cents per ton and I believe that will not materially affect our figures.

This morning I have just discussed with the freight agent in Phoenix the probability of obtaining $1.75 per ton freight rate from Aguila to Hayden. On silicious fluxing ores from Congress, Arizona, to Hayden (which is about the same distance as from Aguila to Hayden) there has been established an emergency rate of $1.75 per ton in order to make it possible to ship low grade fluxing ores that are found in this district. The agent has requested his head office to take the necessary steps to formally establish this $1.75 rate from Aguila to Hayden, and he informed me that it was his opinion there would be no difficulty in obtaining such a rate.

This new rate of $1.75 would be on all ores up to ten dollars. That is, the smelter value of the ore, less the smelting charge, must not exceed $10. Hence on my calculations we anticipated shipping ore that had a net smelter value of $10.29 before the deduction of the smelting rate of $1.75. Therefore it would seem probable that practically all the ore shipped from this mine would carry the base freight rate of $1.75 per ton.

I do not know as yet the exact freight rates for ore between $10 and $15, but it would be small in comparison to the increased value of the ore. I hope that this information will clear up any misunderstanding as to the application of these rates.

WM. B. MAITLAND
Supervising Engineer

WBM-b
Encs
telegram
contract

My file

325 Heard Building
Phoenix, Arizona
July 31, 1943

D. M. Rait, Chief Mining Section, RFC, Washington

In re: 'Bullard Gold Mines - ND 5391

Enclosed please find a subordination of the $300 monthly payment on this property. This is merely a form that the applicant of the above docket is now having signed by the owners of the property, and I will forward to you the properly signed subordination when we receive it.

WM. B. MAITLAND
Supervising Engineer

Enc.
WBM-B

325 Heard Building
Phoenix, Arizona
July 28, 1943

Mr. H. Clifford Burton
Tropico Mine
Rosamond, Kern County
California

Dear Mr. Burton:

I have received your letter today in regard to the Bullard Mine. I certainly can appreciate your position in regard to labor conditions in operating this property, especially since you do not have a superintendent available to handle the operation. Mr. Smith appreciates your position in the matter, and sends his best regards.

Our heat wave lasted for three days, but it is cooler today. Maybe sometime in the future, I will get wind of a property with a better climate and maybe a little nearer to California, and will let you know; but it seems that most of the good properties are now being operated in some way or another.

Thank you for your prompt response, and with best wishes for the future, I am,

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer

WBM-b

325 Heard Building
Phoenix, Arizona
July 28, 1943

Mr. H. Clifford Burton
Tropico Mine
Rosamond, Kern County
California

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Thank you for your prompt response, and with best wishes for the future, I am,

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer

WBM-b

325 Heard Building
Phoenix, Arizona
July 28, 1943

Mr. J. E. Dietrich
Route 5, Box 150-B
Tucson, Arizona

Dear Sir:

Mr. George Tweedy of this office has suggested that I write to you, since you are interested in obtaining a property of merit to operate.

Some time ago I examined the Bullard Gold Mine, near Aguila, and I believe that this property has considerable merit under present prices for copper. I have no personal interest in this matter, but in order to facilitate the war effort, I believe someone should operate it.

The owner, Mr. J. P. Smith of Phoenix, is not in position to put the mine in production, although I believe that it warrants it. It is my opinion that it would take about $15,000 to properly equip and put the mine on production. The greater part of this sum would consist of equipment such as a compressor, a slusher and power drilling equipment.

Roughly, the mine contains at least 20,000 tons of ore that I believe will assay .2 oz of gold and 2.63 of copper. Since this ore contains over 73% silica, the smelter has granted Mr. Smith a favorable smelting rate of $1.75 per ton. The freight rate is $1.75 per ton, and the trucking cost is one dollar. Recently, Mr. Smith was granted an additional bonus on all his copper production of 7.7 cents per pound, in addition to the regular 17¢ price. As you can see from these figures, there is a large possible profit in this operation.

The mine is sufficiently opened up so that there will be no dead work required, and I believe that the first ton of rock blasted in the mine will be ore that can be shipped to the smelter; and from there on, it

will be up to the ability of the operator as to the amount of ore that can be shipped each day.

If you would be interested in a deal of this kind, I suggest that you contact Mr. Smith on your next trip to Phoenix, as he is also located in the Heard Building. If I do not happen to be in the office, Mr. Gohring can put you in touch with Mr. Smith.

Please advise me if you would be interested in such a proposition as Mr. Smith is contemplating another proposition.

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer

WBM-B

In re: Bullard Gold Mines, Inc -
Docket No. ND-5391

Dear Mr. Smith:

We note that you are paying Mr. Joseph P. Klein, your Superintendent, a salary in excess of $2400 per year, and as you undoubtedly have noted in the Borrower's Agreement, it is necessary to obtain the written permission of the Division Chief retroactive to the date of employment before such salary can be paid. Therefore I suggest that you write Mr. D. M. Rait, RFC, Washington, D. C., requesting this permission. I realize that you now have in the person of Mr. Joseph P. Klein a competent and experienced mine superintendent and it is my opinion that his services are valuable to you in your operation of the mine.

Sincerely yours,

WM. B. MAITLAND
Supervising Engineer

WBM/bkb

cc/Tully

87.17
49.53
91.62
228.32

ANALYSIS OF ESTIMATED COST AND PROFIT

Ore Estimation:

20,000 tons of copper silicious ore, averaging 0.20 oz. gold and 2.63% copper across 3.2 feet.

.12319
.08598
20917

Smelter analysis:

78.2% insoluable
73.0% silica
6.8% iron
0.6% calcium oxide
4.6% Al_2O_3

128
256

142
284

Recoverable copper content at smelter for 20,000 tons would be 892,000 lbs. copper.

Smelter payments per Ton (AS&R Smelter, Hayden, Arizona)

Gold	0.20 oz @ $32.31825/oz =	$ 6.46
Copper	2.63% x 2000 lbs. = 52.6 lbs - 8.0 lbs = 44.6 x 95% x $0.0905 =	$3.83
	Total smelter payments	$ 10.29

Premium Payment on Copper:

2.63% x 2000 x 97% x $0.127/lb.	$ 6.48
Total value of ore	$ 16.77

Charges per ton (marketing)

Smelting base charge	$ 1.75
Tax	.03
Railroad freight	1.85
3% tax	.06
Hauling	1.00
3% tax	.03
Moisture 3%	.09
Royalty 10% of $6.51	.65

Total cost except mining	$ 5.46
Estimated net profit before mining cost deduction	$ 11.31
Mining cost estimated	$ 5.00
Total estimated net profit	$ 6.31
Total estimated profit on 20,000 tons	$126,200.00

IN THE DISTRICT COURT OF THE UNITED STATES

FOR THE DISTRICT OF ARIZONA

UNITED STATES OF AMERICA, Petitioner, -vs- C.M. KIMMEL, IVAN KUYKENDALL, E.E. RODGERS, HAROLD D. SHONTZ, WENCESLADA OLEA, S.G. MADRIL, ESTATE AND UNKNOWN HEIRS OF JESUS MADRIL, Deceased, ANGEL MADRIL, R.H. THOMPSON, JOHN R. HARGUS, GEORGE CLINE, KENNETH HODGMAN, CARL MILLER, F.C. TATUM, TOM MILLER, HENRY STIEG, R.E. MILLER, THOMAS KELLY, J.E. MATTESON, PETER MASSE, JESSE B. WILBANKS, ILA MAY GRAY, ELIAS L. OROSCO, PEDRO AGUALLO, WILLIAM H. GEDDES, ERNEST R. HALL, EMERY POOR, MANGANESE ORE COMPANY, a corporation, EMERY L. WILKINS, FLORENCE BRUMLEY, JAMES D. TIPTON, WILLIAM G. KNEELAND, WALTER E. KEHOE, JESUS MADRIL, MRS. JOE NOLACHEK, ANNA C. MOLLOY, S.J. SNAPP, JOSEPH WHITEHOUSE, BLACK GIANT MINES COMPANY, a corporation, VINDICATOR MINING COMPANY, a corporation, HARCUVAR COPPER COMPANY, a corporation, F.L. GARLINGHOUSE, ESTATE AND UNKNOWN HEIRS OF RICHARD W. BULLARD, Deceased, ESTATE AND UNKNOWN HEIRS OF JOHN C. BULLARD, Deceased, W.R. BUNKER, R.E. BUNKER, R.E. LUCAS, ESTATE AND UNKNOWN HEIRS OF ROY R. MacDONALD, Deceased, G.D. TRANZETTEL, EDMUND D. TRANZETTEL, LAURA R. MacDONALD, ELAINE MacDONALD, LOUISE MacDONALD, GEORGE A. MAUK, CHARLES G. FLEMING, GEORGE H. ANDREWS, CENTROID CONSOLIDATED MINES, a corporation, W.B. HARRIS, RHODA HATCH NOHLECHEK, TOM SAUNDERS, NED BUCHANAN, WILLIAM WILKINSON, DAN E. CLINTON, WINSTON R. RICE, CARRELL EVANS, CARL BRALEY, MARTIN SMITH, VIRGINIA J. HARRIS, ROBERT W. HARRIS, R.S. RODGERS, MRS. DEBE W. HUBBARD, ANNA C. MOLLOY, ARIZONA MINING COMPANY, a corporation, FREDERICK L. GARLINGHOUSE, R.W. BULLARD, J.C. BULLARD, CLARA-SWANSEA MINING COMPANY, a corporation, CLARA CONSOLIDATED GOLD & COPPER MINING COMPANY, a corporation, FRANK W. SHEDD, Jr., STATE OF ARIZONA, COUNTY OF YUMA, COUNTY OF YAVAPAI, and the UNKNOWN OWNERS AND CLAIMANTS of certain lands in the Counties of Yuma and Yavapai, State of Arizona, Respondents.	No. Civ. 422 Phoenix S U M M O N S

Real Estate Branch
Chief of Eng. Office
Col John O'Brien

THE PRESIDENT OF THE UNITED STATES OF AMERICA TO THE FOREGOING NAMED RESPONDENTS:

YOU ARE HEREBY SUMMONED and required to appear and defend the foregoing entitled action in the foregoing entitled court within TWENTY DAYS, exclusive of the day of service, after service of this summons upon you if served within the State of Arizona, or within THIRTY DAYS, exclusive of the day of service, if served without the State of Arizona, and you are hereby notified that in case you fail so to do, judgment by default will be rendered against you for the relief demanded in the petition.

The name and address of petitioner's attorney is Chas A. Carson, 419 Title and Trust Building, Phoenix, Arizona.

YOU ARE FURTHER NOTIFIED that, in and by said petition, the above and foregoing named petitioner seeks and demands to have condemned for public use in connection with the establishment of Camp Bouse, Arizona, a term for years ending June 30, 1944, extendable for yearly periods thereafter during the existing national emergency at the election of the United States, notice of which election shall be filed in the proceeding at least 30 days prior to the end of the term thereby taken, or subsequent extensions thereof, together with the right to remove within a reasonable time after the expiration of the term or extensions thereof, any and all improvements and structures placed thereon by, or for, the United States, subject, however, to existing easements for public roads and highways, for public utilities, for railroads and for pipe lines; said lands being situate in the Counties of Yuma and Yavapai, State of Arizona, and being more particularly described as follows:

> Beginning at the Northeast Section Corner of Section One (1), Township Nine (9) North, Range Ten (10) West, of the Gila and Salt River Base and Meridian, Yavapai County, Arizona; thence South one mile to the Northwest corner of Section 7, Township 9 North, Range 9 West, Gila and Salt River Base and Meridian; thence East one mile to the Northeast corner said section; thence South two miles to the Northwest corner of Section 20; thence East one mile to the Northeast corner of said section; thence South one mile to the Northwest corner of Section 28; thence East one mile to the Northeast corner said section; thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner Section 31; thence South one mile to the Southeast corner said section; thence West two miles to the Northeast corner Section 2, Township 8 North, Range 10 West; thence South one mile to the Southeast corner of said section; thence West three miles to the Northeast corner of Section 8; thence South one mile to the Southeast corner said section; thence West two miles to the Northeast corner of Section 13, Township 8 North, Range 11 West (unsurveyed), Gila and Salt River Base and Meridian, in Yuma County, Arizona; thence

South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 22; thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 29; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 31; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section One (1), Township Seven (7) North, Range Twelve (12) West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner said section; thence West one mile to the Northeast corner of Section 11; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 15; thence South one mile to the Southeast corner of said section; thence West five miles to the Northeast corner of Section 23, Township 7 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 28; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 32; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 6, Township 6 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 12, Township 6 North, Range 14 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 14; thence South two miles to the Southeast corner of Section 23; thence West one mile to the Northeast corner of Section 27; thence South one mile to the Southeast corner of said section; thence West two miles to the Southwest corner of Section 28; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 20; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 18; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 12, Township 6 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 2; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 34, Township 7 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 28; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 20; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 18; thence North two miles to the Northwest corner of Section 7; thence West one mile to the Southwest corner of Section 1, Township 7 North, Range 16 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 35, Township 8 North, Range 16 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North two miles to the Northwest corner of Section 26; thence East one mile to the Southwest corner of Section 24; thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 18, Township 8 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 8; thence North two miles to the Northwest corner of Section 5; thence East one mile to the Southwest

corner of Section 33, Township 9 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 26; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 19, Township 9 North, Range 14 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner said section; thence East two miles to the Southwest corner Section 16; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 11; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 6, Township 9 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 32, Township 10 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence East three miles to the Southwest corner of Section 26; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 19, Township 10 North, Range 12 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 17; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 10; thence North one mile to the Northwest corner of said section; thence East four miles to the Northeast corner of Section 7, Township 10 North, Range 11 West, Gila and Salt River Base and Meridian (surveyed); thence South one mile to the Southeast corner of said section; thence East one mile to the Northeast corner of Section 17; thence South one mile to the Southeast corner of said section; thence East two miles to the Northeast corner of section 22; thence South one mile to the Southeast corner of said section; thence East two miles to the Northeast corner of Section 25; thence South one mile to the Southeast corner of said section; thence East five miles to the Northeast corner of Section 35; Township 10 North, Range 10 West, Gila and Salt River Base and Meridian, in Yavapai County, Arizona; thence South one mile to the Southeast corner said Section; thence East one mile to the point of beginning.

Reference is hereby made to said petition for description of said tract of land and you are hereby notified to appear and show cause why the above described lands should not be condemned as prayed for in said petition.

WITNESS the Honorable Albert M. Sames, Judge of said District Court, this 13th day of August, of the year of our Lord one thousand nine hundred forty-three and of our independence the one hundred sixty-eighth year.

EDWARD W. SCRUGGS, Clerk
United States District Court
for the District of Arizona

By _____ GEN. ROBY
Deputy Clerk

(SEAL)

IN THE DISTRICT COURT OF THE UNITED STATES

FOR THE DISTRICT OF ARIZONA

UNITED STATES OF AMERICA, Petitioner, -vs- C.M. KIMMEL, IVAN KUYKENDALL, E.E. RODGERS, HAROLD D. SHONTZ, WENCESLADA OLEA, S.G. MADRIL, ESTATE AND UNKNOWN HEIRS OF JESUS MADRIL, Deceased, ANGEL MADRIL, R.H. THOMPSON, JOHN R. HARGUS, GEORGE CLINE, KENNETH HODGMAN, CARL MILLER, F.C. TATUM, TOM MILLER, HENRY STIEG, R.E. MILLER, THOMAS KELLY, J.E. MATTESON, PETER MASSE, JESSE B. WILBANKS, ILA MAY GRAY, ELIAS L. OROSCO, PEDRO AGUALLO, WILLIAM H. GEDDES, ERNEST R. HALL, EMERY POOR, MANGANESE ORE COMPANY, a corporation, EMERY L. WILKINS, FLORENCE BRUMLEY, JAMES D. TIPTON, WILLIAM G. KNEELAND, WALTER E. KEHOE, JESUS MADRIL, MRS. JOE NOLACHEK, ANNA C. MOLLOY, S.J. SNAPP, JOSEPH WHITEHOUSE, BLACK GIANT MINES COMPANY, a corporation, VINDICATOR MINING COMPANY, a corporation, HARCUVAR COPPER COMPANY, a corporation, F.L. GARLINGHOUSE, ESTATE AND UNKNOWN HEIRS OF RICHARD W. BULLARD, Deceased, ESTATE AND UNKNOWN HEIRS OF JOHN C. BULLARD, Deceased, W.R. BUNKER, R.E. BUNKER, R.E. LUCAS, ESTATE AND UNKNOWN HEIRS OF ROY R. MacDONALD, Deceased, G.D. TRANZETTEL, EDMUND D. TRANZETTEL, LAURA R. MacDONALD, ELAINE MacDONALD, LOUISE MacDONALD, GEORGE A. MAUK, CHARLES G. FLEMING, GEORGE H. ANDREWS, CENTROID CONSOLIDATED MINES, a corporation, W.B. HARRIS, RHODA HATCH NOHLECHEK, TOM SAUNDERS, NED BUCHANAN, WILLIAM WILKINSON, DAN E. CLINTON, WINSTON R. RICE, CARRELL EVANS, CARL BRALEY, MARTIN SMITH, VIRGINIA J. HARRIS, ROBERT W. HARRIS, R.S. RODGERS, MRS. DEBE W. HUBBARD, ANNA C. MOLLOY, ARIZONA MINING COMPANY, a corporation, FREDERICK L. GARLINGHOUSE, R.W. BULLARD, J.C. BULLARD, CLARA-SWANSEA MINING COMPANY, a corporation, CLARA CONSOLIDATED GOLD & COPPER MINING COMPANY, a corporation, FRANK W. SHEDD, Jr., STATE OF ARIZONA, COUNTY OF YUMA, COUNTY OF YAVAPAI, and the UNKNOWN OWNERS AND CLAIMANTS of certain lands in the Counties of Yuma and Yavapai, State of Arizona, Respondents.	No. Civ. 422 Phx. PETITION IN CONDEMNATION

This petition in condemnation of the United States of America, petitioner herein, by F.E. Flynn, United States Attorney for the District of Arizona, and Chas. A. Carson, Special Attorney, Lands Division, Department of Justice, respectfully shows:

I

These proceedings are brought by the United States of America, petitioner, under and pursuant to the Act of Congress approved August 18, 1890 (26 Stat. 316), as amended by the Acts of Congress approved July 2, 1917 (40 Stat. 241), April 11, 1918 (40 Stat. 518; 50 U.S.C. sec. 171), and March 27, 1942 (Public Law 507 - 77th Congress); the Act of Congress approved July 1, 1943 (Public Law 108 - 78th Congress); and all Acts supplementary to or amendatory thereof.

II

That under authority in him vested by said Acts of Congress, the Secretary of War has found and determined that it is necessary and advantageous to the interest of the United States of America to acquire, by condemnation under judicial process, for use in connection with the establishment of Camp Bouse, Arizona, a term for years ending June 30, 1944, extendable for yearly periods thereafter during the existing national emergency at the election of the United States, notice of which election shall be filed in the proceeding at least 30 days prior to the end of the term thereby taken, or subsequent extensions thereof, together with the right to remove within a reasonable time after the expiration of the term or extensions thereof, any and all improvements and structures placed thereon by, or for, the United States, subject, however, to existing easements for public roads and highways, for public utilities, for railroads and for pipe lines; and said Secretary of War has requested that these proceedings be instituted for the condemnation of said term in the lands hereinafter described and the taking of immediate possession of said lands for said purposes, which action has been authorized by the Attorney General of the United States.

III

That the lands hereinabove referred to, the immediate possession of which is sought in this action, are situate in the County of Yuma and the County of Yavapai, State of Arizona, and are more particularly described as follows:

Beginning at the Northeast Section Corner of Section One (1), Township Nine (9) North, Range Ten (10) West, of the Gila and Salt River Base and Meridian, Yavapai County, Arizona; thence South one mile to the Northwest corner of Section 7, Township 9 North, Range 9 West, Gila and Salt River Base and Meridian; thence East one mile to the Northeast corner said section; thence South two miles to the Northwest corner of Section 20; thence East one mile to the Northeast corner of said section; thence South one mile to the Northwest corner of Section 28; thence East one mile to the Northeast corner said section; thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner Section 31; thence South one mile to the Southeast corner said section; thence West two miles to the Northeast corner Section 2, Township 8 North, Range 10 West; thence South one mile to the Southeast corner of said section; thence West three miles to the Northeast corner of Section 8; thence South one mile to the Southeast corner said section; thence West two miles to the Northeast corner of Section 13, Township 8 North, Range 11 West (unsurveyed), Gila and Salt River Base and Meridian, in Yuma County, Arizona; thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 22; thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 29; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 31; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section One (1), Township Seven (7) North, Range Twelve (12) West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner said section; thence West one mile to the Northeast corner of Section 11; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 15; thence South one mile to the Southeast corner of said section; thence West five miles to the Northeast corner of Section 23, Township 7 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 28; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 32; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 6, Township 6 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 12, Township 6 North, Range 14 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 14; thence South two miles to the Southeast corner of Section 23; thence West one mile to the Northeast corner of Section 27; thence South one mile to the Southeast corner of said section; thence West two miles to the Southwest corner of Section 28; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 20; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 18; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 12, Township 6 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 2; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 34, Township 7 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile

to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 28; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 20; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 18; thence North two miles to the Northwest corner of Section 7; thence West one mile to the Southwest corner of Section 1, Township 7 North, Range 16 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 35, Township 8 North, Range 16 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North two miles to the Northwest corner of Section 26; thence East one mile to the Southwest corner of Section 24; thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 18, Township 8 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 8; thence North two miles to the Northwest corner of Section 5; thence East one mile to the Southwest corner of Section 33, Township 9 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 26; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 19, Township 9 North, Range 14 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner said section; thence East two miles to the Southwest corner Section 16; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 11; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 6, Township 9 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 32, Township 10 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence East three miles to the Southwest corner of Section 26; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 19, Township 10 North, Range 12 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 17; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 10; thence North one mile to the Northwest corner of said section; thence East four miles to the Northeast corner of Section 7, Township 10 North, Range 11 West, Gila and Salt River Base and Meridian (surveyed); thence South one mile to the Southeast corner of said section; thence East one mile to the Northeast corner of Section 17; thence South one mile to the Southeast corner of said section; thence East two miles to the Northeast corner of Section 22; thence South one mile to the Southeast corner of said section; thence East two miles to the Northeast corner of Section 25; thence South one mile to the Southeast corner of said section; thence East five miles to the Northeast corner of Section 35; Township 10 North, Range 10 West, Gila and Salt River Base and Meridian, in Yavapai County, Arizona; thence South one mile to the Southeast corner said Section; thence East one mile to the point of beginning, containing 351,360 acres, more or less.

IV

That according to the land records of Yuma and Yavapai Counties and other information available to petitioner, the names of the persons and corporations who have or may claim to have some right, title, estate, or interest in or to said lands, the nature of which is unknown to petitioner, are set forth as respondents in the caption of this case, and the said names are hereby referred to and made a part hereof as fully as though here repeated, and the said persons and corporations are joined as parties respondent herein.

V

That in addition to the parties heretofore named there may be other persons whose names are unknown to petitioner who may have or claim to have some right, title, estate, or interest in and to said lands or parts thereof or who may claim to be entitled to compensation with respect to the taking of a term of years in said lands, as herein prayed, and petitioner therefore makes parties respondent hereto generally all persons, known or unknown, who have or who may claim to have any right, title, estate, claim or interest in, to and out of said lands hereinbefore described or who may claim to be entitled to compensation with respect to the taking of said term of years and that said parties are herein referred to as the unknown owners and claimants of said lands.

VI

That under the Act of Congress approved July 1, 1943 (Public Law 507 - 78th Congress), funds have been appropriated for the acquisition of lands for the purposes hereinabove set forth and that sufficient funds are available and unexpended for the payment of just compensation in this proceeding and that under the Act of Congress approved August 18, 1890 (26 Stat. 316), as amended by the Acts of Congress approved July 2, 1917 (40 Stat. 241), April 11, 1918 (40 Stat. 518; 50 U.S.C. sec. 171), and March 27, 1942 (Public Law 507 - 77th Congress), petitioner is authorized to take immediate possession of the lands to the extent of the interest to be acquired in these proceedings.

VII

That all except certain portions of the hereinabove described lands are a part of the public domain, the indefeasible fee simple title to which is vested in the United States of America, subject, however, to certain outstanding rights,

titles, and interests, the exact character, nature, and extent of which petitioner has been unable to ascertain by the exercise of reasonable diligence; that petitioner is informed and believes and therefore avers that there are numerous persons and corporations who claim to have some right, title, and interest in and to said lands, the nature, character, and extent of which are to petitioner unknown, but petitioner is informed and believes and therefore avers that such claims are invalid and illegal; that the purpose of this proceeding is to subject any and all outstanding rights, titles, estates, interests, and claims of whatsoever nature to the right of the petitioner to use and occupy the said lands to the extent hereinabove described, upon payment of just compensation for all valid and legal claims, and that petitioner, therefore, by the institution of this proceeding or by the naming herein now or subsequently of any person or corporation as a defendant or respondent herein, does not admit the validity or legality of any outstanding right, title, estate, interest, or claim of whatsoever nature, but petitioner admits only liability for the payment of just compensation for the taking to the extent of the interest to be acquired of such outstanding rights, titles, interests, estates, and claims as may be proven to be legal and valid in this proceedings.

WHEREFORE, petitioner demands that an order granting to the petitioner immediate possession of the lands hereinabove described be entered herein and that there be condemned in these proceedings to the use of the petitioner a term for years ending June 30, 1944, extendable for yearly periods thereafter during the existing national emergency at the election of the United States, notice of which election shall be filed in the proceeding at least 30 days prior to the end of the term thereby taken, or subsequent extensions thereof, together with the right to remove within a reasonable time after the expiration of the term or extensions thereof, any and all improvements and structures placed thereon by, or for, the United States, subject, however, to existing easements for public roads and highways, for public utilities, for railroads and for pipe lines; and that any and all interests adverse to petitioner in said lands and any part thereof be condemned and taken for the use of petitioner for said term of years. That just compensation, to be paid into the Registry of this Court for the taking of the

said term of years in said lands, and for any and all valid and legal outstanding interest in and to said lands or any part thereof, for and during said term of years, be ascertained and awarded in these proceedings and established by judgment herein. That the title to the said public lands hereinabove described be quieted in petitioner, and all persons whomsoever claiming or to claim any interest therein in these proceedings be forever enjoined from asserting or claiming any interest in said public lands adverse to the petitioner herein, and for any and all other orders, judgments, and decrees as may be legal and appropriate.

DATED at Phoenix, Arizona, this 12th day of August, 1943.

UNITED STATES OF AMERICA
By F.E. Flynn
United States Attorney

By CHAS. A. CARSON
Chas. A. Carson
Special Attorney
Lands Division
Department of Justice

UNITED STATES OF AMERICA)
) SS
DISTRICT OF ARIZONA)

CHAS. A. CARSON, being first duly sworn, on his oath, deposes and says that he is Special Attorney, Lands Division, Department of Justice, and that he is one of the attorneys for the petitioner in the above entitled cause, and that he makes this verification for and on behalf of the petitioner, being duly authorized thereunto; that he has read the foregoing petition in condemnation and knows the contents thereof, and that the matters and things therein stated are true, of his own knowledge, except as to the matters and things therein stated upon information and belief, and as to such matters and things, he verily believes the same to be true.

CHAS. A. CARSON

Subscribed and sworn to before me this 12th day of August, 1943.

GWEN ROBY
Deputy Clerk
United States District Court
for the District of Arizona

(SEAL)

IN THE DISTRICT COURT OF THE UNITED STATES

FOR THE DISTRICT OF ARIZONA

UNITED STATES OF AMERICA, Petitioner, -vs- C.M. KIMMEL, IVAN KUYKENDALL, E.E. RODGERS, HAROLD D. SHONTZ, WENCESLADA OLEA, S.G. MADRIL, ESTATE AND UNINOWN HEIRS OF JESUS MADRIL, Deceased, ANGEL MADRIL, R.H. THOMPSON, JOHN R. HARGUS, GEORGE CLINE, KENNETH HODGMAN, CARL MILLER, F.C. TATUM, TOM MILLER, HENRY STIEG, R.E. MILLER, THOMAS KELLY, J.E. MATTESON, PETER MASSE, JESSE B. WILBANKS, ILA MAY GRAY, ELIAS L. OROSCO, PEDRO AGUALLO, WILLIAM H. GEDDES, ERNEST R. HALL, EMERY POOR, MANGANESE ORE COMPANY, a corporation, EMERY L. WILKINS, FLORENCE BRUMLEY, JAMES D. TIPTON, WILLIAM G. KNEELAND, WALTER E. KEHOE, JESUS MADRIL, MRS. JOE NOLACHEK, ANNA C. MOLLOY, S.J. SNAPP, JOSEPH WHITEHOUSE, BLACK GIANT MINES COMPANY, a corporation, VINDICATOR MINING COMPANY, a corporation; HARCUVAR COPPER COMPANY, a corporation, F.L. GARLINGHOUSE, ESTATE AND UNKNOWN HEIRS OF RICHARD W. BULLARD, Deceased, ESTATE AND UNKNOWN HEIRS OF JOHN C. BULLARD, Deceased, W.R. BUNKER, R.E. BUNKER, R.E. LUCAS, ESTATE AND UNKNOWN HEIRS OF ROY R. MacDONALD, Deceased, G.D. TRANZETTEL, EDMUND D. TRANZETTEL, LAURA R. MacDONALD, ELAINE MacDONALD, LOUISE MacDONALD, GEORGE A. MAUK, CHARLES G. FLEMING, GEORGE H. ANDREWS, CENTROID CONSOLIDATED MINES, a corporation, W.B. HARRIS, RHODA HATCH NOHLECHEK, TOM SAUNDERS, NED BUCHANAN, WILLIAM WILKINSON, DAN E. CLINTON, WINSTON R. RICE, CARRELL EVANS, CARL BRALEY, MARTIN SMITH, VIRGINIA J. HARRIS, ROBERT W. HARRIS, R.S. RODGERS, MRS. DEBE W. HUBBARD, ANNA C. MOLLOY, ARIZONA MINING COMPANY, a corporation, FREDERICK L. GARLINGHOUSE, R.W. BULLARD, J.C. BULLARD, CLARA-SWANSEA MINING COMPANY, a corporation, CLARA CONSOLIDATED GOLD & COPPER MINING COMPANY, a corporation, FRANK W. SHEDD, Jr., STATE OF ARIZONA, COUNTY OF YUMA, COUNTY OF YAVAPAI, and the UNKNOWN OWNERS AND CLAIMANTS of certain lands in the Counties of Yuma and Yavapai, State of Arizona, Respondents.	No. Civ. 422 Phx. ORDER FOR IMMEDIATE POSSESSION

The foregoing entitled cause coming on for hearing upon the motion of Chas. A. Carson, Special Attorney, Lands Division, Department of Justice, for an order granting to the petitioner immediate possession of the lands hereinafter described, and upon consideration thereof and of the petition herein and the statutes in such case made and provided, and it appearing that there is need for the petitioner to have immediate possession of all of the lands described in said petition, and it appearing that petitioner is entitled to acquire said lands, by condemnation under judicial process, for the purposes as set forth and demanded in said petition, and that the United States is entitled to take immediate possession of all of said lands to the extent of the interest to be acquired, and that funds have been appropriated and are available and unexpended for payment of just compensation in these proceedings;

NOW, THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that petitioner is hereby authorized to take immediate possession, to the extent of the interest to be acquired, of the following described lands situate in Yuma County and Yavapai County, State of Arizona:

> Beginning at the Northeast Section Corner of Section One (1), Township Nine (9) North, Range Ten (10) West, of the Gila and Salt River Base and Meridian, Yavapai County, Arizona; thence South one mile to the Northwest corner of Section 7, Township 9 North, Range 9 West, Gila and Salt River Base and Meridian; thence East one mile to the Northeast corner said section; thence South two miles to the Northwest corner of Section 20; thence East one mile to the Northeast corner of said section; thence South one mile to the Northwest corner of Section 28; thence East one mile to the Northeast corner said section; thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner Section 31; thence South one mile to the Southeast corner said section; thence West two miles to the Northeast corner Section 2, Township 8 North, Range 10 West; thence South one mile to the Southeast corner of said section; thence West three miles to the Northeast corner of Section 8; thence South one mile to the Southeast corner said section; thence West two miles to the Northeast corner of Section 13, Township 8 North, Range 11 West (unsurveyed), Gila and Salt River Base and Meridian, in Yuma County, Arizona; thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 22; thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 29; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 31; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section One (1), Township Seven (7) North, Range Twelve (12) West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner said section; thence West one mile to the Northeast corner of Section 11; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 15; thence South one mile to the Southeast corner of said section; thence West five miles to the Northeast corner of Section 23,

Township 7 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner of said section; thence West two miles to the Northeast corner of Section 28; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 32; thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 6, Township 6 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 12, Township 6 North, Range 14 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence South one mile to the Southeast corner of said section; thence West one mile to the Northeast corner of Section 14; thence South two miles to the Southeast corner of Section 23; thence West one mile to the Northeast corner of Section 27; thence South one mile to the Southeast corner of said section; thence West two miles to the Southwest corner of Section 28; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 20; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 18; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 12, Township 6 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 2; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 34, Township 7 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 28; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 20; thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 18; thence North two miles to the Northwest corner of Section 7; thence West one mile to the Southwest corner of Section 1, Township 7 North, Range 16 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence West one mile to the Southwest corner of Section 35, Township 8 North, Range 16 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North two miles to the Northwest corner of Section 26; thence East one mile to the Southwest corner of Section 24; thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 18, Township 8 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 8; thence North two miles to the Northwest corner of Section 5; thence East one mile to the Southwest corner of Section 33, Township 9 North, Range 15 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 26; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 19, Township 9 North, Range 14 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner said section; thence East two miles to the Southwest corner Section 16; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 11; thence North one mile to the Northwest corner of said section;

thence East two miles to the Southwest corner of Section 6, Township 9 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (unsurveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 32, Township 10 North, Range 13 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence East three miles to the Southwest corner of Section 26; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 19, Township 10 North, Range 12 West, Gila and Salt River Base and Meridian, Yuma County, Arizona (surveyed); thence North one mile to the Northwest corner of said section; thence East one mile to the Southwest corner of Section 17; thence North one mile to the Northwest corner of said section; thence East two miles to the Southwest corner of Section 10; thence North one mile to the Northwest corner of said section; thence East four miles to the Northeast corner of Section 7, Township 10 North, Range 11 West, Gila and Salt River Base and Meridian (surveyed); thence South one mile to the Southeast corner of said section; thence East one mile to the Northeast corner of Section 17; thence South one mile to the Southeast corner of said section; thence East two miles to the Northeast corner of Section 22; thence South one mile to the Southeast corner of said section; thence East two miles to the Northeast corner of Section 25; thence South one mile to the Southeast corner of said section; thence East five miles to the Northeast corner of Section 35; Township 10 North, Range 10 West, Gila and Salt River Base and Meridian, in Yavapai County, Arizona, thence South one mile to the Southeast corner said Section; thence East one mile to the point of beginning, containing 351,360 acres, more or less.

IT IS FURTHER ORDERED that a copy of this order be forthwith served by the United States Marshal for the District of Arizona on each of the persons in possession of said lands, and that return of said service be forthwith made by said United States Marshal to the Clerk of this Court.

ENTERED this 12th day of August, 1943.

ALBERT M. SAMES

Judge
United States District Court
for the District of Arizona

Summary of Supplies as of Nov. Ist. 44

	On Hand IO/I	Received	On Hand II/I	Used	
Powder	2I½ Boxes	-----	2 bxs	I9½.	144.30
Fuse	4800 ft.	------	600	4200ft.	29.40
Caps	900	------	270	630.	12.60
Bits	I070	------	I070		
	982 resharpened.	------	(I50 out)		52.50
Steel	74--308ft.	----	69--283ft.	25ft.	25.00

98.20

Reconditioned 20 pieces (I2 not returned) 15.00

Gasoline	225 gals	65I	225	65I gals.	87.89
Engine Oil	30 "	--	IO	20 "	9.40
Comp. Oil	I8 "	--	I3	5 "	2.35
R.D.Oil	25 "	--	I5	IO "	4.75
Carbide	75 lbs	--	IO	65 Lbs.	3.90
Wedges	800	--	650	I50	3.00
Timber	300ft.	--	200	I00ft.	6.00
Grease		35 lbs.	3.50		

Transportation I25 gals of gas-- 9 qts Oil---I service job.

Compresser Repair Two fan Belts-- 6 Spark Plugs, 5.00

Tugger and Scraper-- Oxygen and Acetylene 7.00-- Welding rod 5.I5--Steel Plates 5.05--Cable I2.00 and some ¼ in cable from Pratt-Gilbert. 29.20

IO tanks of Water,. 75.00

4.75
3.90
3.50
5.00
29.20
75.00
121.35

87.89
9.40
2.35
99.64

Summary of Supplies as of Oct. Ist 44.

	On Hand 9/I	Received	On Hand I0/I	Used	
Powder	38 boxes	none	2I½ boxes	I6½ boxes @ 7.40	122.10
Fuse	9000 ft.	"	4800ft	4200ft. .007	29.40
Caps	I500	"	900	600 @ .02	12.00
Bits	9I5	I95	I070	discarded 40 @ .35	14.00
	resharpened	I300 @ .10 13.00	(240 out)		
Steel	280ft.	New I2 pieces ~~300ft~~ 53ft	308ft.	" 25ft. @ 1.00	25.00
	reconditioned---33 shanks and threads @ .75				24.75
Gasoline	400 gals	65I	225	826 gals @ .13½	111.51
Eng Oil	53 "	none	30	23 " @ .47	10.81
Comp. Oil	23	"	I8	5 " @ .47	2.35
Rock Drill Oil	3I.5	"	25	6.5 " @ .47	3.06
Carbide	200 lbs	"	75	I25 lbs .06	7.50
Wedges	900	"	800	I00 @ .02	2.00
Timber	900ft	"	300	600ft. @ .06	36.00
Stove Oil	25	--	--	--	

Machine Parts used --I chuck -driver-- 4 water Needles and rubbers . 4 hose menders with clamps, 4 arm bolts. 8.00

Compressor Engine---I0 Spark Plugs, Set Magneto Points, $27;44. Service charges by Western Machinery Co. 27.44

Transportation ; Pick-Up Repair I9.75. New Canvas 6.98, 2 tires. I35 gals gas. 5 qts oil. 2 service Jobs. 56.00

280.00
3.75
24.75
308.50

108.40
102.20
210.60

Summary of supplies as of Sept. Ist 44.

	On Hand 8/I/44	Rec. August	On Hand 9/I/44	Used
Powder	24 boxes	40	38	26 @ 7.40 192.40
Fuse	8300ft	6000	9000	5300ft.@ 007 37.10
Caps	9I7	I500	I500	9I7 @ 02 18.34
Bits	I307	I00	9I5	discarded 292 @ .35 102.20
	Reconditioned I084 @ .10 108.40		(200 Out)	
Steel	56 pieces 250Ft	6--35ft	62 pieces-280ft	Lost by repair@ 60 280.00
	Reconditioned 33 pieces.@.75 = 24.75			5ft.@ .75 3.75
Gasoline	300 gals.	I302	400	I202 gals. @ 13½ 162.27
Engine Oil	48 gals	53	53 gals	48 gals @.47 22.56
Comp Oil	32 gals	-----	23	9 gals @ 47 4.23
R.Drill Oil	43.5	------	3I.5	I2 gals @.47 5.64
Carbide	I00lds	300 lbs	200	200 lbs @.06 12.00
Wedges	----	I000	900	I00 @ 02 2.00
Timber	800ft	I000ft	900ft	900ft.@.06 54.00
Stove Oil	25 gals	----	25	---

Comp. Engine parts --I6 Spark Plugs- 6.40 2 sets radiator and intercooler gaskets. 4# Waste. 2.00

Rock Drill Parts Loading sticks and arm and clamp bolts to amount of $8.50. 8.50 4 water-needles and gubbers for same. 4.64

One small can aceytelene . 4.20 Repairs to Scrapers $50.20 50.20

Transportation 266 gals gas-- I2 quarts oil -- 2 service jobs. Cushion $2.00 Repairs to Engine $63.I0. Rental for Pick-Up $47.90.

I5 tanks ~~66~~ Water., @ 7.50

2660.64
7.61
286.00

15
750
75
105
112.5

Summary of Supplies as of August Ist 44.

	On Hand 8/I/44	Received [redacted]	On Hand Aug 8/I/44	Used	Chg. N.S.
Powder	9.5 Boxes	40bxs.	24bxs	188.70 25.5	6. 44.40
Fuse	2300ft	I2000ft.	8300ft	6000ft 42.00	2400ft 16.80
Caps	277	I500	9I7	860 17.20	387 7.74
Bits	I200	350	I307	Discarded 243 85.05	I00 35.00
	Resharpened 838 $83.80				
Steel	58--250ft	none	56--250ft,	" I0ft 10.00	none. —
Gasoline	450 gals	I042 gals	300 gals	II92 160.92	250. 33.75
Eng Oil	35 gals	53 "	48	40 18.80	5 2.35
Comp. Oil	40	--	32	8 3.76	2 0.94
R.Drill Oil	4	53	43.5	I3.5 6.35	2.5 1.18
Carbide	50 lbs	200lbs	I00lbs	I50 9.00	50. 3.00
Wedges	50	80	---	I30 2.60	20 0.40
Timber	I600 ft	---	800	800 48.00	-- —
Stove Oil	25	-- 2.32	25 2.00	-- 2.00	

Machine Parts 2 Water Needles, 2 Arm Bolts, 2 Oil Plugs, 2 Spark Plugs for Comp Engine, 8 Pick Handles. 4.80 1.20

Transportation. 242 gals of gas , 9 Qts Oil , I service Job. Tire repair $5. Speedometer $3.00 3.00 " oversize Tires $94.I6. 94.16

I4 tanks of water . Ab out I tank to N.S.

$105.00 $7.50

Supervision 450.00

Mine Surface

Mine Div

Construction Surface 0

Road 0

Office 0

Direct mining

7.000

SUMMARY OF SUPPLIES AS OF JULY Ist., 44

	On Hand 6/I/44	June Received	On Hand 7/I/44	Used	Charge to North S.
Powder	39bxs	0	9.5 bxs	29.5 - 218.30 ✓	3.5 - 25.90
Fuse	3200ft.	6000ft.	2300ft	6900ft. - 48.30 ✓	2000ft. - 14.00
Caps	800	500	277	I023 - 20.46 ✓	200 - 4.00
Bits	I283	0	I200	dis. 83 - $29.05 ✓	Charge none
		Resharpened	577 — $57.70 ✓		
Steel	63--275ft	0	58--260ft.	dis 5--I5ft. - 15.00 ✓	Charge none.
		Reconditioned	I8 Pieces - 13.50 ✓		
Gasoline	629gals	928	450	II07 - $149.45 ✓	I25 - 16.88
Eng Oil	I7 gals	53 gals	35 gals	35 gals - 16.45 ✓	I0 - 4.70
Comp. Oil	52 gals	0	40 gals	I2 - 5.69 ✓	3 - 1.41
Rock-D Oil	I5	0	4	II - 5.17 ✓	3 - 1.41
Carbide	80 lbs	I00	50 lbs	I30 lbs. - 7.80 ✓	30 lbs - 1.80
Wedges	I50	--	50	I00 - 2.00 ✓	50 - 1.00
Timber	2200ft	3848	I600ft	4448 - 266.88	4000ft. - 240.00
Stove Oil	5gals	25 gals	25 gals	5 - 0.50 ✓	none

Machine Parts used One Hammer or Piston for N.S.--2 Water Needles. $14.50 ✓
2 Water needle rubbers. And the Repair of Tugger and Scrapers.

Transportation. From 20627 miles to 2528I (this last figure is estimated--the Speedometor stopped registering just after the 24th.) 4650 miles-- 275 gals of gas; I0 qts of oil; 3 service jobs; 2 tires; and the Universal joints were replaced- No Charge.

I7 Trucks of Water.

Wickenburg, Arizona,
June IOty, ~~44~~

Summary of Supplies as of June Ist. 44

	On Hand May Ist	Received	On Hand June Ist.	Used
Powder	39 I/6	40	39	40 I/6 $297.18
Fuse	6200 ft.	6000 ft.	3200 ft.	9000 ft. $63.00
Caps	II00	I000	800	I300 $26.00
Bits	II0I	325 (Sharpened I879)	I283	Discarded I43 $237.85
Steel	67-290ft	6-24ft (Reconditioned I8 pieces)	63-275ft	Discarded I0-39ft. $52.50
Gasoline	I50 gals.	I648 Gals	629 gals	II69 Gals. $157.82
Engine Oil	45 gals	----	I7 gals	28 gals. 13.16
Rock Drill Oil	30 gals	----	I5 gals	I5 gals. 7.05
Comp. Oil	7 gals	52½ gals	52	7½ gals 3.53
Carbide	I30 Lbs	I00 lbs	80 lbs	I50 lbs. 9.00
Timber South Side	3446 ft.	-----	2200ft	I246ft. 74.76
Stove Oil	25 gals	------	5gals	20 gals 2.00
Wedges	500#	~~##0#~~	I50	350 7.00

Machine Parts used---One Piston---2 Chucks--- 2 water Needles--- 2Water valve seats 45.32

Transportation 5244 miles--from 20627 to I5383.) 302 gals gas --I6 qts oil. 3 Tires 2 Tubes-- 2 Service Jobs. Repair of Spring Schackle and Universal Joints.

I9 Trucks of water-- 250 ft of 3/8 Cable --2 gals of Casite.

Produced I490 mine cars of ore---I4 R.R. Cars--About I0 cars out of each I06 sorted out.

3.53
13.16
157.82
174.51

7.05
2.00
7.00
45.32
61.37

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

WESTERN REGION

OFFICE OF
THE DISTRICT ENGINEER

Dec. 12, 1944

Mr. Wm. B. Maitland,
Reconstruction Finance Corp.,
325 Heard Bldg.,
Phoenix, Arizona.

Dear Mr. Maitland:

I am returning herewith the data sheet and A.S.& R. map of the Bullard mine which you loaned me.

Thanks very much.

Yours very truly,

Harlow D. Phelps

Harlow D. Phelps,
Mining Engineer.

Enclosure 2826477

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

SOUTHWEST EXPERIMENT STATION
Box 4097
UNIVERSITY STATION

Oct. 28, 1944

Box 382
~~Tucson~~, ARIZONA
Ray,

Mr. Wm B. Maitland
Reconstruction Finance Corp.
Phoenix, Arizona

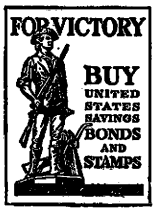
Dear Mr. Maitland:

Mr. Phelps reminded me that I had some of your Bullard maps and sections, and I am certainly sorry for the delay in returning them. I wanted to put the drill hole locations and critical stope faces on before I sent them to you, but never seemed to get the chance. I have at last put them on and hope they will be of some help to you.

Some of the assays from our drill hole samples have come in, so suggest you write to Tucson to see if you or the owners can't get a copy of them.

If your travels ever bring you to Ray, be sure to look us up.

Best Regards,
R. M. Grantham



Maps Enclosed

H. L. PRATT, JR.
PRESIDENT

J. P. SMITH
VICE PRES. AND GEN. MANAGER

A. W. CRANE
SECRETARY & TREAS.

Bullard Gold Mines, Inc.

Heard Building
Phoenix, Arizona

JA-45	75 cfm.		$205.00
JB-4 (improved)	"	"	205.00
R-48 Stoper	140 cfm	(96#)	365.00
R-58 "	170 "	(116#)	400.00

GK-210 Portable (Gasoline Engine Driven)

less running gear	$3430.00
Approx freight	200.00
	$3630.00

HK-210 (Oil Engine Driven)

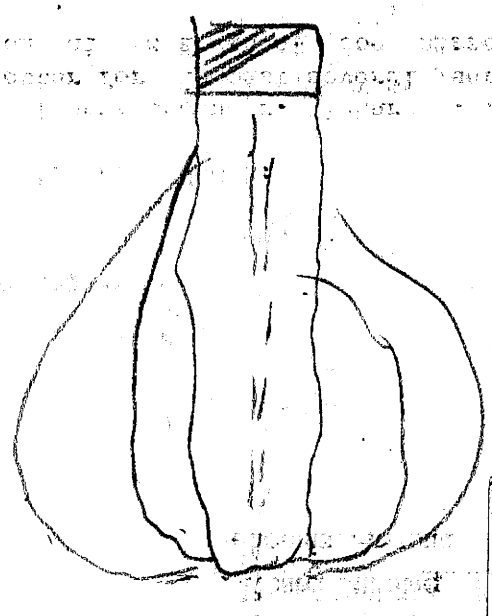
	4030.00
Approx fwt.	200.00
	4230.00

Model 50 B with base, & V-belt Drive, less Engine. (230 cfm) f.o.b. factory $1303.00

A4NN0J Double-drum Hoist (850# Estimated rope pull) (24" scraper) $603.00

HNN-1J Double-drum (2000#) (30" scraper) 883.00

24" or 30" Scraper (including cable)
Approx. $150.00



WM. C. McLAUGHLIN

SERVICE ENGINEER
Ingersoll-Rand Company
1015 TEXAS STREET
EL PASO, TEXAS

PRESCOTT, ARIZONA
PHONE 542-W

September 8, 1943.

Mr. Frank W. Kuehl, Counsel,
Re-Construction Finance Corporation,
Washington, D. C.

Re: Bullard Gold Mines, Inc.
Docket No. MD-5391.

Dear Mr. Kuehl:

We are enclosing you herewith:

1. Opinion on title by our attorney.
2. Waiver of payments of minimum cash royalties so long as borrower is indebted to the R. F. C.

A detailed list of creditors will be forthcoming.

Yours very truly,

BULLARD GOLD MINES, INC.,

By
J. P. Smith, Vice President

JPS:M

2 Encs.

V. A. HALE, PRESIDENT
E. R. JACKSON, VICE-PRES.-TREAS.
W. E. SCOTT, SHOP MGR.

PHONE 310
P. O. BOX 110

ARIZONA MINING SUPPLY CORPORATION

JOBBERS, DISTRIBUTORS, MACHINE SHOP
MACHINERY - MINING SUPPLIES - HARDWARE

PRESCOTT, ARIZONA

September 3, 1943

Mr. William Maitland
R. F. C. Mining Division
325 Heard Building
Phoenix, Arizona

Dear Mr. Maitland:

In accordance with our conversation, I yesterday, looked over the compressor and engine near Mayer, but find that both the compressor and engine are entirely too small for the requirements at the Bullard Mine.

I will be in Phoenix on Tuesday, the 7th, at which time I hope to see you, and if possible, would like to arrange to see Mr. French and whoever else should be seen relative to equipment we spoke of. I will greatly appreciate it if you can arrange for a meeting at 2 P.M. Tuesday.

With regards and best wishes.

Very truly yours,

ARIZONA MINING SUPPLY CORP.

R. R. Liggett

R. R. Liggett

RRL:d

Phone 63-F-3

Burton Bros.

TROPICO MINE

Rosamond (Kern County) California

Operating
Tropico Mine at Rosamond
Ruth Mine at Trona

Dealers in
Mining Machinery
and Supplies

August 21, 1943.

Mr. Wm. B. Maitland,
325 Heard Building
Phoenix, Arizona.

Dear Mr. Maitland:

Clifford asked me to write you as he has gone to the Ruth Mine and did not have time to answer it. He was very glad to hear from you and he gave me your letter to give to George who will send you a list of equipment we have available at this time.

With kindest regards to Katherine and yourself, I am

Yours very truly,

Doris B. Shumake

17
1

F-18 2M 4-43

WESTERN MACHINERY COMPANY

OFFICES AND WAREHOUSES
SAN FRANCISCO, CALIFORNIA
LOS ANGELES, CALIFORNIA
SACRAMENTO, CALIFORNIA
SALT LAKE CITY, UTAH
SPOKANE, WASHINGTON
DENVER, COLORADO
PHOENIX, ARIZONA

"Wemco Products"

TELEPHONE 3-4101
1025 SOUTH CENTRAL AVENUE
P. O. BOX 1652
PHOENIX, ARIZONA

CABLE ADDRESS
"WEMACHY"

Aug 17th-43

Bullard Gold Mines Co
Heard Bldg.
Phoenix, A riz. Attn Mr. Smith.

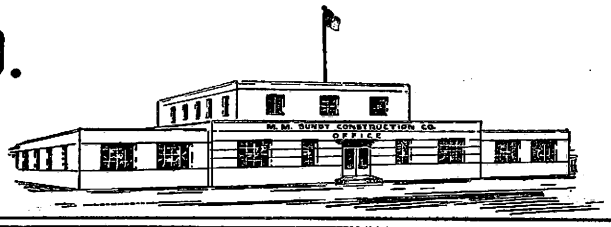
Dear Mr. Smith:-

Referring to your request for prices on Mining equipment we are pleased to quote you as follows:-

1 - New 315 ft. Ingersoll Rand Model GK two stage portable Compressor on skids, less wheels and axles. FOB Factory,	$4300.00
Approximate freight to Phoenix	250.00
1 - New Ingersoll Rand size HNN-1J Double drum Slusher hoist, equipped with four Horizntal Rollers, and Vertical Rollers. Price FOB ~~Factory~~ Phoenix, Arizona.	883.00
2 - New I.R. Stopers, Model R-48 self Rotating with chucks for 1" Hex Steel. Price each FOB El Paso, Texas $365.00	730.00
2 - New I.R. ~~Ik-~~ JB-5 Jackhamers, wet for 1" Hex Steel, complete with short water hose connection. Price FOB El Paso,	215.00
1 - New I.R. Carriage or Mounting to mount above Jackhamer. Price FOB El Paso, Texas.	100.00
1 - Used 3" X 6 ft Column, Arm and Saddle for mounting one above Jackhamers on above Carriage, good condition. Unit	55.00
2 - 50 - ft. Pcs 3/4" Air Hose with new Couplings, New Quaker Rubber Co hose. For above Stopers. $20.50 each 50 ft piece	41.00
2 - 50 ft Pcs 1/4" New Air hose same as above for Jackhamers $20.50	41.00
4 - Sets of 1" Hex Jackhamer Steel, 3 pieces to each set, in 2 ft, 4 ft and 6 ft Pieces. 12 Pieces total price FOB Phoenix	47.40
4 - Sets of 1 " Hex Stoper Steel, 3 Pcs to each set, in 2, 4 & 6 ft. lengths. Price for lot 12 pcs FOB Phoenix.	44.60
1 - Gross 144 I.R. Jackbits, in guages 2-1/8", 2" and 1-7/8", Ea 32¢	46.08 6095.68

It would be necessary for you to make application to Washington for permission to purchase the major items above such as Hoist, Compressor and Jackhamers and Stopers.

M. M. SUNDT CONSTRUCTION CO.



J. S. SUNDT, MANAGER

440 SOUTH PARK AVENUE -- TUCSON, ARIZONA

Dear Mr Maitland

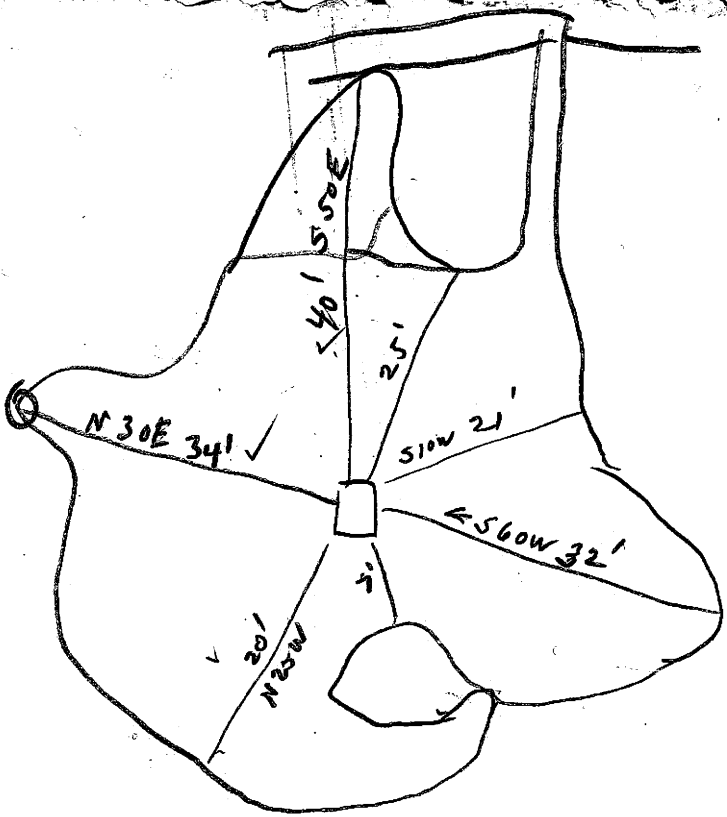
I have just written Mr Smith of the Bullard mine that if we can arrive at a satisfactory deal for all parties concerned that we will take & operate the Bullard mine.

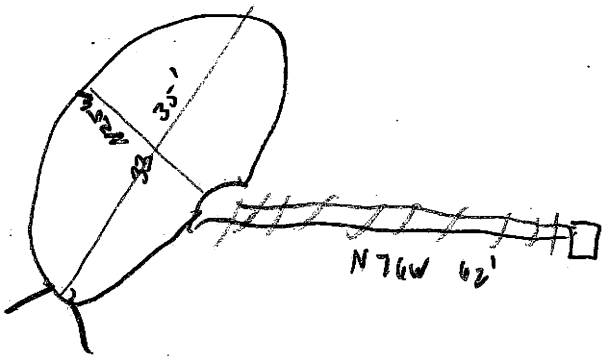
As you stated, I believe that in addition to our own operation we can lease out some of the other shovings other than the home group & in that way mine additional tonnage.

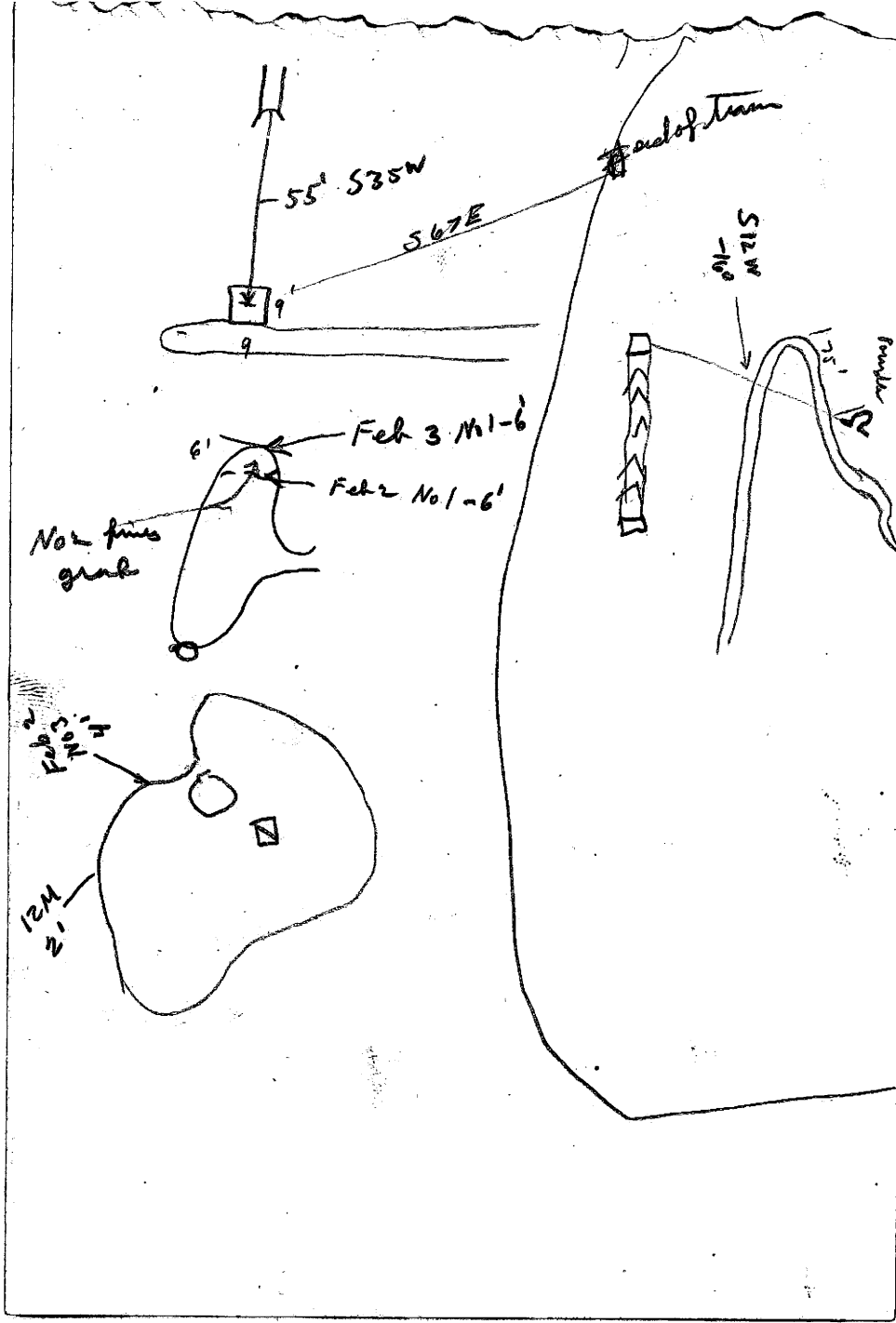
Believe me I appreciate your friendly cooperation and assistance it is a big help indeed & I hope to repay in an orthodox & ethical manner.

Yours Sincerely

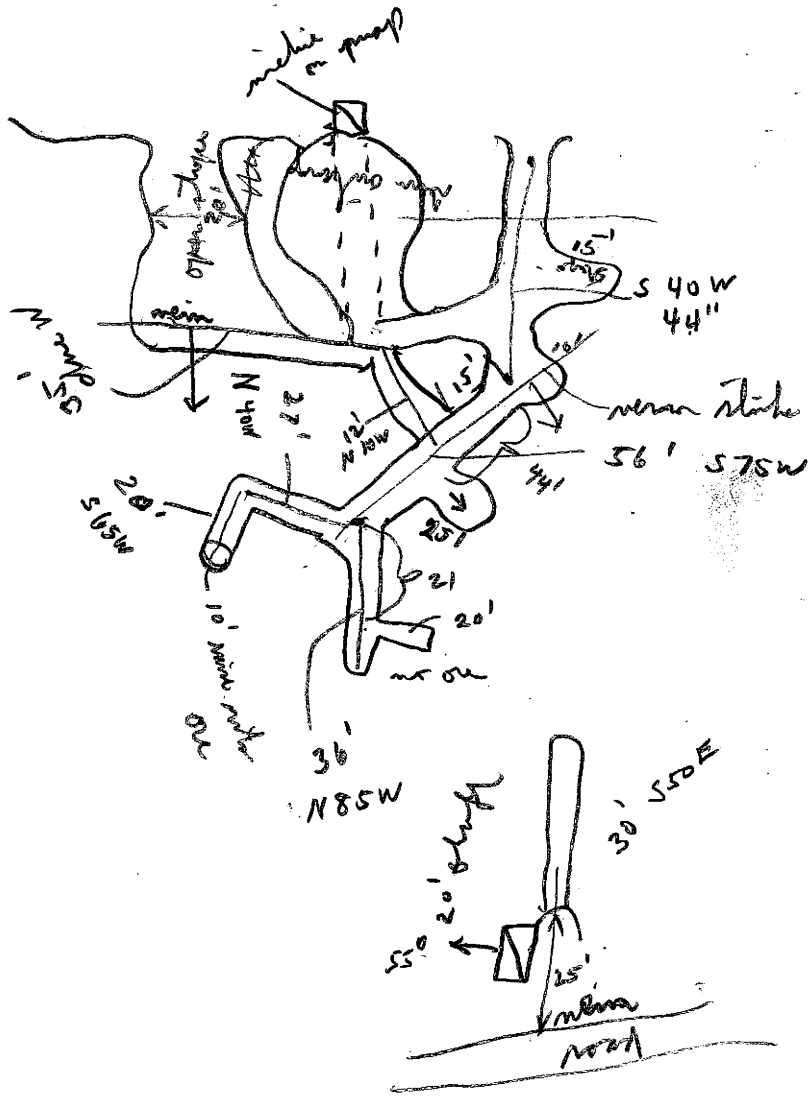
J. E. Dietrich.


S 50E
40'
25'
N 30E 34'
S10W 21'
S60W 32'
3'
20'
N25W

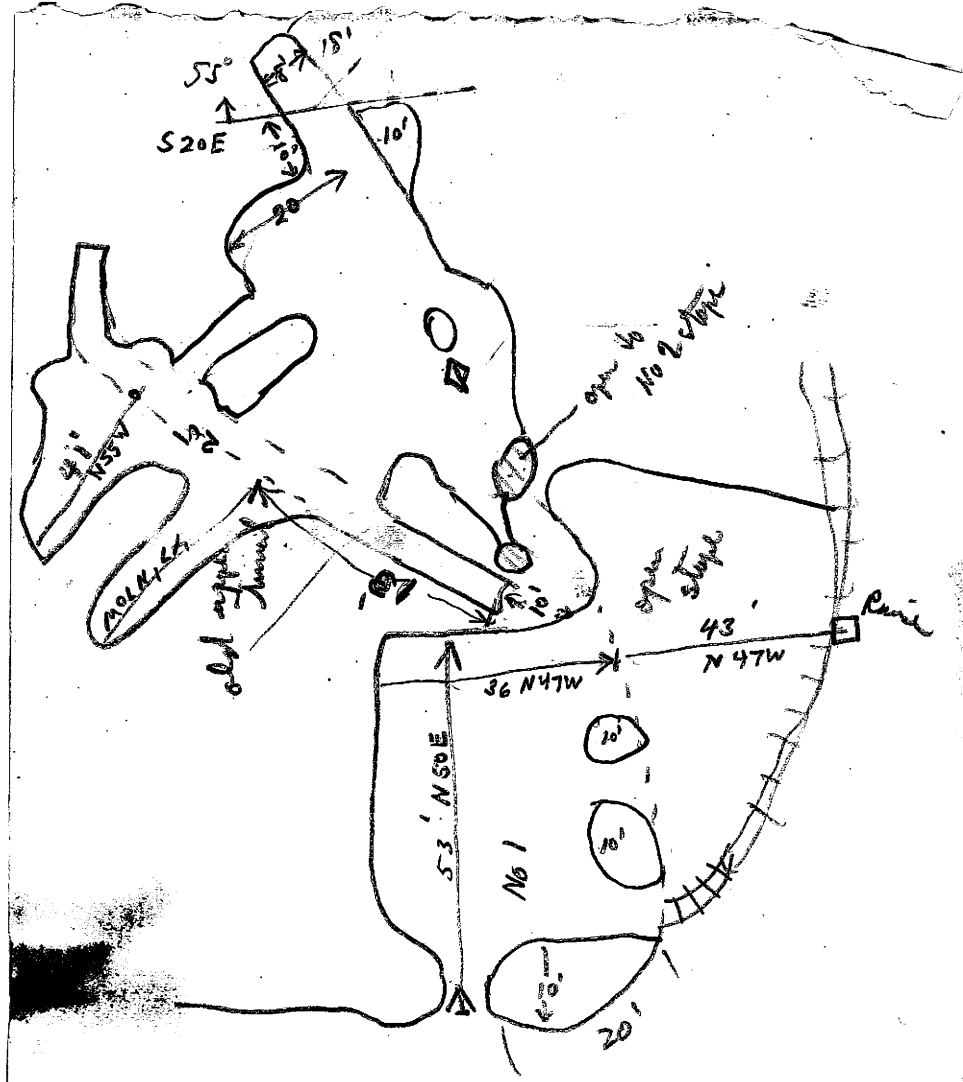

35'
N 76W 62'



55' S35W
S67E
end of tram
9'
9
S12W
-16°
75'
6'
Feb 3 No1-6'
Feb 2 No1-6'
No2 fines grab
Feb 2 No3 4'
12M 2'



vein
N 40W
15'
S 40W
44"
10'
vein strike
56' S75W
44'
25'
21
20'
20'
S65W
10' vein rock
36'
N85W
30' S50E
20' slough
55°
25'
vein
road


55°
S20E
18'
10'
20
41'
N55W
MOLN, LA
old upper tunnel
open to No 2 stope
open stope
43'
N 47W
36 N47W
53' N50E
No 1
10'
20'
Raise

193
98

193
34
9
4
36
37
98
98
62
45
125

741

Station	Stadia	Slope Dist	Vert L	Deft L	Bearing	
2-1 Bore Knight 1- Face drift 2- Nor stope	—	52.1 52.0	+1°10' +1.10	0	N44W	
2-3 Point 24" high	—	43.65 42.9	-10°25' -7.9	+18°17'	S21W	
3-3A face of E drift	—	122' 121.8	-3°40' -7.8	-94°35'	N63E	
3-4 W edge of open cut	—	54.0' 52.0	-15°47' -14.7	+47° 15'	S25W	
4-5 on cliff	—	125.1' 93.0	+42°0' +83.7	+ +130°34'	S28E	
5-6 near Hill Top	142'	128.7' 115.2	+26°28' +57.4	+1°18'	N25W	
6-7 Hill Top	47'	46.7' 44.5	+17°48' +14.3	+ 47°35'	N22E	
7-8 HI = 4.2 outcrop F.W. North side	73'	67.8' 61.0	-25°55' -29.6	-58°43'	N38W	361
8-9 floor of drift in slope	—	38.75' 37.1	-17° -11.3	-150°15'	S7½E	
7-10 Nail FW W edge stope 3' from Bo Horn stope 11' wide	HI 3.6'	93.6' 90.3	-22°15' -24.8	+15°20'	S8E	

66.40

June Bills

Misc Hauling Spear	178.70 ✓
Mining Supplies Pratt Bed	37.61 ✓
Office supplies	3.10 ✓
Credit Card	150.12 ✓
34.89 ✓ taxes [illegible] supplies	
Office supplies	4.08 ✓
Assayer	25.50 ✓
Mining supplies	9.94 ✓
" "	73.11 ✓
Equipment	46.35 ✓
Misc expense	9.98 ✓
Equip ?	785.00
Supplies	54.54 ✓
Car ore hauling	53.47 ✓

Bullard Mine —

Frt rates to Clarkdale

$10 ore $1.40 / ton $35

$10-15 $1.90

$15-25 2.00

23,000
10,000
12 12,000

2.93
10.00
12.93

12,000
50,000

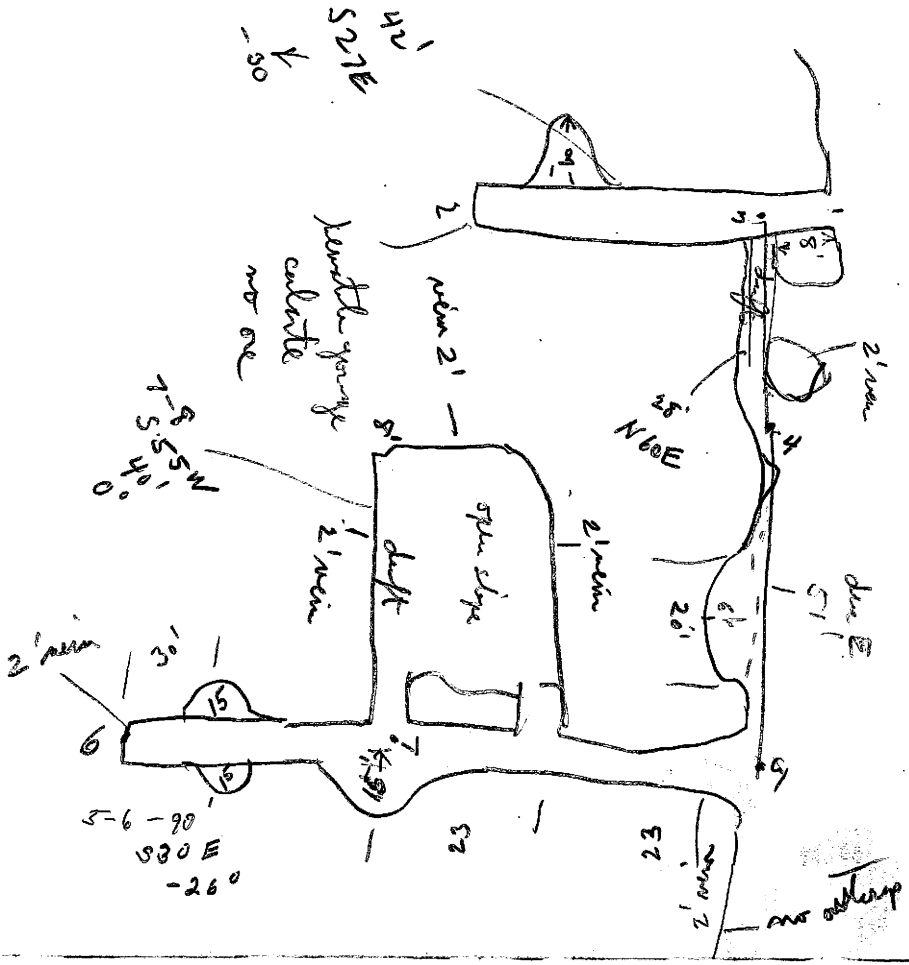
.28
32
56
84
8.96

8.00
2.51
10.51

36
32
72
108
11.52
1.10

11.52
3.61
15.13
4

Apr 21, 1942


42'
S27E
-30
2
3
8'
2' vein
28'
N60E
4
vein 2'
8'
open slope
2' vein
2' vein
drift
7-8
S55W
40'
0°
2' vein
30'
15
6
15
5-6 -90'
S30E
-26°
23
23
2' vein
no outcrop
9

— all detachable bits
— all drill steel
— Complete welding outfit — Pay Davis

Set pipe dies 1/8 - 1/4, 1/2, 3/8, 3/4
2 pipe cutters
— 1 line oiler
— all round point shovels & picks
2 kegs nails
— 1 keg carbide
1 hot water tank
— all misc. pipe fittings including valves
— 1 Jack leg.

Cancell Arrys Mine Supply pipe dies
Set 1 small acetylene
1 large oxygen

	Nov Dec Jan		
No 1 Stope	952 cars	36.7 %	317.21 tons
No 2 Stope	1645 "	63.3 %	547.11
Total	2597	100 %	864.32

Road

Powder $0.06/stick

Oct 9+11 2 days @ $51.045/day = $102.09 labor

78 sticks $4.68 Fuse $0.007/ft

42 caps $0.84 caps $0.02/cap

200' fuse $1.40

Compressor installation

Nov 2,3,6 – 3 days @ $64.645/day = $193.94

Connection of Raise

= 3 days @ $51.045 = $153.14

Oct 23, 25, 27

Nov 1, 4, 5, 8, 10, 12, 16, 18, 19 = 9 days @ $64.645 = $581.81

$734.95

1057 sticks = $63.42

219 caps = $4.38

1548 fuse = $10.84

Tons/day

Tons/shift

Tons/man

Stoping Ore

$6.84/ton labor

Dec Jan, part of Oct + Nov ~~days @ $~~ = $5910.75

6.9 sticks/ton 5963 sticks = $357.78 = $0.41/ton

1323 caps $26.00 = $0.03/ton

8511 fuse $59.58 = $0.07/ton

Payroll

October Total = $1020.90 20 days
$51.045/day.

Nov total = $1680.78 26 days.
$64.645/day.

Dec total = 2369.58

Jan total = 1870.46

14

765.68
905.03

1300
02
2646 2600

285.80
295.80
581.60

80
50)4000 # = $7.27/foot

0069

.06
120)7.27 $ .061

.6
)727

42
02
.84

064
6000)24.000

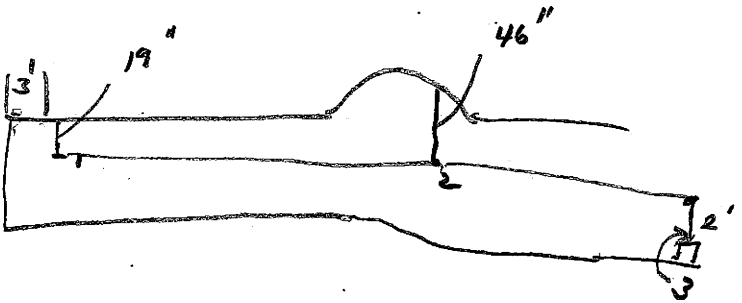
4

1500
.007
10500

00

10836

4.38



45

-13.3	83.7
-14.7	57.4
-29.6	14.3
-11.3	155.4
-24.8	93.7
93.70	61.7

Cochise

30

Charge to the account of _____ $ _____

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

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

WESTERN UNION

1217

A. N. WILLIAMS, PRESIDENT — NEWCOMB CARLTON, CHAIRMAN OF THE BOARD — J. C. WILLEVER, FIRST VICE-PRESIDENT

CHECK

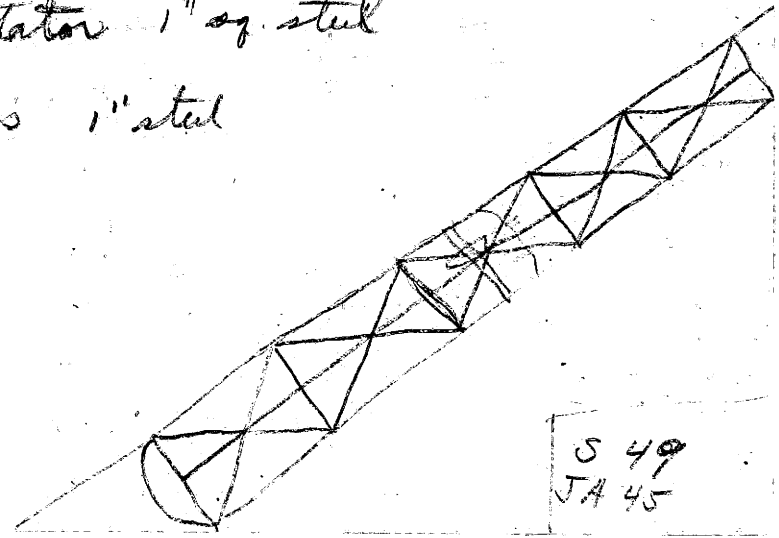
ACCOUNTING INFORMATION

TIME FILED

Send the following telegram, subject to the terms on back hereof, which are hereby agreed to

WANT A REPLY?
"Answer by WESTERN UNION" or similar phrases may be included without charge.

Compressor 315 cu ft
1 double drum slusher + scraper + (250' out of cable) on each drum
1 light stoper self rotator 1" sq. steel
2 mounted jackhammers 1" steel
1 pick up truck
Tunken bits
steel
hose



S 49
JA 45

ALL MESSAGES TAKEN BY THIS COMPANY ARE SUBJECT TO THE FOLLOWING TERMS:

To guard against mistakes or delays, the sender of a message should order it repeated, that is, telegraphed back to the originating office for comparison. For this, one-half the unrepeated message rate is charged in addition. Unless otherwise indicated on its face, this is an unrepeated message and paid for as such, in consideration whereof it is agreed between the sender of the message and this Company as follows:

1. The Company shall not be liable for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the unrepeated-message rate beyond the sum of five hundred dollars; nor for mistakes or delays in the transmission or delivery, or for non-delivery, of any message received for transmission at the repeated-message rate beyond the sum of five thousand dollars, unless specially valued; nor in any case for delays arising from unavoidable interruption in the working of its lines.

2. In any event the Company shall not be liable for damages for mistakes or delays in the transmission or delivery, or for the non-delivery, of any message, whether caused by the negligence of its servants or otherwise, beyond the actual loss, not exceeding in any event the sum of five thousand dollars, at which amount the sender of each message represents that the message is valued, unless a greater value is stated in writing by the sender thereof at the time the message is tendered for transmission, and unless the repeated-message rate is paid or agreed to be paid, and an additional charge equal to one-tenth of one per cent of the amount by which such valuation shall exceed five thousand dollars.

3. The Company is hereby made the agent of the sender, without liability, to forward this message over the lines of any other company when necessary to reach its destination.

4. Except as otherwise indicated in connection with the listing of individual places in the filed tariffs of the Company, the amount paid for the transmission of a domestic telegram or an incoming cable or radio message covers its delivery within the following limits: In cities or towns of 5,000 or more inhabitants where the Company has an office which, as shown by the filed tariffs of the Company, is not operated through the agency of a railroad company, within two miles of any open main or branch office of the Company; in cities or towns of 5,000 or more inhabitants where, as shown by the filed tariffs of the Company, the telegraph service is performed through the agency of a railroad company, within one mile of the telegraph office; in cities or towns of less than 5,000 inhabitants in which an office of the Company is located, within one-half mile of the telegraph office. Beyond the limits above specified the Company does not undertake to make delivery, but will endeavor to arrange for delivery as the agent of the sender, with the understanding that the sender authorizes the collection of any additional charge from the addressee and agrees to pay such additional charge if it is not collected from the addressee. There will be no additional charge for deliveries made by telephone within the corporate limits of any city or town in which an office of the Company is located.

5. No responsibility attaches to this Company concerning messages until the same are accepted at one of its transmitting offices; and if a message is sent to such office by one of the Company's messengers, he acts for that purpose as the agent of the sender.

6. The Company will not be liable for damages or statutory penalties in the case of any message except an intrastate message in Texas where the claim is not presented in writing to the Company within sixty days after the message is filed with the Company for transmission, and in the case of an intrastate message in Texas the Company will not be liable for damages or statutory penalties where the claim is not presented in writing to the Company within ninety-five days after the cause of action, if any, shall have accrued; provided, however, that neither of these conditions shall apply to claims for damages or overcharges within the purview of Section 415 of the Communications Act of 1934.

7. It is agreed that in any action by the Company to recover the tolls for any message or messages the prompt and correct transmission and delivery thereof shall be presumed, subject to rebuttal by competent evidence.

8. Special terms governing the transmission of messages according to their classes, as enumerated below, shall apply to messages in each of such respective classes in addition to all the foregoing terms.

9. No employee of the Company is authorized to vary the foregoing.

12-40

CLASSES OF SERVICE

DOMESTIC SERVICES

TELEGRAMS
A full-rate expedited service.

DAY LETTERS
A deferred service at lower than the standard telegram rates.

SERIALS
Messages sent in sections during the same day.

OVERNIGHT TELEGRAMS
Accepted up to 2 A.M. for delivery not earlier than the following morning at rates substantially lower than the standard telegram or day letter rates.

SHIP RADIOGRAMS
A service to ships at sea, in all parts of the world. Plain language or code language may be used.

CABLE SERVICES

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

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

NIGHT LETTERS
Overnight plain-language messages.

URGENTS
Messages taking precedence over all other messages except government messages.

THERE IS A SPECIAL LOW-RATE WESTERN UNION SERVICE FOR EVERY SOCIAL NEED

Telegrams of the categories listed at the right, to any Western Union destination in the United States

TELEGRAMS OF PRESCRIBED FIXED TEXT	25¢
TELEGRAMS OF SENDER'S OWN COMPOSITION. First 15 words	35¢
LOCAL CITY TELEGRAMS	20¢
TOURATE TELEGRAMS, for TRAVELERS. First 15 words (Additional Words, 2½¢ each)	35¢

GREETINGS AT
Christmas, New Year, Easter, Valentine's Day, Mother's Day, Father's Day, Jewish New Year, Thanksgiving

CONGRATULATIONS ON
Anniversaries, Weddings, Birthdays, Commencement, Birth of a Child

MISCELLANEOUS
Bon Voyage telegrams, "Pep" telegrams, Kiddiegrams (No 35¢ rate)

ASK AT ANY WESTERN UNION OFFICE OR AGENCY FOR FULL INFORMATION

.06 min

1.86

~~1.80~~

1.57

1.01

~~1.44~~

1.15 max

1.40

1.34

1.07 min

16.77

5.94

10.83 #10.83

4.78 max

.20

2.65

5.30

10.60

6.26

4.00

6.26

16.60

22.86

4.87

18.00

1.20

16.00

CLASS OF SERVICE DESIRED			
DOMESTIC		**CABLE**	
TELEGRAM		ORDINARY	
DAY LETTER		URGENT RATE	
SERIAL		DEFERRED	
OVERNIGHT TELEGRAM		NIGHT LETTER	
SPECIAL SERVICE		SHIP RADIOGRAM	

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

COPY OF WESTERN UNION TELEGRAM

1.25
350
7.13

1.75

212
2
424

10.

1000

up to $10 = $1.75 $2.00
10 - 15 2.40

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

Patrons should check class of service desired; otherwise the message will be transmitted as a telegram or ordinary cablegram.

COPY OF WESTERN UNION TELEGRAM

Bullard Pay roll

June 16-30

North side	518 man shows	504.44
South side	791 " "	767.37
Change room	146 " "	136.34
Superintendent	26	200.00
	1481	1608.15

1269
8) 17506
218.7

400.00
70.00
136.34
100.00
34

1414.49
1599.43
3013.92

3013.92
706.34
2307.58
136.34
2443.92

2.3
219) 5191
438
881

.42
519) 2190
2076
1140

1.75
50) 7.50
50
250

Fixed marketing charge. $/10 ore.

1.	Smelting base	$1.75
	Tax bullion	0.03
2.	Freight	1.85
	Tax 3%	0.06
3	Hauling	1.00
	Tax 3%	0.03
4.	Sampling	0.15
	Total	$4.87

2562.59
1898.83
663.76

12356.83
663.76
11693.07

Borrowed	15,000
Repaid	3,000
Net Loss	1898.83
Capital closed	12,356.83
Cash	1630.88
Acct Pay	3000.00

	Dr	Cr	
Loaned by RFC	15000.00		
Repaid on Loan		3000.00	*
Operating Loss		1898.83	*
A/P		3000.00	
Cash Bal		1630.88	
Investment in property		11693.07	
	15000		

	Income	Expense
Loss in Jan	1898.83	
	*	*

Nov 26 182 shifts

Dec 27 264.8

Jan 27 213.9 23.9

12
8) 96

Feb 25 301.74 3405
5
17025

March 27 355

355 shifts in March

13.2 days worked

4
36) 1460

2
262) 7,20
524
196

255.21

640) 3570

1.4 ton = 1 shift
255 4

31
4
27

506

October 1943

Labor

Supervision	390.00
Construction	468.40
Road repair	89.25
Office	73.25
	$1020.90

Equipment & Capital Invest

Pickup truck	1115.57
Road construction	176.00

6.92

146.30
97.52
48.78

48.76
48.76
146.30

3) 146.30

617.85
1.10
152.59
20.02
791.56

32.76
91.65
12.50
136.91

12.50
2 4.50
9) 112.50

27.50
6.92
34.42

335
40.23
12) 40.23
36
42
36
63
60

George D. French.

District Engineer R.F.C.
Colorado school of mines

Started mining in mexico in 1910
Phelps Dodge - Bisbee 1911-12
Ariz Copper Co 1913-15
P.D. Tyron 1915-22
El Tigre 1922-23

Sheldon Mine 1923-31
Gold Mine Cal 1931-34
Sheldon Mine 1935-36
Cornucopia Mine 1936-37
Sheldon Mine 1938-42
Bite W Brazil 1943

Geo. French,
Phoenix, Arizona

You are familiar with our mining conditions at our property near Aguila, Ariz and are desirous of getting a production of approximately 50 tons per day from the property after some preliminary work that will take about 30 days.

You Will have to operate on a narrow margin and under conditions that will be satisfactory to the Supervising Engineer for the Reconstruction Finance Corporation.

Prior to the regular shipments of ore and in any event not later than the _____ day of _____, you are to receive a salary of $450.00 per month.

Our proposal is as follows: That you undertake ~~expansion~~ extraction of the ore and laying it in the bin at the mine for $3.00 per dry ton for ores ranging between $9.80 and $13.00; 10¢ per ton additional for ores between $13.00 and $14.00; 20¢ per ton additional for ores between $14 and $15; 30¢ for ores between $15 and $16 per ton, said values to be as shown by the Liquidation Sheet of the receiving smelter, all in payable amounts of gold, silver and copper after the following deductions:-

According to our computations, ores running less than $9.80 per ton can only be mined and shipped at a loss and such loss shall be borne out of the $3 per ton of the executed contract. We shall have the right to cancel this contract if your shipments fail to average over ~~$~~ a 30 day period _____ tons per day.

You shall furnish all powder used ~~in~~, caps and fuse ~~blanks~~ for the mining and shipment of ore, together with all labor costs, but we shall advance the cost of supplies & carry your employees on our payroll, making the necessary deductions for social security taxes, both State and Federal, withhold taxes and we shall also advance the premiums necessary to keep the employees insured either under workmen's compensation Law or with Lloyd's of London. All such advances, together with social security taxes payable by the employer shall be deducted from the settlements with you.

If you fail to make a profit of $450 per month, the undersigned will pay the advances between $450 and any profit less than that sum per month, but this contract may be cancelled at any time on one day's notice and by either party, if you fail to make such minimum profit of $450 per month.

It is anticipated that all of the smelter returns will be in our hands by the 15th of the month, following the shipments of the previous month and settlements shall be ~~had~~ made with you in 2 days after the final smelter return for the previous month shall have been received. You will either be furnished a copy of the smelter returns or there will be exhibited to you such copies and the smelter returns shall be accepted as final. (If above values take into consideration premiums to be paid, then you will have to....bzzz bzzz bzzz with Mr. Maitland)

During the life of this agreement you shall have sole operation of the property and the sole right to ~~xxxx~~ hire

3

and discharge all employees. It shall be your duty to obtain social security numbers and addresses from employees and exemption certificates and transmit such data to the undersigned. All work done shall be done in a good and workmanlike manner and any representative of the undersigned or of the R.F.C. shall have the right to go upon said premises at any such time.

_____

ACCEPTED:

2.20 $500 4.3

$9.80

5.80
1.00
3.00
$9.80

15,000

$3.00/ton contract

$13 or less 50 tons/day or less 50-60 10¢ on all tonnage 60-70 - 20¢

13-14 - 10¢

14-15 - 20¢

15-16 - 30¢

$450/mo

1 mo settlement date

10 days cancellation

no living expenses

3.50
$3.80

$1.00 30¢ 15¢
.50

50

60 10¢

600

$6.00
6.00

500.00
$50.00 $300

1000 tons 13.50
50.00
100.00

16

Within 2 days after last smelter returns are ~~15 day or~~ in make settlement dry weight

P.O. Box 602

George D. French Phoenix
Bullard Golds Mines Inc.
J. P Smith Vice Pres.

EXPLANATION

- Building
- Claim corner, approximate location
- Head / Foot: Shaft
- Inclined shaft
- Raise or winze
- Inclined raise or winze
- Underground workings, step-down indicated
- el. 3167 — Elevation of base of lode
- Tramway
- Amygdaloidal lavas, flow breccias, and small irregular intrusive bodies
- Clastic beds
- Siliceous vein occupying fault or fissure, showing vertical and inclined dip and pitch of grooves or striae; U=upthrow, D=downthrow
- Underground vein showing vertical and inclined dip and pitch of grooves or striae
- Bullard lode
- Strike and dip of bedding
- Pitch of grooves or striae

GEOLOGIC MAP OF BULLARD MINE AND VICINITY, YAVAPAI COUNTY, ARIZONA

0 50 100 200 300 Feet

Contour interval 20 feet, datum assumed
Grid arbitrary

1960-01-0038-15

1" = 40'

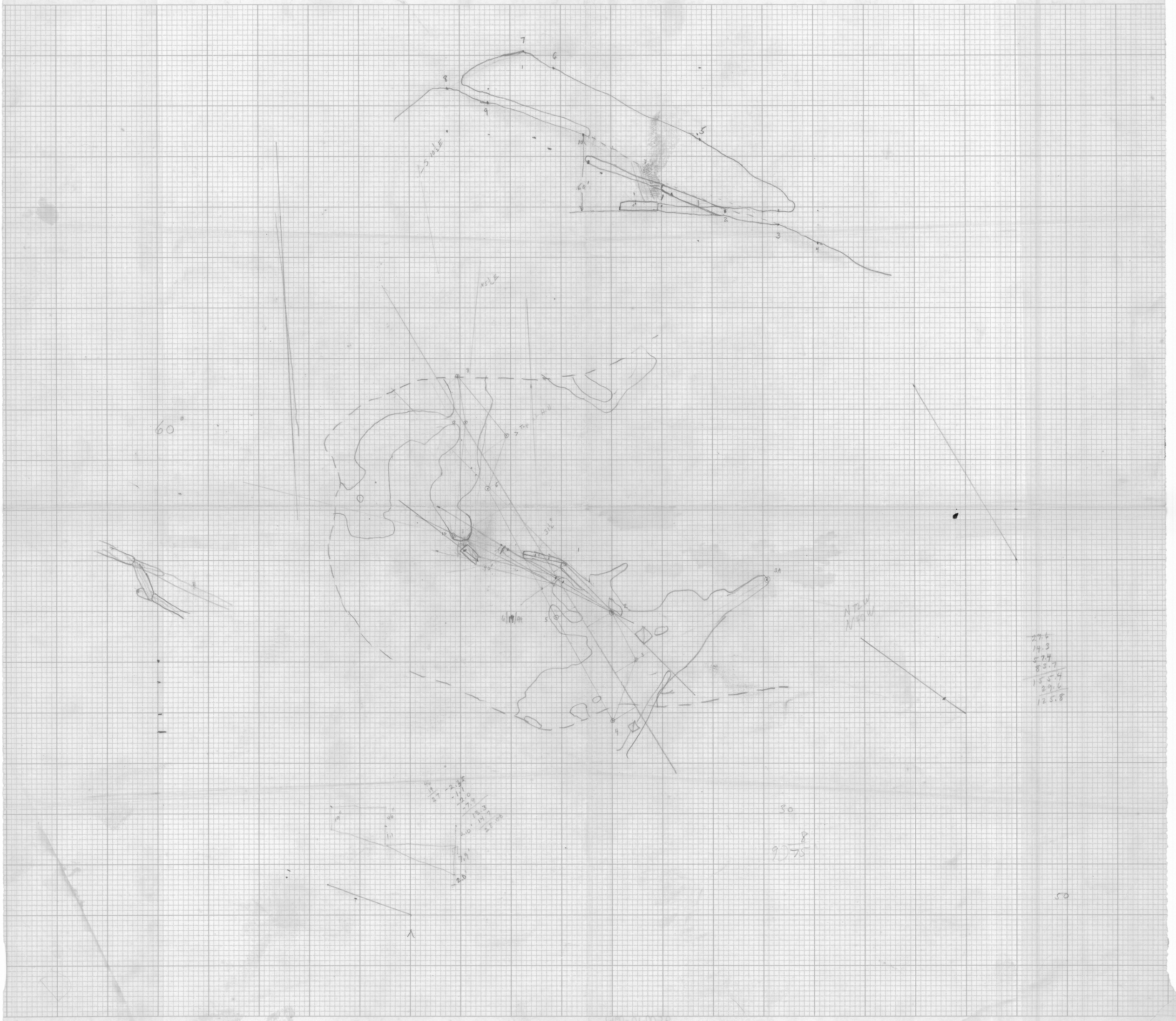
KEUFFEL & ESSER CO.
NEW YORK
TRADE STANDARD MARK
REG. U.S. PAT. OFF.
CROSS SECTION 10 X 10
100% RAG PAPER
MADE IN U.S.A.

1960-01-0038

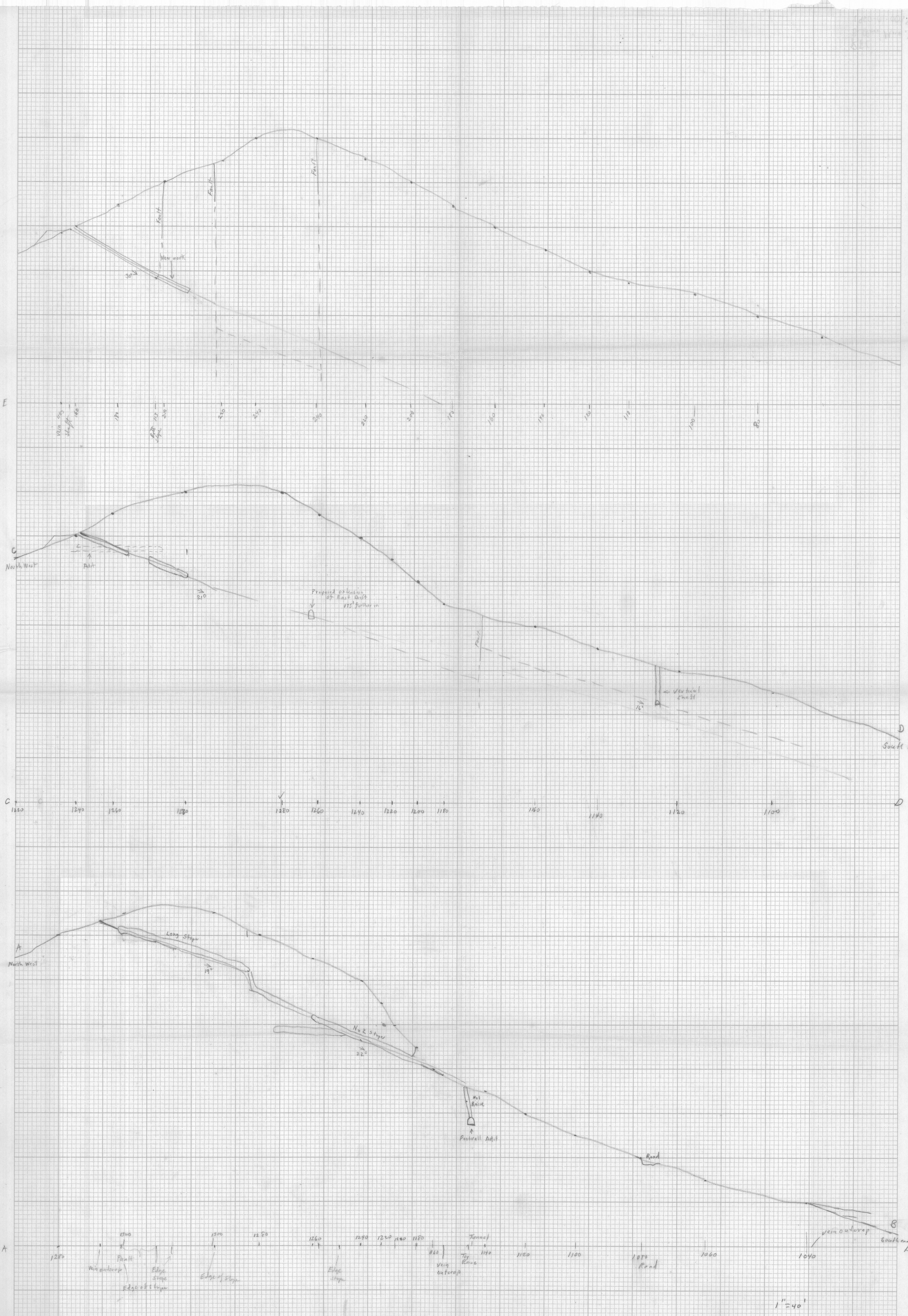
KEUFFEL & ESSER CO.
NEW YORK

1" = 40

TRADE STANDARD MARK
REG. U.S. PAT. OFF.
CROSS SECTION 10 X 10
100% RAG PAPER
MADE IN U.S.A.



1960-01-0038-13



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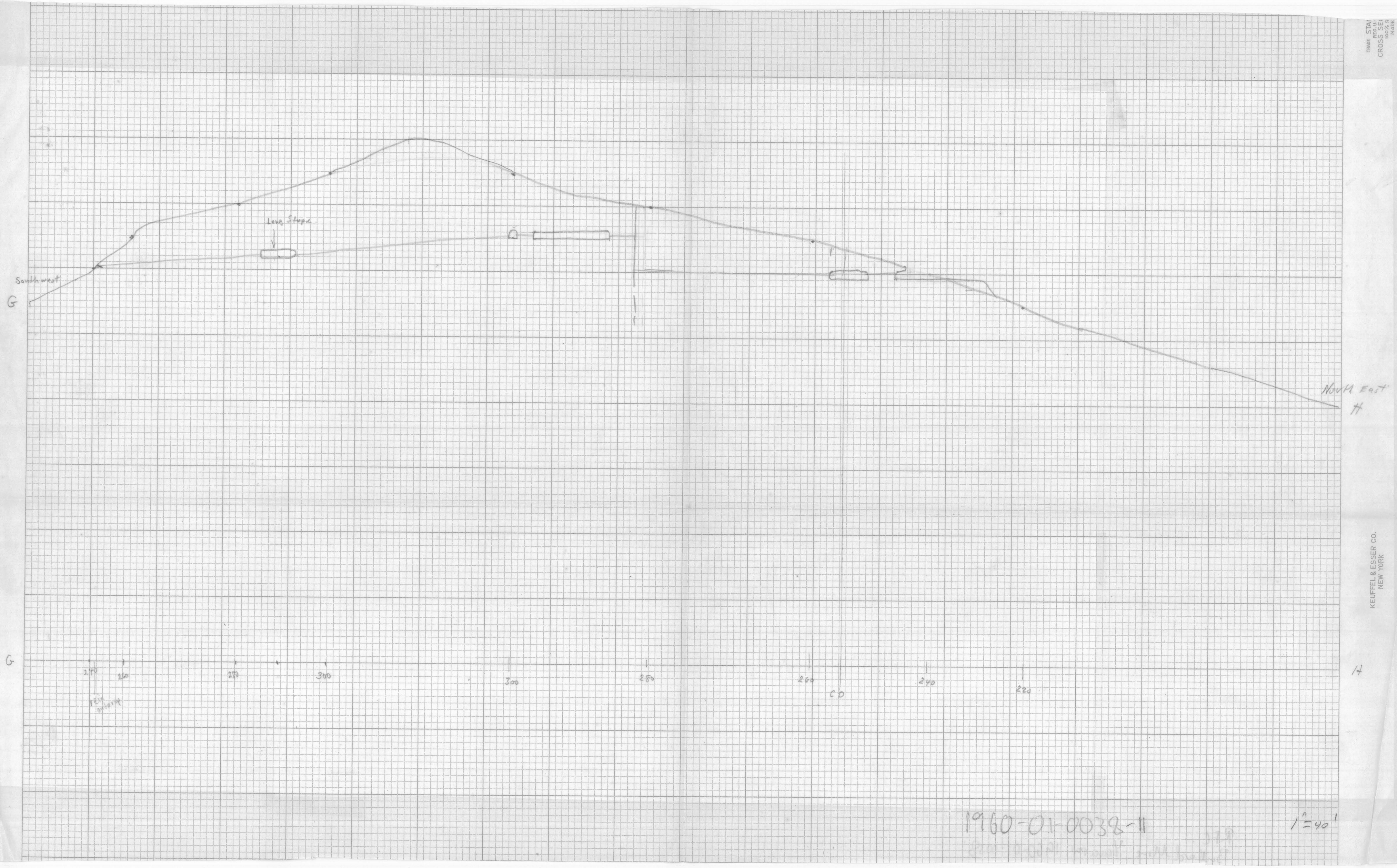
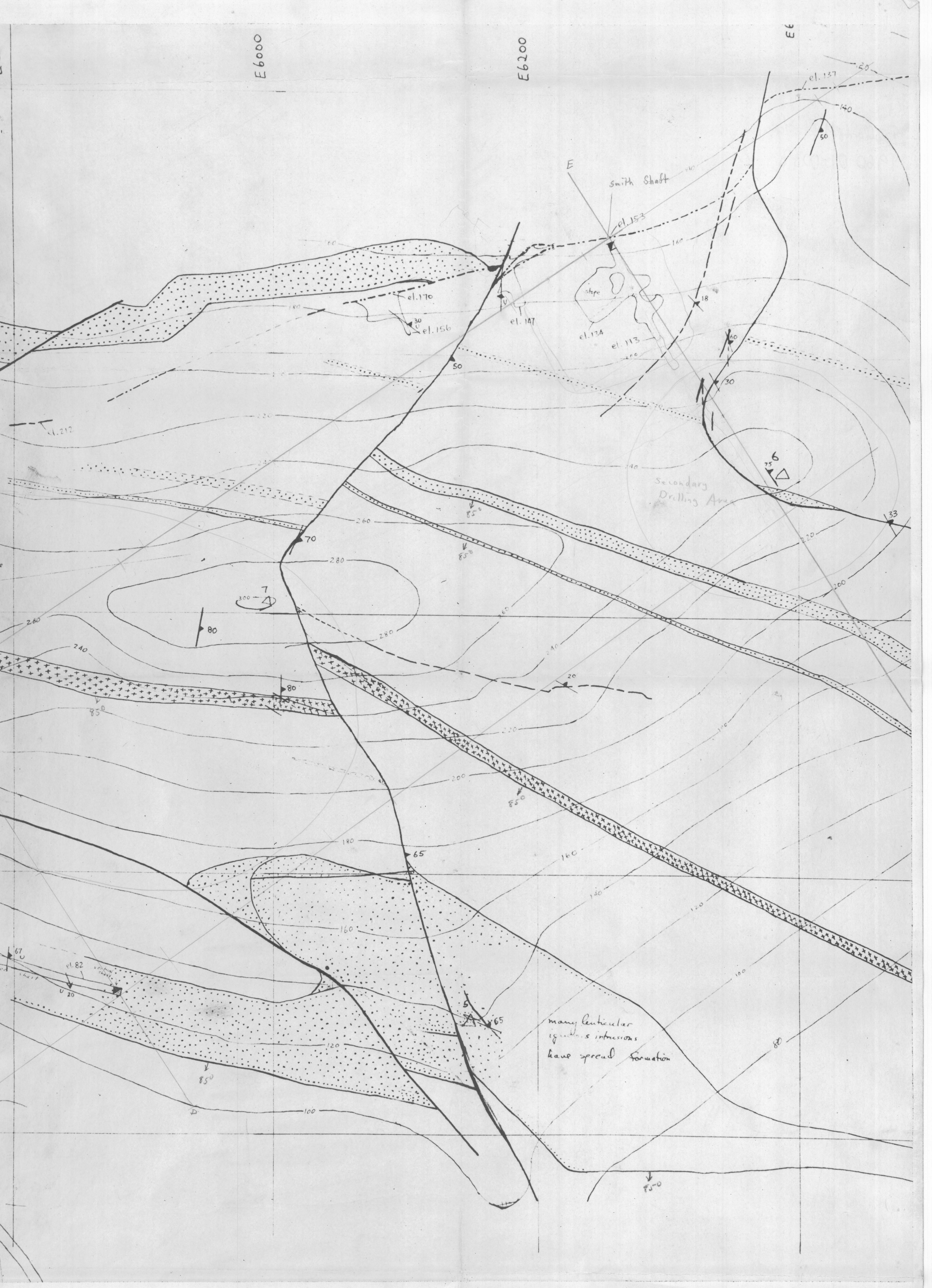

Long Stope
Southwest
G
North East
H
G
240
260
280
300
300
280
260
CD
240
220
H
1960-01-0038-11
1"=40'



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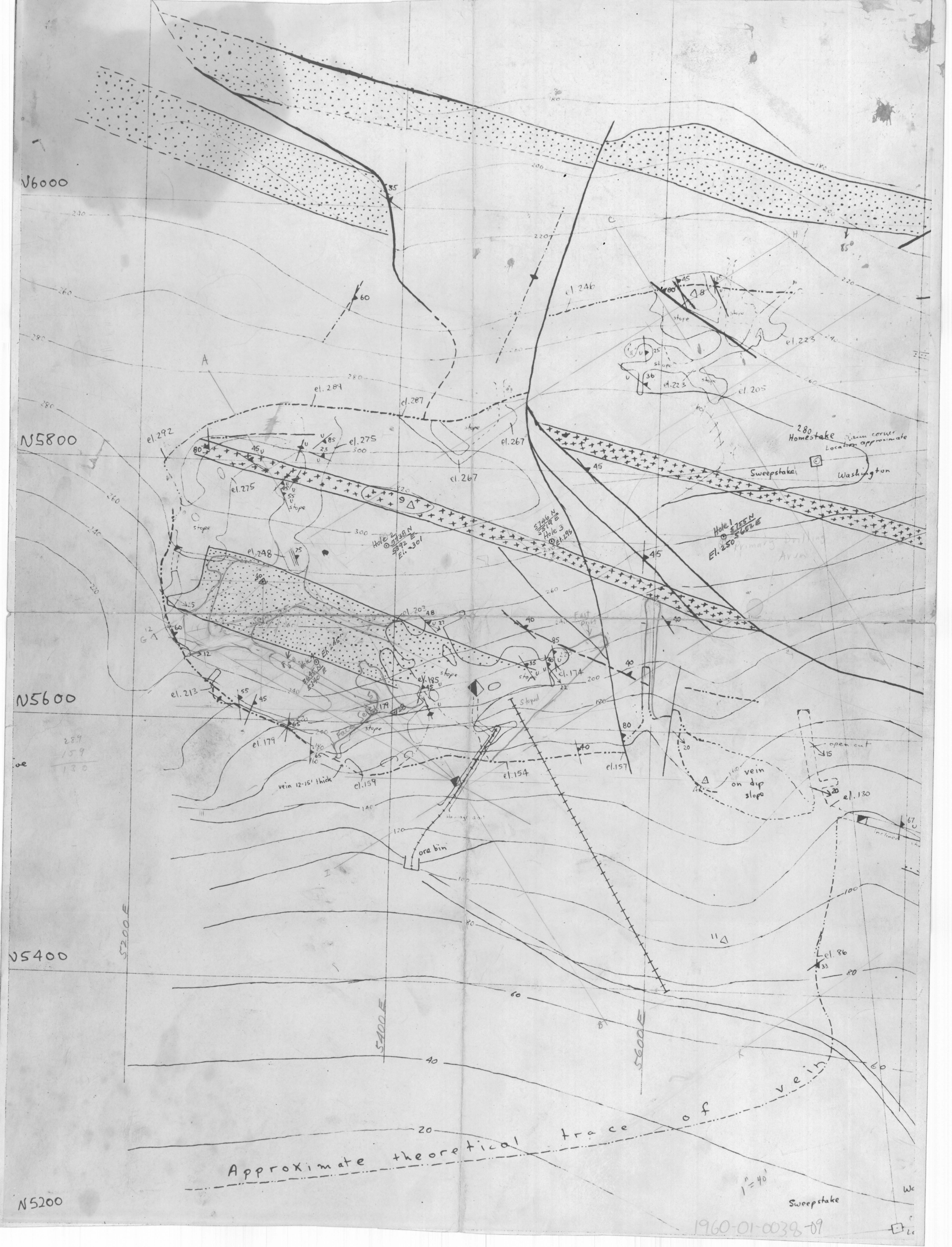
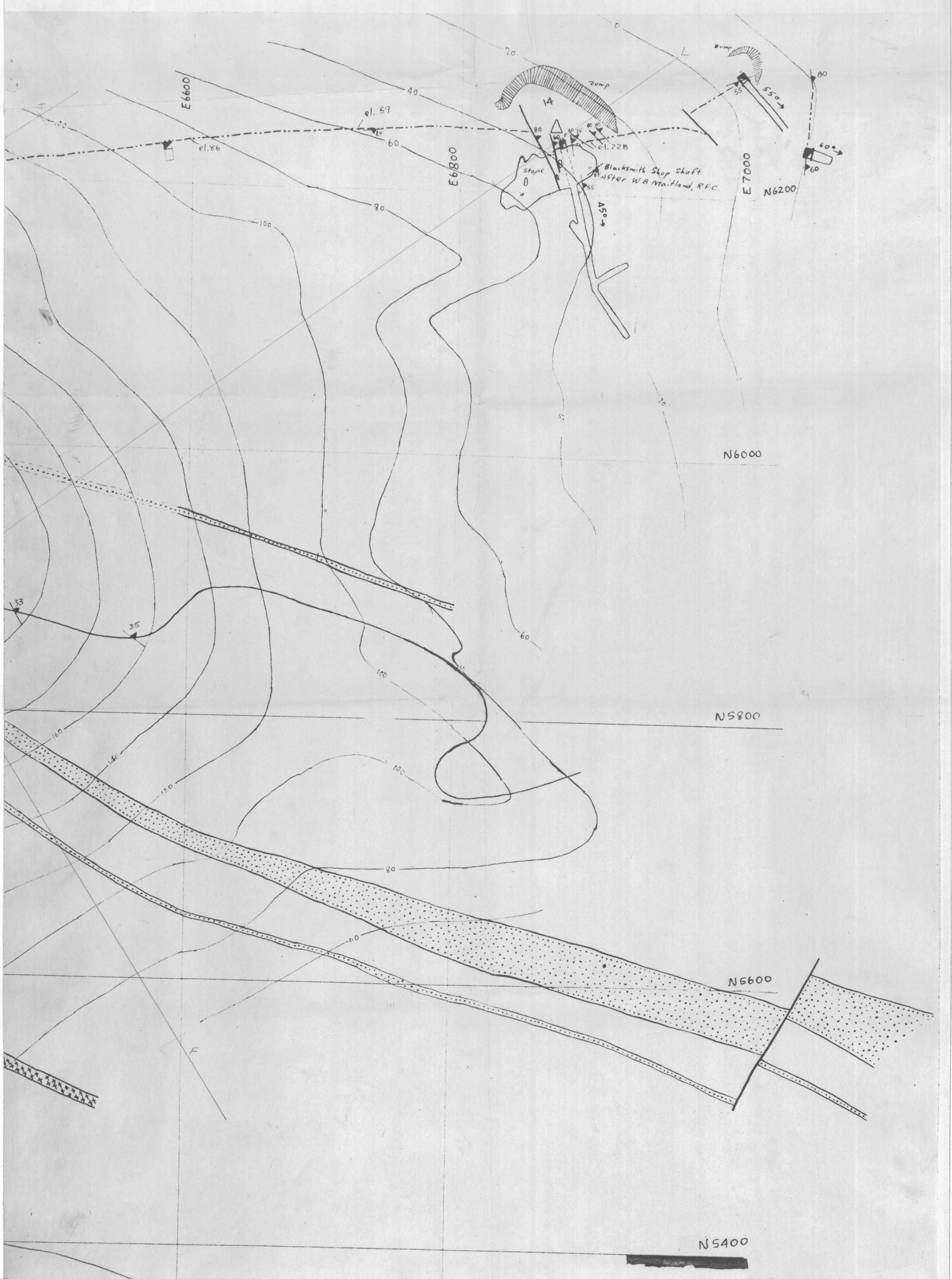

N6000
N5800
N5600
N5400
N5200
5200E
5400E
5600E
Homestake
Sweepstake
Washington
Hole 1
Hole 2
Hole 3
el. 292
el. 289
el. 287
el. 275
el. 267
el. 248
el. 246
el. 223
el. 205
el. 213
el. 203
el. 185
el. 179
el. 174
el. 159
el. 154
el. 157
el. 130
el. 86
vein 12-15' thick
ore bin
vein on dip slope
open cut
stope
Approximate theoretical trace of vein
1" = 40'
1960-01-0038-09



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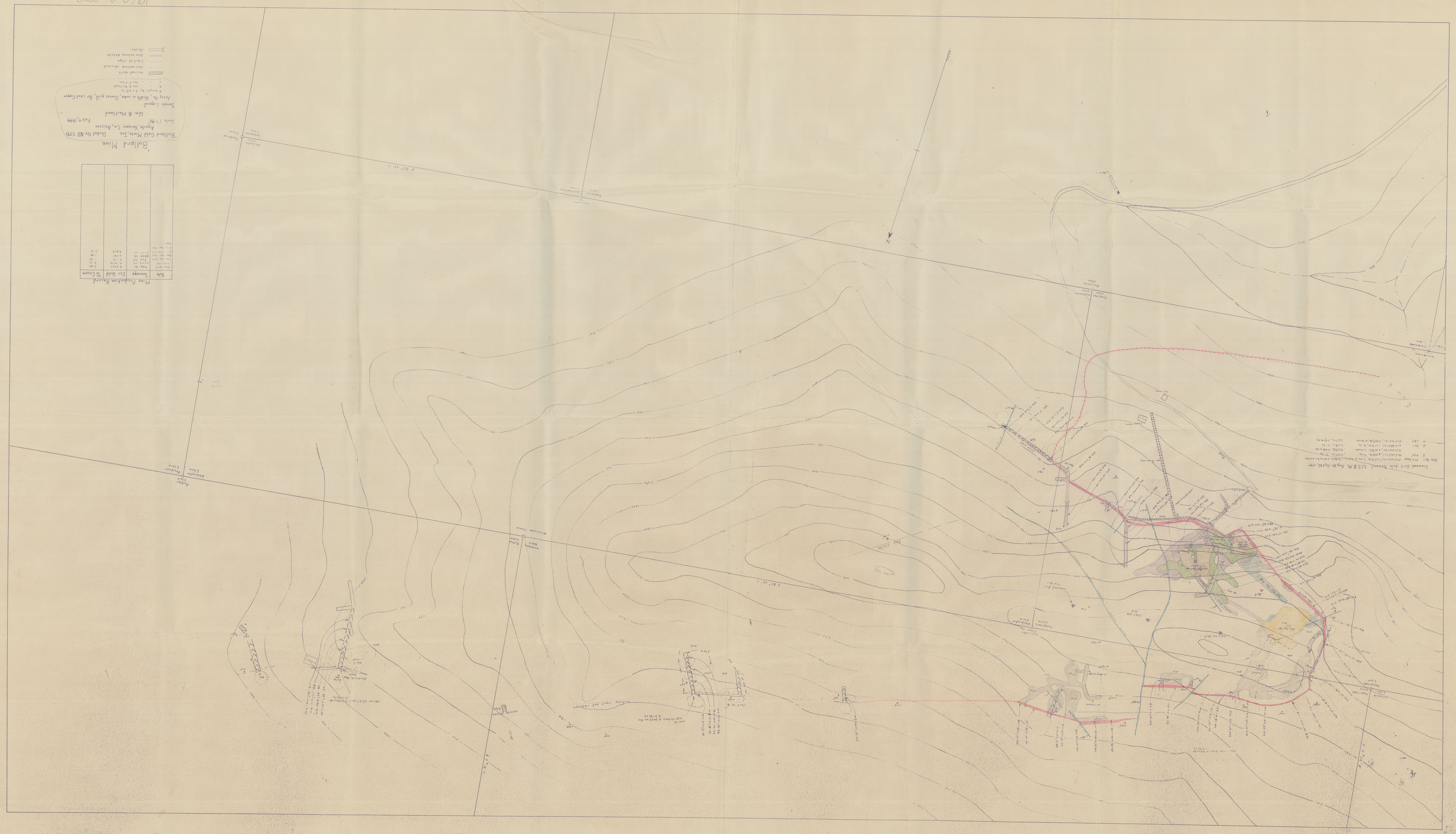

19660-01-0038

1960-01-0038-06

Mining Costs 'Bullard Gold Mines Inc

Nov 1943 to Nov 1944 Inclusive

360.12
157.14
517.26
228.25
745.51

#	Item	Nov 1943 Total	Nov 1943 Per ton	Dec 1943 Total	Dec 1943 Per Ton	Jan 1944 Total	Jan 1944 Per ton	Feb 1944 Total	Feb 1944 Per Ton	March 1944 Total	March 1944 Per Ton	Total 5 Mo. Total	Total 5 Mo. Per Ton
1	Wet Tons Ore Shipped	262.41 Tons		644.8500 tons		616.47 tons		378.80 tons		1502.51 tons		3405.04 tons	—
2	Dry tons ore shipped	255.21		609.1105		577.6515		362.0905		1438.8815		3242.944	—
3	Net value of ore at Mine Bin	$1940.53	$7.60	$3605.89	$5.91	$3302.59	$5.75	$2191.02	$6.06	$6818.22	$4.75	$17,858.25	$5.50
4	Wages Total (A to I inclusive)	$1622.16	6.36	$2393.54	3.93	1870.46	3.24	$2386.06	6.59	3523.98	2.45	$12,196.20	3.64 ✓
	A Supervision	450.00		450.00		450.00		375.00		400.00		2,125.00	0.65
	B Mine surface—general	136.28		196.16		258.00		200.00		232.02		1,022.46	0.32
	C Mine development	581.81		—		—		—		—		581.81	0.18
	D Construction - surface	62.40		193.44		100.00		718.03		241.90		1315.77	0.41
	E Road	—		—		—		—		—		—	—
	F Office	—		—		—		—		—		—	—
	G Mining - direct	391.67		1553.94		1062.46		1093.03		2650.06		6751.16	2.08
	H. Total Stoping Cost (A,B,F,G)	977.95	3.83	2200.10	3.61	1770.46	3.06	1668.03	4.61	3282.08	2.28	9898.62	3.05 ✓
	I Total labor capital investment (C,D,E)	644.21		193.44		100.00		718.03		241.90		1897.58	0.59 ✓
(5)	Tons ore per day	9.8	(26 days)	22.6	(27 days)	21.4	(27 days)	14.5	(25 days)	53.3	(27 days)	24.6	(132 days)
(6)	Tons " per shift	9.8		22.6		21.4		14.5		26.7		19.0	(6 shifts)
(7)	Tons per man shift	1.4	(182 man shifts)	2.3	(264.8 man shifts)	2.7	213.9 (man shifts)	1.2	(301.74 man shifts)	4.1	(355 man shifts)	2.5	(1317.44 man shifts)
8	Supplies Mining (A to I inclusive)	605.21	2.37	494.52	0.81	370.11	0.64	438.93	1.21	1029.33	0.72	2938.10	0.91
	A Powder	107.78		250.00		158.94		148.00		355.20		1019.92	0.32
	B Caps	10.00		16.00		11.14		11.00		25.00		73.14	0.02
	C Fuse	20.00		39.58		25.86		30.10		57.40		172.94	0.05
	D Carbide	2.00		3.25		5.42		5.42		10.20		26.29	0.01
	E Bits	4.00		8.97		65.64		75.06		241.50		395.17	0.12
	F Steel	—		7.25		—		42.00		79.00		128.25	0.04
	G Gas + oil (compressor)	357.25		33.87		74.28		77.90		171.22		714.52	0.22
	H Timber	100.38		120.00		—		30.00		43.00		293.38	0.09
	I Misc	3.80		15.60		28.83		19.45		46.81		114.49	0.04
9	Industrial Insurance	123.45		182.15		142.34		181.58		268.17		897.69	0.28
10	Automobile Expense (A to C inclusive)	92.00		54.55		61.75		66.05		65.30		339.65	0.10
	A Insurance	3.35		3.35		3.35		3.35		3.35		16.75	0.01
	B Gas + Oil	43.20		44.50		53.95		$58.50		56.45		256.60	0.08
	C Repairs + Service	45.45		6.70		4.45		4.20		5.50		66.30	0.01
11	Equipment Purchases	791.56		569.10		527.02		465.29		1582.65		3935.62	1.21
12	Road Repair	34.42	—	—	—	—	—	—	—	—	—	34.42	0.01
13	Office Expense	30.00	—	30.00	—	33.53	—	43.03	—	34.34		170.90	0.05
14	Assaying	22.50	—	75.00	—	138.50	—	72.50	—	109.00	—	417.50	0.13
15	Interest on Loan	48.76	—	48.76	—	48.76	—	48.76	—	48.76	—	243.80	0.08
16	Bank Fees	12.50	—	12.50	—	12.50	—	12.50	—	12.50		62.50	0.02
17	Misc General Expense	76.50		78.00		71.19	—	172.92		231.95		630.56	0.19
18	Total Expense (8 to 17 inclusive)	1836.90	7.20	1544.58	2.54	1405.70	2.43	1501.56	4.15	3382.00	2.35	9670.74 ✓	2.98 ✓
19	Total Stoping cost (4H + 8)	1583.16	6.20	2694.62	4.42	2140.57	3.71	2106.96	5.82	4311.41	3.00	12,836.72 ✓	3.96 ✓
20	Total Over All expense (4 to 17 inclusive)	3459.06	13.55	3938.12	6.47	3276.16	5.67	3887.62	10.73	6905.98	4.80	21,466.94	6.62 ✓
21	Total Direct mining Cost (4H,8,9,10,12,13,14,15,16,17)	2023.29	7.93	3175.58	5.21	2649.14	4.59	2704.30	7.47	5081.43	3.53	15,633.74	4.82 ✓
22	Net operating Profit (3 − 21)	82.76	0.33	430.31	0.71	653.45	1.13	513.28	1.41	1736.79	1.21	2,224.51	0.68 ✓
23	~~Net~~ Receipts less expenditures 3-20	1518.53	5.95	332.23	0.55	26.43	0.05	1696.60	4.69	87.76		3608.69	1.11

#	Item	Apr Total	Apr Per Ton	May Total	May Per Ton	June Total	June Per Ton	July Total	July Per Ton	August Total	August Per Ton	Sept Total	Sept Per Ton	Oct Total	Per Ton
1	Wet Tons Ore Shipped	1776.94		876.79		95.48		342.20		687.28		535.60			
2	Dry tons ore shipped	1695.6295		850.604		93.093		329.311		670.050		520.534			
3	Net value of ore at Mine Bin	12,594.64	7.42	3015.30	3.54	824.06	8.85	3160.81	9.59	5260.16	7.83	4833.79	9.29		
4	Wages Total (A to I inclusive)	3490.65	2.06	3592.73	4.22	3013.92	32.38	3133.71	9.52	2660.64	3.97	1813.10	3.48	1834.71	
	A Supervision	400.00		400.00		400.00		450.00		450.00		450.00		450.00	
	B Mine surface—general	372.14		170.00		70.00		60.00		70.00		182.55		60.00	
	C Mine development	—	—	1870.00		2307.58		1100.00		45.00		—		—	
	D Construction - surface	245.00		250.00		136.34		45.00		30.00		—		—	
	E Road	—	—	160.00		—		—		—		—		—	
	F Office	—	—	—		—		—		—		—		—	
	G Mining - direct	2473.51		1542.73		100.00		1478.71		2065.64		1180.55		1324.71	
	H. Total Stoping Cost (A,B,F,G)	3245.65	1.92	2112.73	2.48	170.00	1.83	1988.71	6.04	2585.64	3.86	1813.10	3.48	1324.71	
	I Total labor capital investment (C,D,E)	245.00		1480.00		2443.92		1145.00		75.00		—		—	
(5)	Tons ore per day	65.2	(26 day)	31.5	(27 days)	3.6	(26 days)	12.67	26 days	25.8	26 days	20.8	25 days		27 days
(6)	Tons " per shift	32.6		15.7	(54 shifts)	1.5	62 shifts	5.5	60 shifts	12.9	52 shifts	20.8	25 shifts		27 shifts
(7)	Tons per man shift	4.7	364 man shifts	2.02	421 man shifts	0.4	219 man shifts	0.9	358 man shifts	2.1	314.5 man shifts	2.8	187 man sh		200 man shifts
8	Supplies Mining (A to I inclusive)	700.59	0.41	1092.06	1.29	829.07	8.91	793.50	2.41	1105.58	1.65	440.24	0.85	610.89	
	A Powder	253.82		297.18		218.30		188.70		192.40		122.10		144.30	
	B Caps	22.00		26.00		20.46		17.20		18.34		12.60		12.60	
	C Fuse	51.80		63.00		48.30		42.00		37.10		29.40		29.40	
	D Carbide	7.20		9.00		7.80		9.00		12.00		7.50		3.90	
	E Bits	38.75		237.95		86.75		168.85		210.60		27.00		150.70	
	F Steel	81.50		52.50		28.50		10.00		308.50		49.75		40.00	
	G Gas + oil (compressor)	160.19		174.51		171.59		183.48		189.06		124.67		99.64	
	H Timber	54.00		74.76		150.00		48.00		56.00		38.00		9.00	
	I Misc	31.33		157.16		197.37		126.27		81.58		29.82		121.35 +	
9	Industrial Insurance	265.64		273.00		229.36		238.48		202.10		137.90		152.83	
10	Automobile Expense (A to C inclusive)	173.20		101.12		153.47		250.63		283.83		141.64		50.79	
	A Insurance	3.35		3.35		3.35		3.35		3.35		3.35		3.35	
	B Gas + Oil	82.29		97.77		115.23		150.12		75.96		82.29		44.44	
	C Repairs + Service	87.56		—		34.89		97.16		204.52		56.00		30.00	
11	Equipment Purchases	1493.47		1436.53		263.23		—		—		300.00		—	
12	Road Repair	—		—		—		—		—		—		—	
13	Office Expense	54.68		2.91		37.18		30.00		30.00		30.00		30.00	
14	Assaying	109.00		99.50		25.50		15.00		44.50		32.50		24.00	
15	Interest on Loan	48.76		48.76		48.76		48.76		48.76		48.76		48.76	
16	Bank Fees	12.50		12.50		12.50		12.50		12.50		12.50		12.50	
17	Misc General Expense	745.51		261.83		188.68		260.00		378.78		130.00			
18	Total Expense (8 to 17 inclusive)	3554.59	2.10	3328.21	3.91	1787.75	19.20	1648.87	5.01	2106.05	3.14	1136.24	2.18		
19	Total Stoping cost (4H + 8)	3946.24	2.33	3204.79	3.76	300.00	3.22	2782.21	8.45	3691.22	5.51	2253.34	4.43		
20	Total Over All expense (4 to 17 inclusive)	7045.24	4.16	6920.94	8.14	4801.67	51.58	4782.58	14.52	4766.69	7.11	2949.34	5.67		
21	Total Direct mining Cost (4H,8,9,10,12,13,14,15,16,17)	5355.53	3.16	4004.41	4.71	300.00	3.22	3637.58	11.05	4691.69	7.00	2649.34	5.09		
22	Net operating Profit (3 − 21)	7239.11	4.26	4989.11	1.87	524.06	5.63	476.77	1.45	568.47	0.85	2184.45	4.20		
23	Receipts less expenditures 3-20	5549.40	3.27	3905.64	4.59	4347.61	42.73	1621.77	4.92	493.47	0.74	1884.45	3.62		

=2
8614
8981

282
54496
54778

98.46
43.76
54.70
3.12
57.82

Ballard Gold Mines Inc   Ore Marketing Data

1960-01-0038-05
BE5/M

Car Number	Bill of Lading Date	Wet Short Tons	Dry Short Tons	Ounces per Ton Gold	Smelter Payment per ton for gold Net	ozs Gold per car on assay value	% Copper per ton	Gross lbs Copper per car on assay value	Smelter Net Payment for Copper per Ton	Total Smelter Payment per ton for metals	Smelting Charge per ton	Trans. Tax per car on smelting	RR. Frt per Ton	Misc Charges per Car	Royalty per ton 10%	Total Smelter charges per car	Total freight per car RR	Total royalty per car	Total hauling per car $1/ton wet	Trans tax Freight total	Trans tax hauling total	Net Value per ton at Smelter	Total smelter net pay. per car Bal due shipper	Total Marketing Charges per Car	Gross per car (Smelter)	Premium Payment per Car Assay x97% x12.7¢ (12.319)	Total Payment to shipper per Car	Premium payment per ton	Total net payment per ton dry smelter + premium
1	Nov. 1, 1943	60.5600	59.349	0.052	1.68	3.086	2.03	2410.57	2.80	4.48	1.75	0.59	1.85	—	0	103.86	112.04	—	60.56	3.36	1.82	2.72	16.67	282.55	161.43	296.89	280.22	5.00	4.72
2	17	50.5900	49.5275	.065	2.10	3.219	1.81	1793.90	2.42	4.52	1.75	.50	1.85	—	0	86.67	93.59	—	50.59	2.81	1.52	2.76	11.81	235.68	136.70	220.88	209.07	4.45	4.22
3	22	49.2100	48.4225	.080	2.59	3.874	1.65	1598.94	2.15	4.74	1.75	—	1.85	-	0	84.74	91.04	.03	49.21	2.73	1.48	2.99	.29	229.71	144.78	196.86	197.15	4.07	4.07
4	23	50.7100	49.1380	.195	6.30	9.582	1.94	1907.55	2.65	8.95	1.75	.49	1.85	-	0.42	85.99	93.81	20.45	50.71	2.81	1.52	7.19	184.80	252.63	353.30	234.92	418.92	4.82	8.53
5	29	51.3400	48.7730	.415	13.41	20.241	2.81	2741.04	4.14	17.55	2.51	.49	2.40	0.47	1.13	122.42	123.22	55.28	51.34	3.70	1.54	15.03	497.51	358.65	733.06	337.66	835.17	6.92	17.12
5	Nov. Total	262.4100	255.2100	0.157	5.07	40.002	2.05	10,449.00	2.84	7.91	1.90	2.07	2.01	0.47	0.30	483.68	513.70	75.76	262.41	15.41	7.88		653.32	1359.22	1529.27	1287.21	1990.53	5.65	7.60 ✓
6	Dec 8	56.3300	53.4010	0.225	7.27	12.015	2.94	3140.00	4.37	11.64	1.75	.53	1.85	1.22	0.68	93.45	104.21	36.10	56.33	3.13	1.69	9.38	324.92	296.67	527.60	386.82	711.54	7.24	13.32
7	7	57.0800	54.0550	0.165	5.33	8.919	2.51	2714.00	3.63	8.96	1.75	.54	1.85	4.12	0.40	94.60	105.60	21.75	57.08	3.17	1.71	7.20	195.87	284.54	389.20	334.34	530.61	6.19	9.82
8	10	57.7800	54.6600	.090	2.91	4.919	2.33	2547.00	3.32	5.61	1.75	.55	1.85	-	0.14	95.66	106.89	7.47	57.78	3.21	1.73	4.47	67.25	269.89	244.33	313.77	350.50	5.74	6.41
9	10	58.8000	55.3310	.217	7.01	12.007	2.20	2435.00	3.10	10.11	1.75	.55	1.85	3.06	0.52	96.83	108.78	28.58	58.80	3.26	1.76	8.34	257.22	297.33	461.46	299.97	509.14	5.42	9.20
10	15	63.4100	60.3665	.100	3.23	6.037	1.81	2185.00	2.42	5.65	1.75	.60	1.85	0.82	0.08	105.64	117.31	4.79	63.41	3.52	1.90	3.59	43.08	278.00	234.83	269.17	312.31	4.46	5.17
11	16	56.0100	53.7135	.083	2.68	4.458	1.53	1644.00	1.94	4.62	1.75	.54	1.85	-	0	94.00	103.62	—	56.11	3.11	1.68	2.87	22.56	258.42	154.16	202.52	169.68	3.77	3.16
12	17	60.8900	56.6885	.085	2.75	4.819	1.59	1803.00	2.05	4.80	1.75	—	1.85	.085	0	99.21	112.65	—	60.89	3.38	1.83	3.05	72.56	278.81	172.90	222.11	182.63	3.92	3.22
13	19	61.3700	56.9515	.043	1.39	2.449	1.71	1948.00	2.25	3.64	1.75	—	1.85	-	0	99.67	113.53	—	61.37	3.41	1.84	1.88	73.08	280.39	107.07	239.97	166.88	4.21	2.93
14	22	57.8900	54.7640	.047	1.52	2.574	1.61	1763.00	2.08	3.60	1.75	—	1.85	-	0	95.84	107.10	—	57.89	3.21	1.74	1.85	68.63	265.78	101.31	217.18	148.55	3.97	2.71
15	29	58.6900	55.4035	.048	1.55	2.659	1.83	2028.00	2.46	4.01	1.75	.55	1.85	-	0	96.96	108.58	—	58.69	3.26	1.76	1.86	47.63	279.81	124.66	249.83	202.20	4.51	3.65
16	28	56.6000	53.7760	.035	1.13	1.882	1.39	1495.00	1.70	2.83	1.75	—	1.85	-	0	94.11	104.71	—	56.60	3.14	1.70	1.08	108.08	260.26	58.07	184.17	76.09	3.42	1.41
11	Dec Total	644.8500	609.1105	0.103	3.33	62.738 ✓	1.94	23,702.00	2.65	5.98	1.75	3.86	1.85	1.07	0.16	1065.97	1192.98	98.69	644.95	35.80	19.34		686.04 ✓	3069.90	2575.59	2919.85	3605.89	4.78	5.48 ✓
	1943 Total	907.2600	864.3205	0.119	3.85	102.74	1.97	34,151.00	2.70	6.55	1.79	5.93	1.88	10.54	0.20	1549.65	1706.68	174.45	907.36	51.21	27.22		1339.36	4429.12	4104.86	4207.06	5546.42	4.86	6.13
16A	Special from dump Jan 3, 1944	43.7600	41.7910	0.025	0.00	—	1.60	1337.00	2.06	2.06	1.75	—	1.85	57.82	0	76.58	80.96	—	43.76	2.43	2.95	0.11	174.96	264.50	12.96	164.71	10.25	3.94	0.25
17	Jan 8	55.1100	51.3625	.043	1.39	2.21	1.90	1952.00	2.58	3.97	1.75	.51	1.85	—	0		101.95	—	55.11	3.06	1.65	2.21	48.26		113.51	240.47	192.21		
18	7	53.8800	50.8625	.042	1.36	2.14	2.17	2207.00	3.04	4.40	1.75	.51	1.85	-	0		99.68	-	53.88	2.99	1.62	2.64	23.89		134.28	271.88	247.99		
19	11	49.6100	47.1295	.040	1.29	1.89	1.83	1725.00	2.46	3.75	1.75	.47	1.85	6.12	0		91.73	-	49.61	2.75	1.49	2.99	57.98		93.79				
20	12	55.000	51.5900	.058	1.87	2.99	2.20	2270.00	3.10	4.97	1.75	.52	1.85	2.19			101.75	.18	55.00	3.05	1.65	3.21	1.58		165.60				
21	13	56.9700	53.9505	.093	3.01	5.01	1.66	1791.00	2.17	5.18	1.75	.54	1.85	-			105.39	1.73	56.97	3.16	1.71	3.42	15.55		184.51				
22	17	57.1400	53.8260	.062	2.00	3.34	2.01	2164.00	2.77	4.77	1.75	.54	1.85		0		105.71	—	57.14	3.17	1.71	3.01	5.71		162.02				
23	18	57.0100	53.0195	.108	3.49	5.73	1.85	1962.00	2.49	5.98	1.75	.53	1.85	1.15			105.47	5.51	57.01	3.16	1.71	4.22	49.63		223.74				
24	22	57.3700	53.2965	0.105	3.39	5.60	2.11	2249.00	2.94	6.33	1.75	.53	1.85	-			106.13	7.52	57.37	3.18	1.72	4.57	67.65		243.57				
25	24	57.2300	53.9680	0.19	6.14	10.25	2.66	2871.00	3.89	10.03	1.75	.54	1.85	-			105.88	27.83	57.23	3.18	1.72	8.27	250.48		446.32				
26	28	60.440	57.0555	0.057	1.84	3.25	2.51	2864.00	3.63	5.47	1.75	.57	1.85	0.93			111.81	3.33	60.44	3.35	1.81	3.71	30.01		211.68				
27	Feb 1	56.7100	53.591	0.065	2.10	4.25	2.20	2358.00	3.10	5.20	1.75	.54	1.85	—			104.91	3.58	56.71	3.15	1.70	3.44	38.41		208.46				
11	Jan Total	616.4700	577.6515	0.080	2.59	45.90	2.11	24413.00	2.94	5.53	1.75	5.80	1.85	10.69	0.08	1010.89	1140.41	47.89	616.57	34.20	18.49		295.15	2883.15	2187.48	3007.44	3302.59	5.21	5.68 ✓
28,29,30	Feb. 12	160.3400	153.0940	0.117	3.78	17.91	2.26	6920.00	3.20	6.98	1.75	1.53	1.85	0.52			296.64	32.79	160.34	8.90	4.81	5.62	295.15		799.15				
31	Feb 15	55.0900	52.6110	.075	2.42	4.48	1.86	2031.00	2.51	4.93	1.75	.53	1.85	3.06			101.92	.20	55.09	3.06	1.65	3.17	21.69		189.93				
32,33,34	19	163.3700	156.3855	.068	2.20	11.54	1.95	6099.00	2.67	4.87	1.75	1.56	1.85	4.72			302.23	—	163.37	9.07	4.90	3.11	29.29		517.64				
7	Feb Total Umpired	378.8000	362.0905	0.094	3.04	33.93	2.07	14976.00	2.87	5.91	1.75	3.62	1.85	7.70	0.09	633.66	700.79	32.99	378.80	21.03	11.36		346.13	1778.95	1505.72	1844.89	2191.02	5.10	6.05 ✓
35+36	March 2 ✓	116.9700	111.8780	0.048	1.55	5.37	1.62	3625.00	2.10	3.65	1.75	1.12	1.85	0.78	—		216.39	—	116.97	6.49	3.51	1.90	131.57		212.57				
37	6	59.1900	56.8815	0.055	1.78	3.13	1.82	2070.00	2.44	4.22	1.75	.57	1.85	0.28			109.50	—	59.19	3.29	1.78	2.46	34.11		139.93				
38 39	8 ✓	103.1400	98.4015	0.062	2.00	6.10	1.49	2932.00	1.87	3.87	1.75	.98	1.85	4.44			190.81	—	103.14	5.72	3.09	2.12	98.59		208.61				
40,41,42	10 ✓	159.8800	153.2120	0.035	1.13	5.36	1.49	4566.00	1.87	3.00	1.75	1.53	1.85	8.12			295.78	—	159.88	8.88	4.80	1.25	285.94		191.52				
43,44,45	16 ✓	178.9100	170.1740	0.045	1.45	7.66	1.56	5309.00	1.99	3.44	1.75	—	1.85	3.40			330.99	—	178.91	9.93	5.37	1.69	241.01		287.59				
46,47,48	18 ✓	166.6700	158.8050	0.040	1.29	6.35	1.82	5781.00	2.44	3.73	1.75	1.59	1.85	0.78			308.34	—	166.67	9.35	5.00	1.73	183.31		312.85				
49,50,51,52	22 ✓	241.2500	230.8810	0.05	1.62	11.54	2.05	9466.00	2.84	4.46	1.75	2.31	1.85	6.64			446.32	—	241.25	13.39	7.24	2.70	91.46		623.38				
53,54,55,56,57	29 Umpired too late to add	292.5000	282.0395	0.044 (052)	(1.68) 1.42	12.41	(2.18) 2.15	12,128.00 (+169)	(3.04) 3.01	(4.74) 4.43	1.75	2.82	1.85	(306)			541.13	—	292.50	16.24	8.78	2.67 (2.99)	105.60 (84.37)		(840.48) 753.05				
58,59,60,61	31 ✓	184.0000	176.6090	0.047	1.52	8.30	2.52	8901.00	3.65	5.17	1.96	1.77	1.85				343.53	2.18	184.00	10.31	5.52	3.20	19.61		565.15				
27	March Total	1502.51	1438.8815	0.046	1.49	66.22	1.90	54,778.00	2.58	4.07	1.76	12.69	1.85	21.44	0.002	2532.43	2782.79	2.18	1502.51	83.60	45.09		1151.98	6985.73	3294.65	7970.20	6818.22	5.54	4.74
45	1st Quarter Jan, Feb, March	2497.78	2378.6235	0.061	1.97	146.05	1.98	94,167.00	2.72	4.69	1.76	22.11	1.85	41.83	0.04	4176.98	4623.99	83.06	2497.88	138.83	74.94		510.70	11,647.83	6987.85	12822.53	12311.83 x	5.39	5.18
Total		3405.04	3242.9440	0.077	2.49	248.79	1.98	128,318.00	2.72	5.21	1.77	28.04	1.88	5.37	0.06	5726.63	6330.67	257.51	3405.24	190.04	102.16		828.66	16,076.95	11092.71	17029.59	17858.25	5.25	5.51

1st premium

1960-01-0039-04

Car No	Date Shipped	Moisture	Wet Short Tons	Dry Short Tons	oz Au per Ton	Smelter Payment for Gold per Ton	oz Ag/ton	Smelter Payment for Silver per Ton	oz Au per Car	oz Ag per Car	% Cu/ton	Gross lbs Cu per car	Smelter Net pay for Cu/ton	Total pay per ton for metals	Smelting charge/ton	RR freight per ton	Royalty per ton	Total Smelter charges per car	Total Frt per car	Total Royalty per car	Total Hauling per car	Trans tax freight	Trans Tax hauling	Net Value per Ton at Smelter	Bal Due Shipper	Total marketing charges per car	Smelter gross per car	Premium Pay per car 14.50 #/lb	Total payment to shipper per car	Smelter Net per ton	from pay per ton	Total Net per ton
38	Aug 4	2.11	61.95	60.643	0.12	3.85	0.38	—	7.280	—	2.21	2680	3.17	7.02	2.47	1.30		149.79	80.54	12.92	61.95	2.42	1.86	4.55	116.24		275.73	389.86	506.10			
39 N	7	4.36	60.00	57.384	0.09	2.89	0.31	—	5.165	—	3.09	3546	4.80	7.69	2.52	1.30		144.61	78.00	15.45	60.00	2.34	1.80	5.17	139.09		276.68	516.00	655.09			
40	8	2.23	57.43	56.149	0.09	2.89	0.45	—	5.053	—	2.10	2358	2.97	5.86	2.66	1.30		149.36	74.66	9.36	57.43	2.24	1.72	3.20	39.27		179.68	353.13	392.40			
41	11	3.03	59.47	57.668	0.15	4.82	0.39	—	8.650	—	1.93	2226	2.65	7.47	2.72	1.30		156.86	77.31	13.30	59.47	2.32	1.78	4.25	119.74		273.92	323.77	443.51			
42 43	17	2.66	114.30	111.260	0.16	5.14	0.29	—	17.807	—	1.60	3560	2.04	7.18	2.64	1.30		293.73	148.58	23.43	114.30	4.46	3.43	4.54	210.91		505.12	517.98	728.89			
44	19	2.53	58.33	56.854	0.22	7.07	0.29	—	12.508	—	1.50	1706	1.86	8.93	2.79	1.30		158.62	75.83	21.09	58.33	2.27	1.75	6.14	189.81		347.08	248.22	438.03			
45,6,7	23, 23, 24	1.73	171.02	168.061	0.22	7.07	0.42	—	38.973	—	1.42	4773	1.71	8.78	2.78	1.30		467.21	222.33	60.32	171.02	6.67	5.13	6.00	542.70		1008.37	694.47	1237.37			
48,49	30,31	2.11	104.78	102.031	0.18	5.78	0.52	0.37	18.366	53.06	1.85	3775	2.50	8.65	2.83	1.30		288.75	138.41	34.39	104.78	4.15	2.58	5.82	308.54		593.82	549.26	858.77			
12 cars	Total August	2.51	687.28	670.050	0.167	5.36	—	—	114.797	53.06	1.88	24,624	2.48	7.84	2.70	1.30	0.28	1808.93	835.67	185.26	687.28	26.37	20.05	—	1667.47	3624.06	3482.60	3592.69	5260.16	2.49	5.36	7.85
50	Sept 9	2.66	57.07	55.552	0.19	6.10	0.66	0.47	10.555	36.66	1.91	2122	2.62	9.19	2.94	1.30		163.32	74.19	21.20	57.07	2.23	1.71	6.25	190.80		347.20	308.75	655.95			
51,52	11	2.44	106.52	102.921	0.22	7.07	0.38	—	22.863	—	1.49	3097	1.84	8.91	2.77	1.30		287.86	138.48	38.57	106.52	4.15	3.20	6.14	347.15		638.07	450.61	1088.68			
53	14	2.78	53.63	52.139	0.27	8.67	0.45	—	14.078	—	1.73	1804	2.28	10.85	2.99	1.30		155.90	69.72	28.80	53.63	2.09	1.71	7.96	259.18		415.08	262.48	677.51			
54,55	23	2.30	157.84	154.210	0.15	4.82	0.45	—	23.132	—	1.42	4380	1.71	6.53	2.70	1.30		416.37	205.19	21.67	157.84	6.16	4.74	3.83	195.02		590.62	637.29	1227.91			
57,58,59		3.63	160.54	154.712	0.21	6.75	0.50	0.25	32.470	77.36	1.50	4641	1.86	8.96	2.85	1.30		440.93	208.70	51.50	160.54	6.21	4.82	6.11	588.47		945.29	675.27	1183.74			
10 cars	Total September	2.81	535.60	520.534	0.198	6.36	—	—	103.118	114.02	1.54	16044	1.93	8.29	2.81	1.30	0.32	1464.38	696.28	166.74	535.60	20.89	16.18	—	1500.62	2900.07	2936.21	2334.40	4833.79	4.81	4.48	9.29
60,61	October 12	2.29	102.99	109.632	0.27	8.67	0.63	0.44	27.171	63.40	1.24	2496	1.37	10.48	2.80	1.30		287.77	133.89	52.89	102.99	4.02	3.19	7.68	475.97		772.85	363.18	839.14			
62	Oct 17	2.10	54.91	58.757	0.16	5.14	0.44	—	9.600	—	1.36	1462	1.60	6.74	2.60	1.30		139.77	71.38	9.25	54.91	2.14	1.65	4.14	83.22		222.55	212.72	295.94			
63,64	Oct 19	1.96	55.00	53.922	0.12	3.85	0.41	—	6.471	—	1.85	2027	2.56	6.41	2.61	1.30		140.74	71.50	7.46	55.00	2.15	1.65	3.80	67.14		204.90	294.93	362.07			
64	Oct 24	3.53	57.06	55.044	0.19	6.10	0.53	0.37	19.959	29.17	1.62	1783	2.08	8.55	2.77	1.30		152.48	74.18	18.30	57.06	2.23	1.71	5.78	164.69		318.17	259.43	424.12			
65	Oct 30	3.09	55.24	53.573	0.09	2.89	0.44	—	4.818	—	1.82	1949	2.45	5.04	2.50	1.30		133.83	71.81	2.12	55.24	2.15	1.66	2.84	19.05		152.03	283.58	302.63			
66	Oct 31	2.59	57.53	56.040	0.06	1.93	0.52	0.37	2.362	29.14	1.59	1782	2.02	4.32	2.63	1.30		147.39	74.79	—	57.53	2.24	1.73	1.69	-41.58		94.71	259.28	217.70			
7 cars	Total October	2.56	382.73	372.93	0.163	5.24		0.22	68.881	121.71	1.54	11,499	1.93	7.39	2.67	1.30	0.24	995.98	497.55	90.02	382.73	14.93	11.59	—	768.49	1992.80	1765.21	1673.11	2441.60	2.06	4.49	6.55
143	Total for year 1944	4.04	8102.06	7775.095	1944+1944				665.1+26 1944+2361			313,583 1943+1944						17,087.13	13,135.92	911.80	8073.51				3663.66		27,535.74	43,986.82 1943+1944	49,588.61			6.43
67,68				108.298	.08	5.472	0.53		57.5		1.43	31,100													-133.54							
69-70				107.581	.11	11.828	.52		65.9		1.35	27,03													-44.76							
71				54.813	.08	4.385	.43				1.24	13.59													-197.62							
72-73				109.825	.07	7.691	.43				1.29	28.35													-244.43							
74				53.994	.12	6.479	.42				1.76	19.01													22.22							
75-76				120.275	.09	10.652	1.16		139.8		1.50	36.17													-46.80							
				833.281					859.1			329,238								708.655					3106.72			2286.60				

60.08 / 58.33 / 1.75

59.26 / 57.53 / 1.73

61.25 / 59.47 / 1.78

59.15 / 57.43 / 1.72

63.81 / 61.95 / 1.86

106.08 / 102.99 / 3.19

56.56 / 54.91 / 1.65

10.73.34 / 144.78 / 2.95

8711 / 135 / 8846   24.87 / 28.09 / .87 / 27.22   117   752   1755   124.08 / 120.76 / 3.62   B25/14

1960-01-0038-03

Bullard Gold Mine Inc   Marketing Data

Car No.	Bill of Lading (AS&R) Date or sampling Date (P.D.)	corrected for Umpire	Wet Short Tons	Dry Short Tons	Ozs Au per Ton	Smelter Payment per ton for Gold Net	Oz Ag per ton	Smelter payment per ton for silver net	Ozs Gold per car on assay Value	Ozs Silver per car on assay Value	% Cu per ton	Gross lbs Cu per car on assay Value
62,63,	Apr. 3	AS+R ✓	115.8300	108.0110	0.05	1.62	0.35	—	5.40	—	2.58	5573
64,65,66	6	" " ✓	173.3700	164.5240	0.075	2.42	0.37	—	12.34	—	2.57	8457
67,68,69	10	" " ✓	178.5000	168.8090	0.125	4.04	0.34	—	21.10	—	2.62	8846
70,71,72	13	" " ✓	173.5500	164.3240	0.051	1.65	0.40	—	8.38	—	2.50	8216
73	14	" "	60.3300	55.7450	0.074	2.39	0.31	—	4.13	—	2.28	2542
74,75	21	" " ✓	117.0900	111.0630	0.040	1.29	0.42	—	4.44	—	2.52	5598
76,77	24	" " ✓	117.0300	110.6515	0.063	2.04	0.38	—	6.97	—	2.24	4887
16 cars		AS+R 5.62% H_2O	935.7000	883.1275	0.071	2.30	—	—	62.76	—	2.50	44,119
1-68A	Apr 12 (Sampling Date)	P.D.	57.99	56.134	0.06	1.93	0.43	—	3.37	—	2.33	2616
2-69A, 3-70A	13	"	101.89	97.122	0.04	1.20	0.57	0.40	3.89	38.85	2.75	5342
4-71A, 5-72A	17	"	112.25	109.365	0.06	1.93	0.53	0.37	6.56	40.47	2.33	5096
6-73A, 7-74A	21	"	115.99	112.441	0.08	2.57	0.47	—	9.00	—	2.30	5172
8-75A, 9-76A	26	"	115.53	112.780	0.05	1.61	0.45	—	5.64	—	2.50	5639
10-77A	28	"	57.77	54.603	0.06	1.93	0.42	—	3.28	—	2.51	2741
7 (11)	May 2	"	51.57	50.054	0.06	1.93	0.49	—	3.00	—	2.46	2463
8 (12,13)	3	"	110.41	106.490	0.04	1.20	0.40	—	4.26	—	1.97	4196
9 (14,15)	5	"	118.44	113.513	0.04	1.20	0.42	—	4.54	—	1.87	4245
15 cars		P.D. 3.42% H_2O	841.24	812.502	0.054	1.62	0.098	0.07	43.54	79.32	2.31	37,510
31	Total For April	Total	1776.94	1695.6295	0.063	1.95	0.05	0.04	106.30	79.32	2.40	81,629
	May Shipments											
10 (16)	May 9, 1944	P.D.	58.50	56.628	0.04	1.20	0.47	—	2.27	—	1.90	2152
11 (17)	12	"	60.19	59.197	0.04	1.20	0.41	—	2.37	—	1.91	2261
12 (18,19)	13	"	119.91	116.804	0.04	1.20	0.46	—	4.67	—	1.90	4439
13 (20)	17	"	64.42	62.681	0.05	1.61	0.44	—	3.13	—	2.61	3272
14 (21)	19	"	64.12	60.927	0.04	1.20	0.41	—	2.44	—	2.01	2449
15 (22,23)	20	"	126.98	123.501	0.05	1.61	0.38	—	6.18	—	1.56	3853
16 (24)	25	"	64.38	62.68	0.04	1.20	0.48	—	2.51	—	1.73	2169
25,26	29	"	126.07	122.439	0.03	0.84	0.30	—	3.67	—	1.63	3992
27	June 2	"	64.02	63.021	0.02	—	0.45	—	—	—	1.68	2118
28,29	6		128.20	122.726	0.03	0.84	0.27	—	3.68	—	1.29	3166
14 cars	Total For May	P.D. 2.99% H_2O	876.79	850.604	0.036	1.09	0.41	—	30.92	—	1.75	29,871
30	June 15	PD	51.91	51.240	0.03	0.84	0.36		1.54	—	1.29	1322
31 N	July 7	PD	43.57	41.853	0.09	2.89	0.41	—	3.77	—	4.32	3616
2 cars	Total June	2.5% H_2O	95.48	93.093	0.057	1.71	0.38	—	5.31	—	2.65	4938
32 N	July 18		49.74	47.367	0.28	8.99	0.41	—	13.26	—	3.49	3306
33	July 18		64.46	61.991	0.07	2.25	0.47	—	4.34	—	1.96	2430
34	24		50.08	48.207	0.13	4.18	0.46	—	6.27	—	2.59	2497
35	26		57.16	55.611	0.13	4.18	0.42	—	7.23	—	2.24	2491
36 N, 37	Aug 1		120.76	116.135	0.09	2.89	0.30	—	10.45	—	2.53	5876
6 cars	Total July	3.79% H_2O	342.20	329.311	0.126	4.05	0.41	—	41.55	—	2.52	16,600
53 cars	Total for Apr, May, June, July	3.97	3091.41	2968.637					184.08			133,038

Car No.	Smelter Net Pay for Cu per ton	Total Smelter Pay per ton for metals	Smelting Charge per Ton	Trans Tax per car on smelting	RR Frt per Ton	Misc Charges per car	Royalty per Ton	Total smelter charges per car	Total Freight per Car	Total royalty per car	Total hauling per car $1/ton
62,63,	3.75	5.37	2.12	1.09	1.85	1.23		228.98	214.29	0.87	115.83
64,65,66	3.73	6.15	1.75	1.64	1.85	3.54		287.92	320.73	20.98	173.37
67,68,69	3.82	7.86	1.94	1.69	1.85	3.54		327.49	330.22	47.01	178.50
70,71,72	3.61	5.26	1.84	1.64	1.85	4.56		302.36	321.07	4.63	173.55
73	3.23	5.62	1.75	.56	1.85	—		97.55	111.61	3.81	60.33
74,75	3.65	4.94	1.94	1.11	1.85	7.01		215.46	216.62	—	117.09
76,77	3.16	5.20	1.75	1.11	1.85	2.01		193.64	216.51	3.51	117.03
16 cars	3.61	5.91	1.87	8.84	1.85	21.89	0.08	1653.40	1731.05	80.81	935.70
1-68A	3.39	5.32	2.63	—	1.40	—		147.63	81.19	0.96	56.13
2-69A, 3-70A	4.17	5.77	2.79	—	1.40	—		270.97	142.64	4.25	97.12
4-71A, 5-72A	3.39	5.69	2.79	—	1.40	—		305.13	159.15	4.27	109.37
6-73A, 7-74A	3.34	5.91	2.75	—	1.40	—		309.21	162.38	7.23	112.44
8-75A, 9-76A	3.71	5.32	2.75	—	1.40	—		310.15	161.74	0.71	112.78
10-77A	3.73	5.66	2.75	—	1.40	—		150.16	80.04	2.02	54.60
7 (11)	3.64	5.57	2.63	—	1.40	—		131.64	72.20	1.97	50.05
8 (12,13)	2.73	3.93	2.53	—	1.40	—		269.42	154.57	—	106.49
9 (14,15)	2.54	3.74	2.46	—	1.40	—		279.24	165.82	—	113.51
15 cars	3.36	4.98	2.68	—	1.40	—	0.03	2173.55	1177.73	21.51	812.49
31 (Total For April)	3.48	5.43	2.26	8.84	1.64	21.89	0.06	3826.95	2908.78	102.32	1748.19
10 (16)	2.60	3.80	2.45	—	1.40	—		138.74	81.90	—	58.50
11 (17)	2.62	3.82	2.51	—	1.40	—		148.58	84.27	—	60.19
12 (18,19)	2.60	3.80	2.50	—	1.40	—		292.01	167.87	—	119.91
13 (20)	3.91	5.52	2.48	—	1.40	—		155.45	90.19	3.13	64.42
14 (21)	2.80	4.00	2.59	—	1.40	—		157.80	89.77	—	64.12
15 (22,23)	1.97	3.58	2.34	—	1.40	—		288.99	177.77	—	126.98
16 (24)	2.28	3.48	2.39	—	1.40	—		149.81	90.13	—	64.38
25,26	2.10	2.94	2.51	—	1.40	—		307.32	176.50	—	126.07
27	2.19	2.19	2.42	—	1.30	—		152.51	83.23	—	64.02
28,29	1.47	2.31	2.49	—	1.30	—		305.59	166.66	—	128.20
14 cars	2.33	3.42	2.47	—	1.38	—	0.003	2096.80	1208.29	3.13	876.79
30	1.47	2.31	2.70	—	1.30	15.40		138.35	67.48	—	51.91
31 N	7.09	9.98	3.00	—	1.40	—		125.56	61.00	18.44	43.57
2 cars	4.30	5.01	2.84		1.38	—	0.20	263.91	128.48	18.44	95.48
32 N	5.55	14.54	3.45	—	1.80	—	0.81	163.42	90.00	38.14	49.74
33	2.71	4.96	2.72	—	1.30	—	—	168.62	83.80	—	64.46
34	3.88	8.06	2.78	—	1.30	—	—	134.02	65.10	13.59	50.08
35	3.23	7.41	2.50	—	1.30	—	—	139.03	74.31	17.76	57.16
36 N, 37	3.77	6.66	2.57	—	1.30	—	—	298.47	156.99	18.89	120.76
6 cars	3.75	7.80	2.74	8.84	1.43	—	0.27	903.56	470.20	88.38	342.20
53 cars								7091.21			3062.66

Car No.	Trans tax freight total 3%	Trans tax hauling total 3%	Net value per ton at Smelter	Total Smelter net pay per car. Bal Due shipper	Total marketing charges per car	Smelter Gross per car	Premium Pay per Car 97% x 15¢ = 14.55	Total pay to shipper per car	Smelter Net pay per Ton	Prem pay per Ton	Total net pay per ton
62,63,	6.42	3.47	3.24	27.22		349.96					
64,65,66	9.62	5.20	4.39	188.82		722.26					
67,68,69	9.90	5.36	5.91	423.13		997.66					
70,71,72	9.64	5.21	3.41	41.68		560.34					
73	3.35	1.81	3.86	34.27		215.18					
74,75	6.50	3.51	2.99	55	5.11/ton	332.08					
76,77	6.50	3.51	3.44	70.20		380.64					
16 cars	51.93	28.07	—	785.77	4511.69	3558.12	6419.32	7205.09	0.89	7.27	8.16
1-68A	2.44	1.68	2.69	8.60		151.00					
2-69A, 3-70A	4.28	2.91	2.98	38.22		289.42					
4-71A, 5-72A	4.71	3.28	2.90	38.38		317.16					
6-73A, 7-74A	4.87	3.37	3.16	65.02		355.31					
8-75A, 9-76A	4.85	3.38	2.57	6.38		289.84					
10-77A	2.40	1.64	2.91	18.19		158.89					
7 (11)	2.17	1.50	2.94	19.27		147.16					
8 (12,13)	4.63	3.20	1.40	119.80	5.22/ton	149.09					
9 (14,15)	4.98	3.41	1.28	142.42		145.30					
15 cars	35.33	24.37	—	68.16	4244.98	2003.17	5457.71	5389.55	0.09	6.72	6.63
31 (Total For April)	87.26	52.44	—	717.61	8756.67	5561.29	$11,877.03	$12,594.64	0.42	7.00	7.42
10 (16)	2.45	1.76	1.35	68.17	5.16/ton	76.45	313.12	244.95			4.33
11 (17)	2.53	1.81	1.31	71.25		77.55	328.98	257.73			4.35
12 (18,19)	5.04	3.60	1.30	144.57		151.85	645.87	501.30			4.29
13 (20)	2.71	1.93	3.04	28.17		190.55	476.08	504.25			8.05
14 (21)	2.69	1.92	1.41	72.59		85.91	356.33	283.74			4.65
15 (22,23)	5.33	3.81	1.24	160.75		153.14	560.61	399.86			3.23
16 (24)	2.70	1.93	1.09	90.82		68.32	315.59	224.77			3.58
25,26	5.30	3.78	0.43	259.00		52.65	580.84	321.84			2.63
27	2.50	1.92	0.23	166.16	4.99/ton	14.49	308.17	142.01			2.25
28,29	5.00	3.85	0.15	325.80		22.09	460.65	134.85			1.10
14 cars	36.25	26.31	—	1330.94	4247.57	819.84	4346.24	3615.30	1.57	5.11	3.54
30	2.49	1.56	0.39	105.35	5.68/ton 277.19	19.98	192.35	87.00	2.06	3.75	1.69
31 N	1.83	1.31	6.98	210.86	251.71	292.13	526.20	737.06	2.27	12.57	14.84
2 cars	4.32	2.87	—	105.51	528.90	272.15	718.55	824.06	1.13	7.72	8.85
32 N	2.70	1.49	11.09	343.23	345.49	525.30	480.90	824.13	7.25	10.15	17.40
33	2.51	1.93	2.24	13.84	321.32	138.86	353.56	339.72	0.22	5.70	5.48
34	1.95	1.50	5.28	122.21	266.24	254.53	363.31	485.62	2.53	7.54	10.07
35	2.23	1.71	4.91	123.88	292.20	273.05	362.44	486.32	2.12	6.52	8.74
36 N, 37	4.71	3.62	4.09	170.02	5.55/ton 603.44	474.99	855.00	1025.02	1.46	7.36	8.82
6 cars	14.10	10.25	—	745.60	1828.69	1666.73	2415.21	3160.81	2.26	7.33	9.59
53 cars					15,361.83			19,594.81			

Aug Cars 38- 49 incl

35.1 / 10 / 25.1   28 / 3)84 / 2   326   258   336   299   850)3.13   300)88.0   259 / 518

Production Report Bullard Gold Mines Inc
To A.S&R Smelter, Hayden, Ariz

826/14

1960-01-0038-02

	Marketing Data Lots 1 to 61 inclusive	Nov 1943 Total	Nov 1943 Per ton	Dec 1943 Total	Dec 1943 Per Ton	Jan 1944 Total	Jan 1944 Per Ton	Feb 1944 Total	Feb 1944 Per ton	March 1944 Total	March 1944 Per Ton	Total 5 mo.	Total Per Ton		
1	Wet tons ore shipped	262.41 tons	10.1 Average per day	644.8500 tons	23.9 ton/day	616.4700 tons	22.8 ton/day	378.8040 tons	15.1 ton/day	1502.5140 tons	55.7 ton/day	3405.0400 tons	25.8 ton/day		1
2	Dry short Tons ore shipped	255.21 "	9.8 " "	609.1105 "	22.6 " "	577.6515 "	21.4 " "	362.0900 "	14.5 " "	1438.8815 "	53.3 " "	3242.7440 "	24.6 " "	✓	2
3	Moisture content	7.20 "	2.75 %	35.7395 "	5.54 %	39.8185 "	6.46 %	16.7095 "	4.41 %	63.6285 "	4.24 %	162.0960 "	4.76 %		3
4	Gold content in ounces	40.002 oz	0.157 oz	62.7280 oz	0.103 oz	45.70 oz	0.080 oz	33.93 oz	0.094 oz	66.22 oz	0.046 oz	248.79 oz	0.077 oz	✓	4
5	Smelter Net Payment for gold	$1292.79	$5.07	$2027.58	$3.33	$1483.41	$2.59	$1096.56	$3.04	$2140.12	$1.49	$8040.46	$2.48	✓	5
6	Average copper content (lbs + %)	10,499 lbs	2.05 %	23,702 lbs	1.94 %	24,413 lbs	2.11 %	14,976 lbs	2.07 %	54,778 lbs	1.98 %	128,318 lbs	1.98 %	✓	6
7	Smelter net payment for copper	$721.91	$2.83	$1730.02	$2.84	$1696.58	$2.94	$1039.52	$2.87	$3693.63	$2.57	$8881.66	$2.73	✓	7
8	Total smelter payment for metals (5+7)	$2014.70	$7.90	$3757.60	$6.17	$3179.99	$5.53	$2136.08	$5.91	$5833.75	$4.06	$16,922.12	$5.21	✓	8
9	Smelting charges per dry ton	$483.68	$1.90	$1065.97	$1.75	$1010.89	$1.75	$633.66	$1.75	$2532.43	$1.75	$5726.63	$1.77	✓	9
10	Railroad freight on ore	$513.70	$2.01	$1192.98	$1.96	$1140.41	$1.98	$700.79	$1.93	$2782.79	$1.94	$6330.67	$1.95	✓	10
11	Trucking Charges on ore	$262.41	$1.00	$644.85	$1.06	$616.47	$1.07	$378.80	$1.05	$1502.51	$1.05	$3405.04	$1.05	✓	11
12	Royalty payments (10% net smelter)	$75.76	$0.30	$98.69	$0.16	$47.89	$0.09	$32.99	$0.10	$2.18	$0.002	257.51	$0.07	✓	12
13	Misc. Charges (umpire, telegrams, etc)	0.47	0.00	$10.07	0.01	$10.69	0.03	$770	$0.02	$24.44	$0.01	$53.37	$0.02	✓	13
14	Total Marketing charges except taxes (7+8+9+10+11+12+13)	$1336.02	$5.21	$3012.56	4.94	$2826.35	4.89	$1753.94	$4.85	$6844.35	$4.75	$15,773.22	$4.86	✓	14
15	Taxes on Smelting	$2.07	—	$3.86	—	$5.80	—	$3.62	—	$12.69	—	$28.04	$0.009	✓	15
16	Taxes on Railroad freight	$15.41	—	$35.80	—	$34.20	—	$21.03	—	$83.60	—	$190.04	$0.06	✓	16
17	Taxes on Trucking	$7.85	—	$19.34	—	$18.49	—	$11.36	—	$45.09	—	$102.16	$0.03	✓	17
18	Total taxes (15+16+17)	$25.36	$0.099	$59.00	$0.097	$58.49	$0.101	$36.01	$0.099	$141.38	$0.098	$320.24	$0.099	✓	18
19	Total marketing charges (14+18)	$1361.38	$5.31	$3071.56	$5.04	$2884.84	$4.99	$1789.95	$4.95	$6985.73	$4.85	$16,093.46	$4.96	✓	19
20	Smelter net payment to shipper (8-19)	$653.32	$2.55	$686.04	$1.13	$295.15	$0.54	$346.13	$0.96	$1156.48	$0.79	$828.66	$0.25	✓	20
21	Premium Payment on copper (5¢+7.7/16)	$1287.21	$5.05	$2919.85	$4.78	$3007.44	$5.21	$1844.89	$5.10	$7970.20	$5.54	$17,029.59	$5.25	✓	21
22	Total payment for ore (dry tons) (20+21)	$1940.53	$7.60	$3605.89	$5.91	$3302.59	$5.75	$2191.02	$6.05	$8818.22	$4.75	$17,858.25	$5.50	✓	22
23															23

"Bullard Gold Mines Inc

B85/14
1960-01-0038-01

		Oct, 1943 Totals	Oct 1943 Per ton	Nov 1943 Totals	Nov 1943 Per Ton	Dec 1943 Totals	Dec 1943 Per Ton	1943 Total (3 months)	1943 Per ton (3 months)	Geo. French Jan 1944 Total	Jan Per Ton	Joe Klein Feb Total	Feb Per ton	March
1	Total Tonnage ore Shipped (dry)	—	—	262.41	—	644.95	—	907.36		577.65 15	—	362.07 05	—	
2	Gross value of ore shipped (at mine bin)			$1940.53	$7.80	$3359.93	$5.48	5300.46	6.13	3280.27	5.68	2188.35	5.77	
3	Payroll	1020.90		1622.16		2393.54		5036.60	5.55	1870.46	3.24	2386.06	6.59	
4	1 Supervision	390.00		450.00	1.72	450.00	0.70	1290.00	1.42	450.00	.78	325.00	1.04	
5	2 Mine Surface general	—		136.28		196.16		332.44		258.00		200.00		
6	3 Mine development	153.14		581.81		—		734.95		—	—	—	—	
7	4 Construction, surface	302.42		162.40		193.54		658.36		100.00		718.03		
8	5 Road	102.09		—		—		102.09		—	—	—	—	
9	6 office	73.25		—		—		73.25		36.00		30.00		
10	7 Mining (stoping)	—		391.67		1553.94		1945.61		1062.46		1093.03		
11	8 Total stoping cost (1,2,5,7)	—		977.95	3.73	2200.10	3.31	3568.05	$3.93	1846.46	3.13	1698.03		
12	9 Total labor capital investment	1020.90		644.21	2.46	1934.44	2.9	1858.55	2.05	100.00	.17	718.03		
13	Tons per day worked	0		10		23		17		22		14.5		
14	Tons per shift	0		10		23		17		22		14.5		
15	Tons per man shift			1.5		2.4		2.0		2.8		1.3		
16	Supplies Stoping $0.05/stick cost													
17	Powder (sticks/ton and cost/ton) 1931/16							357.78	69 sticks $0.41	2649 1589.94	4.6/ton 0.27	$48.00 1000#		
18	Caps $0.02/cap cost							2.40	0.03	5557 11.14	0.02	11.00 550		
19	Fuse $0.007/ft cost							59.58	0.07	3694 25.86		30.10 4300'		
20	Carbide $0.0596/lb							5.25	0.006	5.42		5.42		
21	Bits (sharpening cost included)							12.97	0.014	65.64		75.06		
22	Steel (repairing cost)							7.25	0.008	—		42.50		
23	Gas + oil (compressor) 1934/30 1934/31			357.25		33.87		391.12	0.43	74.28		77.90		
24	Timber							220.38	0.24	—		30.00		
25	Misc									28.83		19.45		
26	Total Stoping Supplies							1080.33	1.20	370.11		439.43		
27	Insurance (Industrial) $1.75 underground $1.75 surface							155.00	0.17	155.70		198.50		
28	Automobile expense (Total							46.50	0.05	61.75				
29	Insurance $3.35/mo. (4/10-23)	3.35		3.35		3.35		10.05		3.35		8.35		
30	Gas + Oil									53.95				
31	Repairs			45.45				45.45		4.45				
32	Equipment Purchases	410.95		791.56		569.10		1546.61		527.02				
33	Road repair (Supplies + grading)	176.00		34.42		—		210.42		—		—		
34	Office expense	30.00		30.00		30.00		90.00	0.10	33.53				
35	Assaying			22.50		75.00		97.50	0.11	138.50				
36	Interest on loan	48.76		48.76		48.78		146.30	0.16	48.78		48.78		
37	Bank fees $112.50 ($12.50/mo)	12.50		12.50		12.50		37.50	0.04	12.50		12.50		
38	Misc Expense							156.50	0.15	71.19				
39	Total Expense (16 to 38 incl)							10 926.83		1480.83				
40							Total above	12 538.44						
41	Total Cost per ton (stoping) 11+26								5.12	2176.57		2137.46		
42	" Misc costs/ton (27,28,38,35,36,37,38)								.78	269.85				
	Total costs/ton 27,28,34,35,36,37,38,11,26								5.91	$875.09	8.44			
	Net profit or loss / ton								0.22		2.76			
	Total Net Profit								$199.60	1574.82				