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03/04/96

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SPRING CREEK

ALTERNATE NAMES:

GILA COUNTY MILS NUMBER: 447

LOCATION: TOWNSHIP 9 N RANGE 12 E SECTION 36 QUARTER SW
LATITUDE: N 34DEG 04MIN 37SEC LONGITUDE: W 111DEG 04MIN 33SEC
TOPO MAP NAME: BUZZARD ROOST MESA - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
LEAD
GOLD
SILVER

BIBLIOGRAPHY:
USGS BUZZARD ROOST MESA QUAD
ADMMR SPRING CREEK MINE FILE
RAND L H & E B STURGIS MINES HANDBOOK 1931
P 1660 SEE BALD EAGLE MINING CO.

SPRING CREEK MINE GILA COUNTY

A report was received that Nicky Brite Mining Company is working at the Spring Creek Mine, Gila County. NJN WR 6/26/81

KAP WR 8/14/81: Principals in Silver Bullet Minin g Company reported the firm has dropped its lease on the Spring Creek Mine, Pleasant Valley District, Gila County. They have a 1000 pound lot of concentrates from pilot testing. It runs 2 ounces of gold and 21 ounces silver per ton.

NJN WR 5/3/85: Jim Beyer (c) visited and reported that he has visited the Spring Creek (f) mine Gila County and is considering mining one of the underground ore blocks there. There have been no changes there since Ken Phillips last visit nor has any production occured.

SPRING CREEK MINE

GILA CO.
Spring Creek

KP/WR - 10/20/78 - Auri Unger, P.O. Box 220, Route 1, Heber, Az. 85928, phone: 535-4712, message phone 535-4851 (Mr. Kantzler), reports he is the owner of the Spring Creek Mine, Spring Creek District, Gila County. He has cleaned out the mine, retimbered where necessary and wants some assistance in how to sample. He has collected some samples, but since he found no visible gold, no assays were run. Suggested he have the samples run for Au, Ag, WO_3 and Mo. He said the old-timers in Young tell him the mine was opeated for gold in the 1930's and tungsten in the 1950's. A photo of the cleaned out portal was supplied. 1/22/79 a.p.

KAP WR 8/22/80: A Jim Russell is reported to be producing gold-silver ores from an unknown mine in the Young area, Spring Creek District, Gila County. There is a possibility this may be the Spring Creek Mine.

RRB WR 1/23/81: Lee Behrens of the Silver Bullet Inc., Westminster, Colorado, and Young, Arizona, phone (303) 428-9200 in Colorado, Address: P.O. Box 321, Young, Arizona 85554 was in. They are optioning the Spring Creek Mine (now called Yankee Dollar) Sec. 36 etc. T9N, R12E (Buzzard Roost Quad) Gila County from Nicky Brite Co., which has an option from owners Lee Folks and Evart D. Bunger.

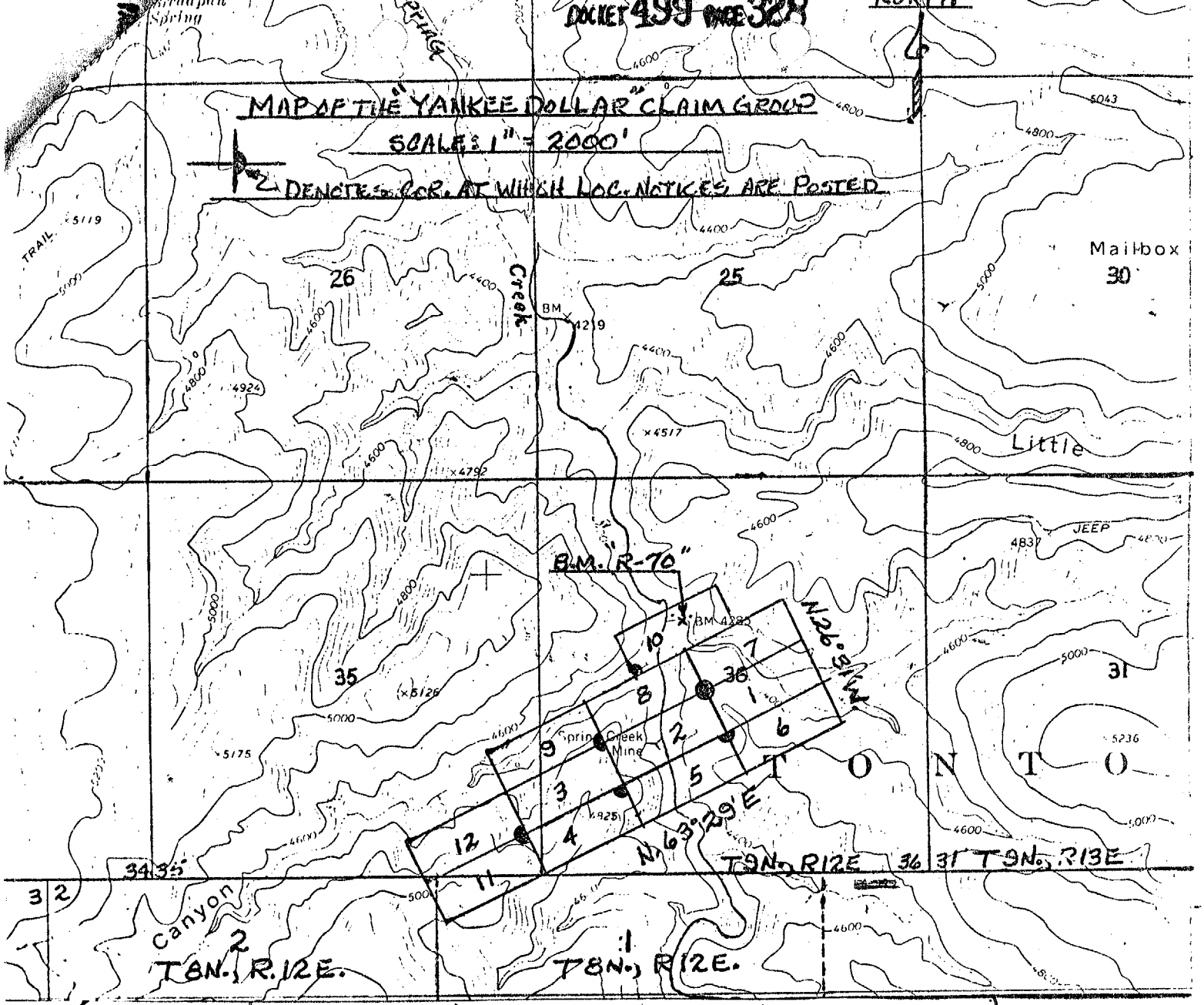
KAP WR 1/16/81: Fred Murphy, P.O. Box 205, Young, Arizona 85554, reported he is trying to get an operation together on the Spring Creek Mine, Spring Creek District, Gila County. His exact relationship was not disclosed (he may or may not be the owner or lessee).

KAP WR 1/23/81: In the company of H. Mason Coggin, Consulting Mining Engineer, Coe & Van Loo Consulting Engineers, Phoenix, a visit was made to the Spring Creek Mine, Spring Creek District, Gila County. A separate report will be written.

KAP WR 4/10/81: The Rubr-Tech Mill has recently run a test lot of ore from the Spring Creek Mine, Spring Creek District (Young), Gila County. The ore was produced from the mine by Nicky Bright Mining Company, which is also known as Silver Bullet Mining Company.

KAP WR 5/1/81 Principals in Nicky Bright Mines Inc., also known as Silver Bullet Mining, reported they have 200 tons of ore which they recently produced from the Spring Creek Mine, stockpiled on the property. The stockpile is supposed to run approximately .5 tr.oz/ton in gold and 10 tr.oz /ton in silver. A small load was hauled to the Tonto Mill for test processing. A small trial load was also milled at the Rubr-Tech Mill. Test milling at Rubr-Tech showed the ore to be of much lower grade and the ore concentrated very poorly.

DOCKET 499 PAGE 324



Lower Corral
Tank
Derrick
Rocks
T O N T O
Spring
Cabin
Fullen Cabin
Marsh Ra
Diamond Butte
Upper Corral
Cabin
Tank
Cabin
Cabin
Tank
N A T I O N A L
Houden Mtn
Flying W Ranch
Canyon
Breadpan
Mailbox Mesa
Little
Walnut
Cline Mesa
F O R E S T
Spring Creek Mtn
Breadpan Mtn
Canyon
North Fk
Spring
1/2 = 1 mile

Main Portal, Spring Creek Mine
Spring Creek District (Young), Gila County
Summer 1978

Southwestern Engineering Corporation

Southwestern Engineering Corporation
Hollingsworth Building
6[illegible] South Hill Street
LOS ANGELES, CALIFORNIA

117 LIBERTY STREET
NEW YORK, N. Y.

[illegible] MAYO BUILDING
TULSA, OKLAHOMA

SOUTHWESTERN ENGINEERING CORP.

METALLURGICAL TESTING DEPARTMENT.

MAY 25th, 1929.

Report of tests conducted on sample of ore received from L.E. Foster, [illegible] Sherlock Mining Company, Globe, Arizona.

SOUTHWESTERN ENGINEERING CORP.

[illegible] HOLLENBECK BLDG.

LOS ANGELES, CALIF.

TEST NO. [illegible].

7.07 Tons of Rougher Flotation Concentrate

Assaying		Containing	
Gold	1.36 oz.	11.93% of the	Gold
Silver	44.50 "	32.59% " "	Silver
Copper	2.87%	22.68% " "	Copper
Lead	24.45%	21.32% " "	Lead

Calculating the table concentrate, table middling and flotation concentrate together as a single concentrate, 100 tons of ore would produce

17.43 Tons of Combined Concentrate

Assaying		Containing	
Gold	4.06 oz.	87.77% of the	Gold
Silver	45.20 "	81.07% " "	Silver
Copper	2.07%	52.00% " "	Copper
Lead	39.32%	87.50% " "	Lead

Ratio of concentration for the combined concentrate would be 5.73 tons to 1.

TEST #3.

This test was made by floating a portion of the table tailing from test #1. Table tailing was reground to .05 plus 65 mesh and 84.8% minus 200 mesh. The following reagents were employed per ton of ore.

At Ball Mill - Sodium Sulphide 7.5 lbs.

In Flotation Machine - 1st Series:

Potassium Xanthate	.14 lbs.
Yarmor Pine Oil	.09 "

In Conditioner, Second Series:

Sodium Sulphide	2.4[illegible] lbs.
P.E. Oil	.1[illegible] "
Yarmor Pine Oil	.05 "

In Conditioner, Third Series:

Sodium Sulphide	2.43 "
P.E. Oil	.25 "
Yarmor Pine Oil	.05 "

Conditioning time for second and third series was 10 minutes for each. Pulp conditioned 15 minutes before first series.

Results of Test.

5.36 Tons of Sand Table Concentrate.

Assaying		Containing	
Gold	9.16 oz.	60.73%	of the Gold
Silver	47.65 "	27.48%	" " Silver
Copper	1.73%	10.82%	" " Copper
Lead	66.09%	47.13%	" " Lead

5.00 Tons of Table Middling.

Assaying		Containing	
Gold	2.40 oz.	14.84%	of the Gold
Silver	45.00 "	23.63%	" " Silver
Copper	3.39%	19.77%	" " Copper
Lead	33.39%	22.81%	" " Lead

9.04 Tons of Rougher Flotation Concentrate

Assaying		Containing	
Gold	1.56 oz.	17.43%	of the Gold
Silver	33.30 "	32.40%	" " Silver
Copper	3.37%	33.53%	" " Copper
Lead	16.04%	19.20%	" " Lead

Combined Results.

Calculating the table concentrate, table middling and rougher flotation concentrate as a combined product, 100 tons of ore would produce

19.40 Tons of Combined Concentrate

Assaying		Containing	
Gold	3.87 oz.	93.00%	of the Gold
Silver	40.00 "	85.52%	" " Silver
Copper	2.92%	66.14%	" " Copper
Lead	34.34%	80.[illegible]	" " Lead

Ratio of concentration for the combined concentrate would be 5.15 to 1.

TEST #4.

Difference between this test and #3 was that the flotation tailing was tabled to remove free gold and the flotation treatment was not as long. The test was made on a representative portion of the table tailing from test #1. [illegible] #1, table tailing was reground to .4[illegible] plus 65 mesh and 84.6% minus 200 mesh. The following flotation reagents were employed per ton of ore:

SOUTHWESTERN ENGINEERING CORP.

METALLURGICAL TESTING DEPARTMENT.

MAY 25th, 1929.

Report of tests conducted on sample of ore received from L.E. Foster, Springcreek Mining Co., Globe, Arizona.

SAMPLE NO. 2218.

Sample received was oxidized ore containing free gold, oxidized silver, copper and lead minerals. Copper was present as carbonate and silicate and the lead as carbonate. Sample was crushed, carefully mixed, sampled and assayed as follows:

Gold	1.02 oz. per ton
Silver	10.90 " " "
Copper	.93%
Lead	8.75%
Zinc	Trace

TEST #1.

A charge of 5,000 grams of ore was crushed dry in a disc pulverizer to pass 28 mesh and tabled producing a finished table concentrate, a middling and a tailing. The middling was retabled, without regrind, and the resulting concentrate added to the first concentrate. Tailing from the retabling was set aside as a table middling product.

RESULTS OF TABLE TEST.

From every 100 tons of ore there would be recovered

5.36 Tons of Table Concentrate

Assaying		Containing	
Gold	9.16 oz.	56.36%	of the Gold
Silver	47.65 "	23.22%	" " Silver
Copper	1.73%	10.[illegible]	" " Copper
Lead	65.09%	48.34%	" " Lead

5.00 Tons of Table Middling

Assaying		Containing	
Gold	2.40 oz.	13.92%	of the Gold
Silver	43.50 "	21.[illegible]%	" " Silver
Copper	3.39%	18.36%	" " Copper
Lead	33.35%	[illegible].95%	" " Lead

Calculating the table concentrate and middling together as a single product, there would be recovered from 100 tons

10.36 Tons Combined Table Concentrate and Middling

Assaying		Containing	
Gold	5.87 oz.	70.88%	of the Gold
Silver	45.84 "	46.89%	" " Silver
Copper	2.53%	29.19%	" " Copper
Lead	50.51%	62.29%	" " Lead

Ratio of concentration for the combined concentrate and middling would be 9.65 tons to 1.

TEST #2.

This test was made on a representative portion of the table tailing from test #1. The table tailing was first reground to 1.2% + 65 mesh, 94.8% - 200 mesh, and then amalgamated in a revolving bottle with mercury. The amalgamation tailing was floated with the following reagents per ton of ore

P.E. Oil	.49 lb.
Sodium Sulphide	6.36 "
Yarmor Pine Oil	.09 "

Pulp was conditioned 15 minutes with the P.E. Oil and sodium sulphide by agitating in the K & K flotation machine.

RESULTS OF TEST.

5.36 Tons Sand Table Concentrate
(Resulting from Tabling at 28 mesh.)

Assaying		Containing	
Gold	9.16 oz.	60.9[illegible]	of the Gold
Silver	47.35 "	26.43%	" " Silver
Copper	1.73%	10.37%	" " Copper
Lead	36.09%	44.71%	" " Lead

5.00 Tons Table Middling
(Resulting from Tabling at 28 mesh.)

Assaying		Containing	
Gold	2.40 oz.	14.90%	of the Gold
Silver	43.90 "	21.73%	" " Silver
Copper	3.39%	18.9[illegible]%	" " Copper
Lead	33.36%	21.97%	" " Lead

Amalgamation Extraction

4.04% of the Gold
.30% " " Silver

At Ball Mill - Sodium Sulphide	6.4 lbs.
In Conditioner - P.E. Oil	.5 "
In Rougher - - Yarmor Pine Oil	.12 "

After adding the sodium sulphide, the pulp was conditioned 15 minutes by agitating in a K & K Flotation Machine.

Results of Test.

5.36 Tons of Sand Table Concentrate

Assaying		Containing	
Gold	9.16 oz.	55.0[illegible]% of the	Gold
Silver	47.65 "	24.4[illegible]% " "	Silver
Copper	1.75%	10.58% " "	Copper
Lead	6[illegible].09%	42.57% " "	Lead

5.00 Tons of Table Middling

Assaying		Containing	
Gold	2.40 oz.	13.45% of the	Gold
Silver	43.90 "	20.90% " "	Silver
Copper	3.39%	18.53% " "	Copper
Lead	33.39%	20.06% " "	Lead

3.28 Tons of Rougher Flotation Concentrate

Assaying		Containing	
Gold	3.16 oz.	22.25% of the	Gold
Silver	38.20 "	34.94% " "	Silver
Copper	3.54%	26.08% " "	Copper
Lead	34.71%	26.20% " "	Lead

.45 Ton of Slime Table Concentrate
(Tabled from Flotation Tailing.)

Assaying		Containing	
Gold	3.60 oz.	1.8[illegible]% of the	Gold
Silver	15.20 "	.6[illegible]% " "	Silver
Copper	2.55%	1.31% " "	Copper
Lead	1[illegible].44%.	.61% " "	Lead

COMBINED RESULTS.

Calculating all concentrates and the table middling as a combined product, there would be recovered from every 100 tons of similar ore

17.09 Tons of Combined Concentrate

Assaying		Containing	
Gold	4.9[illegible] oz.	92.3[illegible]% of the	Gold
Silver	40.87 "	81.00% " "	Silver
Copper	2.90%	53.50% " "	Copper
Lead	43.55%	[illegible].4[illegible]% " "	Lead

Ratio of concentration for the combined concentrate was 5.86 to 1.

TABLE #5.

Object of this test was to produce higher grade combined concentrate than in preceding tests. A representative portion of the ore consisting of 10,000 grams was crushed dry in a disk pulverizer to pass 20 mesh and tabled. A finished concentrate and a middling were produced with one pass over the table. The middling, consisting of 34.27% by weight of the ore tabled, was reground in a ball mill to 35 mesh and then retabled producing a concentrate. The entire sand table tailing was reground and combined with the slimes. A sizing test made on the final table tailing showed 1.1% plus 65 mesh and 87.4% minus 200 mesh. The table tailing was floated and the flotation tailing tabled to remove coarse free gold.

Following flotation reagents were used per ton of ore:

At Ball Mill -	Sodium Sulphide	7.1 lbs.
	P.E. Oil	.325 "
In Rougher - -	Yarmor Pine Oil	.10 lbs.

Pulp was conditioned 15 minutes by agitating in the K & K Flotation Machine.

Results of Test.

From every 100 tons of similar ore there would be recovered

(Recovered at -20 Mesh)

7.23 Tons of Sand Table Concentrate.

Assaying		Containing	
Gold	6.[illegible] oz.	61.37%	of the Gold
Silver	47.40 "	36.84%	" " Silver
Copper	2.02%	10.30%	" " Copper
Lead	60.02%	58.14%	" " Lead

2.30 Tons Table Concentrate
(Recovered from reground table middling.)

Assaying		Containing	
Gold	4.82 oz.	13.72%	of the Gold
Silver	42.20 "	10.42%	" " Silver
Copper	3.00 %	8.55%	" " Copper
Lead	35.01%	10.16%	" " Lead

5.18 Tons of Flotation Concentrate

Assaying		Containing	
Gold	2.78 oz.	17.08%	of the Gold
Silver	59.20 "	32.93%	" " Silver
Copper	4.00%	[illegible]	" " Copper
Lead	30.80%	[illegible]	" " Lead

2.45 Tons of Table Concentrate
(Recovered from Flotation Tailing.)

Assaying		Containing	
Gold	2.78 oz.	1.97%	of the Gold
Silver	7.70 "	2.02%	" " Silver
Copper	1.46%	4.42%	" " Copper
Lead	4.60%	1.42%	" " Lead

COMBINED RESULTS.

Calculating all concentrates, except the table concentrate from the flotation tailing, as a single product, 100 tons of similar ore would produce

14.71 Tons of Combined Concentrate

Assaying		Containing	
Gold	5.11 oz.	92.91%	of the Gold
Silver	50.77 "	80.19%	" " Silver
Copper	2.90%	52.54%	" " Copper
Lead	47.62%	88.44%	" " Lead

Ratio of concentration for the combined concentrate would be 6.80 tons to 1.

Taking a smaller amount by weight of the table concentrate from the flotation tailing would result in a product sufficiently high in assay to include in the combined concentrate. This is indicated in test #4.

CONCLUSIONS.

Results of test #3, with a ratio concentration for the combined concentrate of 5.15 into 1, show that 93.00% of the Gold, 85.52% of the silver, 66.14% of the copper and 88.63% of the lead was recovered. The concentrate assayed gold 5.37 oz., silver 40.00 oz., copper 2.92% and lead 34.34%.

In test #5 with a higher ratio of concentration (6.80 into 1) the recovery was 92.91% of the gold, 80.19% of the silver, 52.54% of the copper and 88.44% of the lead. The concentrate assayed 5.11 oz., gold 50.77 oz. silver, 2.90% copper and 47.62% lead.

Results of test #4, in which the ratio of concentration for the combined concentrate was 5.36 to 1, showed slightly higher recovery than in test #5.

It is indicated from the results of the test here-in reported that ore of similar character and grade to the sample will lend itself to a combined gravity - flotation treatment as in test #5.

We recommend grinding before and after flotation. Grinding before flotation should begin at a fairly coarse mesh, probably 10 or 20 mesh. To obtain the maximum recovery by

tabling, the primary fines should be removed from the ore and join the table feed before the lead mineral becomes slimed by grinding.

Tests conducted indicated that after grinding, a 15 minute conditioning period was sufficient time in which to sulphidize the lead mineral.

SOUTHWESTERN ENGINEERING CORP.

By Robert Lord.

FT
8-29-29.

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AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Carolan & McAuliffe — EL PASO, TEXAS 11-9-26

SHIPPING POINT Globe, Ariz. — SMELTER LOT 3708

CLASSIFICATION Ore — SHIPPER'S LOT

CAR	INITIAL	GROSS	SACKS No.	SACKS Weight	NET WEIGHT	Moisture %	DRY WEIGHT
1343	GH	2560	31		2540	1	2515
Per lead deduction				1.5			
Ded acc copper paid for				1.52			
				3.02			

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	10-25-26	
SILVER	.52875	CTS. PER OZ.
LEAD	8.25	PER 100 LBS.
E. & M. J. COPPER	13.917	CTS. PER LB.
LONDON LEAD PER 2240 LBS.	£ s.	d
EXCHANGE N. Y.		
EXCHANGE MEX. CY.		

PAYMENTS FOR METALS

										VALUE
								RATE	AMOUNT PER TON	AMOUNT TOTAL
	.55					.55	oz.	20.00	11.00	
	54.0	oz.			95	51.3	oz.	.52875	27.12	
	87.3	%	3.02	24.23	99	47.9	lbs.	.3065	29.94	
	4.55	%	.75	3.30	7[illegible]	[illegible]	lbs.	.09917	8.30	
TOTAL PAYMENTS FOR METALS										76.

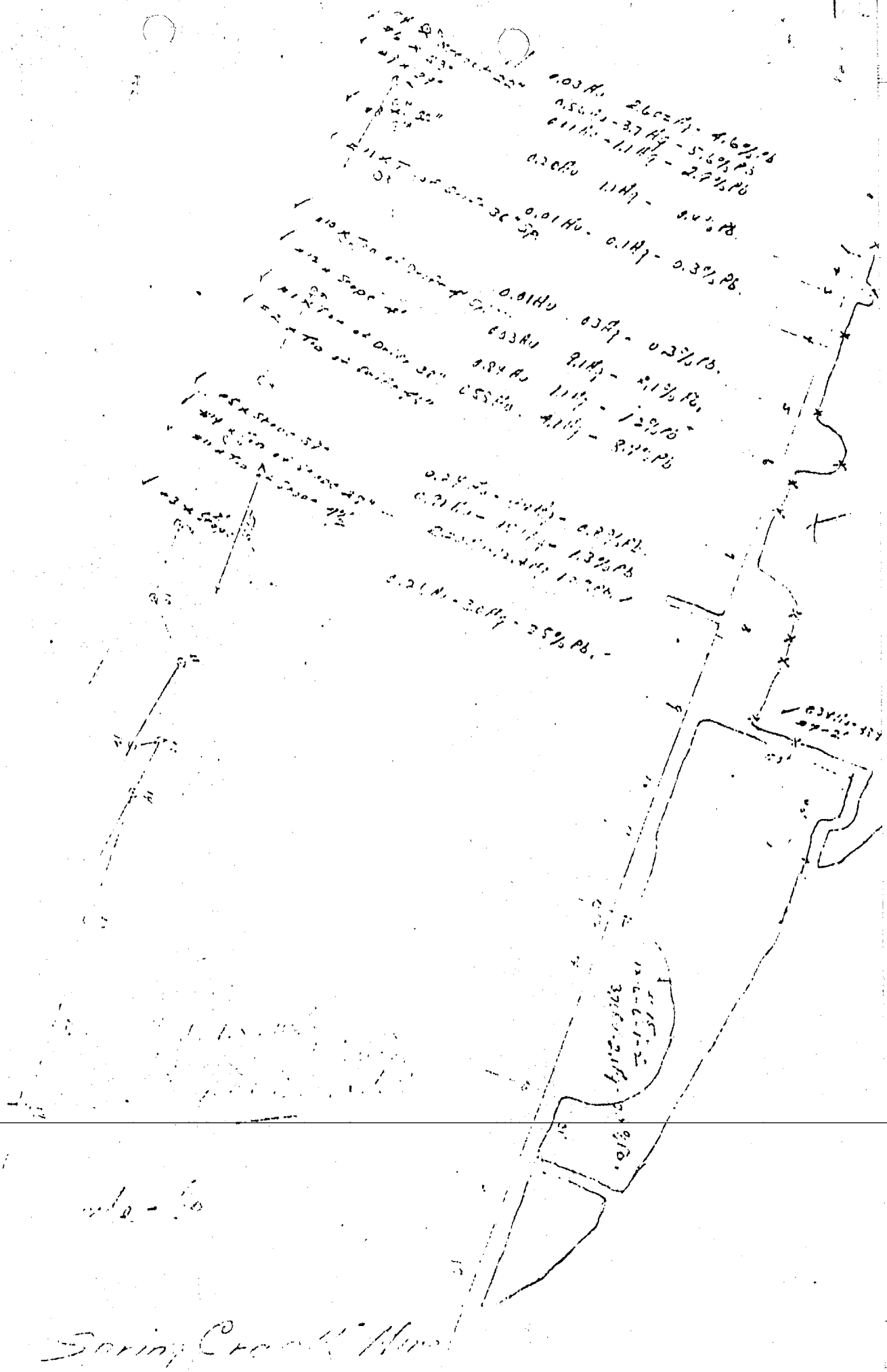
DEDUCTIONS

	DEBITS	CREDITS
SMELTING CHARGE F. O. B. EL PASO SMELTING WORKS	5.00	
WEIGHING CHARGE		
BURLAP SACKS	.50	

ANALYSIS		COLLECTION	NET		RATE		
LEAD	34.8 %			%	.05 CTS.	1.74	
					CTS.		
					CTS.		
					CTS.		
	2.8 %	1.0	1.8	%	.20 CTS.	.36	
					CTS.		
					CTS.		
					CTS.		
					CTS.		
					CTS.		
TOTAL DEDUCTIONS						7.60	
NET VALUE PER TON							68.

				DEBITS	CREDITS
	1.3875	DRY TONS	68.7	PER TON	86.
WET TONS		WET TONS		PER TON	6.82
FREIGHT ON SACKS PER TON					1.72
WHARFAGE					
SAMPLES					
		BROKERAGE			
		Sampling			5.00
		BALANCE TO SHIPPER			72.93
					86.

BY — CHECKED — APPROVED



Spring Creek Mine

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

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Spring Creek Leasing Co.,
Globe, Arizona

EL PASO, TEXAS. 11-6-30

SHIPPING POINT Globe, Arizona

SMELTER LOT 2013

CLASSIFICATION Conc.

SHIPPER'S LOT 4

INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS: GROSS	SACKS: No.	SACKS: WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
SP	10140	120	150	9990	7.2	9271

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	10-25-30	
SILVER	35729	CTS. PER OZ.
LEAD	$ 5.20	PER 100 LBS
E. & M. J. COPPER	[illegible]	CTS. PER LB.
LONDON LEAD PER 2240 LBS	£ s	d
EXCHANGE N. Y.		
EXCHANGE M. CY		

PAYMENTS FOR METALS

	PER CENT	DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PAID FOR	NET PAID FOR		DATE	VALUE: AMOUNT PER TON	VALUE: AMOUNT TOTAL
	oz						oz	20.00	63.00	
40.4	oz				95	46.33	oz	.35729	16.77	
1.5	%	1.5	31.0	620	95	589	lbs	3.70	21.79	
	%		.56	11.2	90	10.08	lbs	.04421	.45	

TOTAL PAYMENTS FOR METALS 102.01

DEDUCTIONS

		DEBITS	CREDITS
Deduction %	Basing Charge FOB El Paso	6.50	
	Handling Sacks	.50	
		1.63	

DEDUCTED	NET	DATE	
%	%	%	Cts.
%	%	%	Cts.
%	%	%	Cts.
%	%	%	Cts.
%	%	%	Cts.
%	%	%	Cts.
%	%	%	Cts.
%	%	%	Cts.
%	%	%	Cts.
%	%	%	Cts.

TOTAL DEDUCTIONS 8.63 8.63

NET VALUE PER TON 93.38

		DEBITS	CREDITS
	Dry Tons @ 93.38 Per Ton		432.86
	Wet Tons @ 5.50 Per Ton	34.33	
Returned	Frt. prepaid	17.76	17.17
Switching	Tax returned		.70
	Switching		2.25
	BALANCE DUE SHIPPER	412.74	
		432.86	432.86

CHECKED APPROVED

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AMERICAN SMELTING AND REFINING COMPANY

EL PASO SMELTING WORKS

ORE SETTLEMENT

Spring Creek Leasing Co., EL PASO, TEXAS. November 6, 1930.

Globe, Arizona. SHIPPING POINT Globe, Arizona. SMELTER LOT 1713

CLASSIFICATION Conc. SHIPPER'S LOT

CAR INITIAL	GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
Creek	6496	91	68	6428	3.3	6216

WEIGHT IN AVOIRDUPOIS POUNDS

Correction a/c freight

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	9-9-30	
SILVER		CTS. PER OZ
LEAD	$	PER 100 LBS
E. & M. J. COPPER		CTS PER LB
LONDON LEAD PER 2240 LBS	£ s d	

EXCHANGE N. Y.

EXCHANGE M. CY.

PAYMENTS FOR METALS

	ASSAY IN OZ LBS	DEDUCTED	NET ASSAY	CALCULATE IN LBS	CALCULATE IN LBS	NET PAYABLE	RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
	OZ					OZ			
	OZ					OZ			
						LBS			
						LBS			

TOTAL PAYMENTS FOR METALS

DEDUCTIONS

		DEBITS	CREDITS
Deduction	Roasting Charge FOB El Paso		
Less Per			
Deduction	Handling Sales		

ASSAYS	DEDUCTION	NET		RA	
	%				Cts.
	%		%		Cts.
	%		%		Cts.
	%		%		Cts.
			%		Cts.
			%		Cts.
			%		Cts.
	%		%		Cts.
	%		%		Cts.

TOTAL DEDUCTIONS

NET VALUE PER TON

					DEBITS	CREDITS
	3.128	Dry Tons @		Per Ton		
	3.3026	Net Tons @	6.11	Per Ton	20.73	
	Int. orig. settlement		6.24		21.17	.44
		Switching				
	Drayage					

BALANCE TO SHIPPER .44

.44 .44

CHECKED PRICED APPROVED

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

Page 20/18

...T OF Spring Creek Leasing Co. EL PASO, TEXAS. Jan. 10, 1931.

...SS Phoenix, Ariz. ...SHIPPING POINT Globe, Ariz. SMELTER LOT 2387

CLASSIFICATION Cons. SHIPPER'S LOT 12

CAR NO.	INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
4793	SP	7820	96	140	7600	11.3	6812

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	12-30-30	
SILVER	31075	CTS. PER OZ
LEAD	$ 5.10	PER 100 LBS
E. & M. J. COPPER	10270	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

	ASSAY PER TON		DEDUCTED	NET ASSAY	EQUIVALENT OUNCES	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
	2.70	oz						oz	20.00 - [illegible]	55.20	
	26.0	oz				95	26.[illegible]	oz	31075 - [illegible]	8.27	
	16.0	%	1.5	14.5	290	95	275.5	lbs	3.7 c	10.19	
OTHER	1.30	%	.5	.8	16	90	14.4	lbs	.0527 - [illegible]	.76	
TOTAL PAYMENTS FOR METALS											74.41

DEDUCTIONS

		DEBITS	CREDITS
Lead Deduction %	Basing Charge FOB El Paso	6.50	
...e Paid For			
...d Deduction	Handling Sacks	.50	
ANALYSIS	DEDUCTION / NET		
39.4	%	1.97	
.3	%		
.5	%		
	%		
	%		
	%		
	%		
	%		
TOTAL DEDUCTIONS		8.97	8.97
NET VALUE PER TON			65.45

		DEBITS	CREDITS
Net Tons 3.405	Dry Tons 6.05 ...5 Per Ton		222.92
Freight on 3.525	Wet Tons 6.[illegible] Per Ton	23.89	
Freight on Sacks Returned		.34	
Drayage	Switching	2.25	
Insurance			
Treatment Charges			
BALANCE DUE SHIPPER		196.44	
		222.92	222.92

SUBMITTED CORRECT APPROVED

GEO. W. CAMERON

ASSAYER AND CHEMIST

EL PASO, TEXAS.

CERTIFICATE OF ASSAY

ASSAYED FOR

MARKED

	Gold Ozs. per ton	Silver Ozs. per ton	Per Cent Copper	Per Cent Lead	Per Cent Iron	Per Cent Zinc	Per Cent Lime	Per Cent Sulphur	Per Cent Zinc	Per Cent Manganese	Per Cent Aluminum

CHARGES

ASSAYER

EL PASO SMELTING WORKS

ORE SETTLEMENT

Page 5 of 18

Spring Creek Leasing Co., EL PASO, TEXAS. October 8, 1930

Phoenix, Ariz. SHIPPING POINT Globe, Ariz. SMELTER LOT 1790

CLASSIFICATION Conc. SHIPPER'S LOT

INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS: GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
SP	9240	123	115	9025	3.0	8754

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	9-23-30	
SILVER	36667	CTS. PER. OZ.
LEAD	$ 3.50	PER 100 LBS
E. & M. J. COPPER	10025	CTS. PER LB.
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE N. CY.		

PAYMENTS FOR METALS

	REDUCED	NET ASSAY	EQUIVALENT IN LBS.	EQUIV. PAID FOR	NET PAID FOR	RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
					OZ	20.00	54.20	
				95	33.91 OZ	36667	12.17	
1.5	1.5	19.9	390	95	372.1 LBS	4.10	15.50	
.5	.5	1.1	20	90	18.8 LBS	.05025	.99	

TOTAL PAYMENTS FOR METALS 93.86

DEDUCTIONS

		DEBITS	CREDITS	AMOUNT TOTAL
	Basing Charge FOB El Paso	6.50		
	Handling Sacks	.50		
33.0		1.80		
	TOTAL DEDUCTIONS	8.80		8.80
	NET VALUE PER TON			75.06

			DEBITS	CREDITS
.377	Dry Tons @ 75.06 Per Ton			328.54
6.570	Wet Tons @ 6.11 Per Ton	27.92		
	Freight	15.65	12.27	
	Sacks returned		.30	
	Switching		2.25	
	BALANCE DUE SHIPPER		313.52	
			326.54	328.54

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EL PASO SMELTING WORKS
ORE SETTLEMENT

Spring Creek Leasing Co.,

EL PASO, TEXAS. Sept. 19, 1930.

SHIPPING POINT Globe, Arizona SMELTER LOT 1713

CLASSIFICATION Cons. SHIPPER'S LOT

WEIGHT IN AVOIRDUPOIS POUNDS							N. Y. METAL QUOTATIONS		
INITIAL	GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT	SETTLEMENT DATE	9-9-30	
	6496	91	68	6428	3.3	6216	SILVER	3625	CTS PER OZ
							LEAD	$ 5.50	PER 100 LBS
							E. & M. J. COPPER	10529	CTS PER LB
							LONDON LEAD PER 2240 LBS	£ s d	
							EXCHANGE N. Y.		
							EXCHANGE M. OY		

PAYMENTS FOR METALS

			NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
[illegible]	oz						oz	20.00	51.00	
[illegible]	oz	1.5	22.1	4.2	95	23.245	oz	[illegible]	3.84	
[illegible]	oz	.5	.73	14.3	90	419.0	lbs	4.10	17.22	
[illegible]						[illegible]	lbs	.05529	.73	
TOTAL PAYMENTS FOR METALS										77.50

DEDUCTIONS

							DEBITS	CREDITS
			Basing Charge [illegible]				6.50	
			Handling Sacks				.50	
	DEDUCTION	NET		RATE				
[illegible]				5	Cts.		1.56	
					Cts.			
					Cts.			
					Cts.			
					Cts.			
[illegible]	.5	.1		1.00	Cts.		.10	
					Cts.			
					Cts.			
					Cts.			
TOTAL DEDUCTIONS							8.66	8.66
NET VALUE PER TON								68.93

			DEBITS	CREDITS
[illegible]	Dry Tons [illegible] 68.93 Per Ton			214.23
[illegible]	Wet Tons [illegible] Per Ton	21.17		
	Prepaid	11.47	9.70	
	////////// Sax Returned		.50	
BALANCE DUE SHIPPER			204.03	
			214.23	214.23

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AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

[illegible] OF Spring Creek Leasing Co., EL PASO, TEXAS. November 13, 1930.

[illegible] Phoenix, Arizona. SHIPPING POINT. Globe, Arizona. SMELTER LOT 2072.

CLASSIFICATION Conc. SHIPPER'S LOT

[illegible]	INITIAL	GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	Moisture %	DRY WEIGHT
[illegible]	TNO	19480 Net 9300 Lot 10180	No. 73 130	160	10020	8.8	9138

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	11-4-30	
SILVER	36175	CTS. PER OZ
LEAD	$5.10	PER 100 LBS
E. & M. J. COPPER	.09275	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ASSAY PER TON 2000 LBS		REDUCTION	NET ASSAY	EQUIVALENT IN LBS	PERCENTAGE PAID FOR	% PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
[illegible]	oz						oz	20.00	37.64	
35.16	oz				95	33.402	oz.	33.75	12.08	
[illegible]	%	1.5	29.5	570	95	541.5	lbs.	3.70	20.04	
1.01	%	.5	.51	10.2	90	[illegible]	lbs	04275	.39	
TOTAL PAYMENTS FOR METALS										70.15

DEDUCTIONS

		DEBITS	CREDITS
[illegible] %	Roasting Charge FOB El Paso	6.50	
[illegible]	Handling Charge	.50	
[illegible]		1.34	
[illegible]		.03	
TOTAL DEDUCTIONS		8.36	8.36
NET VALUE PER TON			61.29

		DEBITS	CREDITS
[illegible]	Dry Tons @ 61.29 Per Ton		280.0
[illegible]	Wet Tons @ 4.[illegible] Per Ton 23.21 prepaid 17.47	5.74	
[illegible]	Lots 2013 & 2072 .05	.15	
	Charged Lot 2013		
	Switching	1.13	
BALANCE DUE SHIPPER		273.01	
		280.03	280.03

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AMERICAN SMELTING AND REFINING COMPANY

EL PASO SMELTING WORKS
ORE SETTLEMENT

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SHIPPER OF ----Spring Creek Leasing Company EL PASO, TEXAS. November 20, 1930.

ADDRESS Phoenix, Arizona SHIPPING POINT Globe, Arizona. SMELTER LOT 2072

CLASSIFICATION Conc. SHIPPER'S LOT 5

WEIGHT IN AVOIRDUPOIS POUNDS								
	INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	Moisture %	DRY WEIGHT
	TNO	10480 Net			10020	8.8	9138
		9300 Lot 2073					
		10120	130	130			
		Correction account Freight					

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	11-4-30	
SILVER		CTS PER
LEAD	$	PER 100
E. & M. J. COPPER		CTS. PER
LONDON LEAD PER 2240 LBS	£	s d
EXCHANGE N. Y.		
EXCHANGE M. CY		

PAYMENTS FOR METALS								VALUE	
	ASSAY PER TON 2000 LBS	DEDUCTED	NET ASSAY	FOB VALUE	PER CENT PAID FOR	NET PAID FOR	DATE	AMOUNT PER TON	AMOUNT TOTAL
	%					OZ.			
	OZ.					OZ.			
	%					LBS.			
	%					LBS.			
TOTAL PAYMENTS FOR METALS									

DEDUCTIONS		DEBITS	CREDITS
Lead Deduction %	Basing Charge FOB El Paso		
Per			
Deduction	Handling Sacks		
Smelter			

ANALYSIS	DEDUCTION	NET		RATE	
%			%	%	Cts.
%			%	%	Cts.
%			%	%	Cts.
%			%	%	Cts.
%			%	%	Cts.
%			%	%	Cts.
%			%	%	Cts.
%			%	%	Cts.
%			%	%	Cts.
TOTAL DEDUCTIONS					
NET VALUE PER TON					

				DEBITS	CREDITS
4263	Dry Tons		Per Ton		
5,000	Wet Tons	4.94	Per Ton	25.21	
Smelter Slag	Sweeping			23.21	1.93
Brokerage					
BALANCE DUE [illegible] Shipper					1.93
				1.93	1.93

APPROVED

EL PASO SMELTING WORKS
ORE SETTLEMENT

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OF Spring Creek Mining Co., EL PASO, TEXAS. 11-20-30

ss Globe, Arizona. SHIPPING POINT Globe, Arizona. SMELTER LOT 2101

CLASSIFICATION Conc. SHIPPER'S LOT 6

CAR INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
NT	17600	Net		12370	10.6	11059
	5040	Lot	2102			
	12560	48	190			

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	11-10-30	
SILVER	36042	CTS. PER OZ.
LEAD	$ 5.10	PER 100 LBS
E. & M. J. COPPER	101	CTS. PER LB.

LONDON LEAD PER 2240 LBS

£ s d

EXCHANGE N. Y.

EXCHANGE M. CY.

PAYMENTS FOR METALS

METAL	%	DEDUCTED	NET ASSAY	GROSS WT.	PERCENT RECOVERY	NET WT. FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
[illegible]	[illegible]			[illegible]	95	38.12	oz.	[illegible]	20.26	
[illegible]	[illegible]	.5	27.4	518	95	520.6	oz.	36042	10.14	
.24	[illegible]	.5	.44	[illegible]	90	[illegible]	lbs	3.70	17.26	
							lbs	.051	.40	

TOTAL PAYMENTS FOR METALS 60.06

DEDUCTIONS

		DEBITS	CREDITS
[illegible] %	Sacking Charge FOB El Paso	6.50	
	Handling Sacks	.50	

METAL	%	DEDUCTION	NET		RATE			DEBITS	CREDITS
[illegible]	%			%	$	5	Oz.	2.80	
	%			%	$		Oz.		
	%			%	$		Oz.		
	%			%					
[illegible]	%	1.	.1	%	$	20	Oz.	.02	
	%			%	$		Oz.		
	%			%	$		Oz.		
	%			%	$		Oz.		
	%			%	$		Oz.		

TOTAL DEDUCTIONS 2.82 | 8.82

NET VALUE PER TON 51.24

		DEBITS	CREDITS
[illegible]	Dry Tons @ 52.[illegible] Per Ton		283.33
[illegible]	Wet Tons @ 5.33 Per Ton	33.47	
[illegible] Returned	Freight Prepaid	22.62	11.85
	Screening		
	Freight on sax returned		.2
[illegible] Brokerage	Switching		2.25

BALANCE DUE SHIPPER 268.72

283.33 283.33

[illegible] CORRECT APPROVED

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AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

Of Spring Creek Leasing Co., EL PASO, TEXAS. November 24, 1930

Phoenix, Arizona. SHIPPING POINT Globe, Arizona SMELTER LOT 2123

CLASSIFICATION Conc. SHIPPER'S LOT #9

CAR	INITIAL	GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	% MOIS	DRY WEIGHT
Truck		7580	102	150	7430	9.6	6717

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	11-13-30	
SILVER	36042	CTS. PER OZ
LEAD	$ 3.10	PER 100 LBS
E. & M. J. COPPER	101	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

	ASSAY PER TON		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
	1.16	oz.						oz.	20.00	23.20	
	22.0	oz.				.95	21.00	oz.	36042	7.80	
	17.4	%	1.5	15.9	318	95	302.1	LBS	3.70	11.18	
	.64	"	.5	.14	2.8	90	2.52	LBS.	051	.13	
TOTAL PAYMENTS FOR METALS											42.39

DEDUCTIONS

		DEBITS	CREDITS
Less Deduction %	Freight Charge - OR EL Paso	5.24	
Less Deduction	Handling Sack	.50	
Less Deduction		2.61	
TOTAL DEDUCTIONS		8.35	8.35
NET VALUE PER TON			34.04

			DEBITS	CREDITS
3.0000	Dry Tons @ 34.04 Per Ton			114.32
3.7.0	Wet Tons @ 4.94 Per Ton	18.72		
Sacks Returned	Prepaid	13.33	5.39	
	Frt. on Sax returned		.60	
BALANCE DUE SHIPPER			108.33	
			114.32	114.32

AMERICAN SMELTING AND REFINING COMPANY

EL PASO SMELTING WORKS

ORE SETTLEMENT

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SHIPPER Sp. Mr Creek Leasing Company

EL PASO, TEXAS. December 3, 1930.

ADDRESS Phoenix, Arizona. SHIPPING POINT Globe, Arizona. SMELTER LOT 2178

CLASSIFICATION Conc. SHIPPER'S LOT

CAR

WEIGHT IN AVOIRDUPOIS POUNDS							
INITIAL	GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT	
	7900	100	160	7700	12.4	6798	

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	11-24-30	
SILVER	35425	CTS. PER OZ
LEAD	$ 5.10	PER 100 LBS
E. & M. J. COPPER	10244	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT PER CENT	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
	.03	oz.						oz	20.00	13.60	
	13.5	oz				95	12.825	oz.	35425	4.54	
	3.7	%	1.5	7.2	144	95	136.8	lbs	3.70	5.06	
	.75	%	.5	.25	5.0	90	4.5	lbs	.05244	.24	

TOTAL PAYMENTS FOR METALS 23.44

DEDUCTIONS

		DEBITS	CREDITS
Freight	Basing Charge FOB El Paso	3.00	
Sampling	HandCing Sacks	.50	
Treatment		3.00	

ASSAYS		DEDUCTION				
61.0	%				%	Cts.
	%			%	%	Cts.
					%	Cts.
.2	%				%	Cts.
.75	%			%		Cts.
	%			%	%	Cts.
	%			%	%	Cts.
	%			%	%	Cts.
	%			%	%	Cts.
	%			%	%	Cts.

TOTAL DEDUCTIONS 7.09 7.09

NET VALUE PER TON 16.35

		DEBITS	CREDIT
3.000	Dry Tons @ 16.35 Per Ton		55.57
3.000	Wet Tons Per Ton Deducted	–	
Sacks Returned		.50	
	SAMPLE		

BALANCE DUE SHIPPER 55.07

55.07 55.07

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EL PASO SMELTING WORKS
ORE SETTLEMENT

CONSIGHT OF Spring Creek Lessin; Company

EL PASO, TEXAS, 11-25-3.

ADDRESS Phoenix, Ariz. SHIPPING POINT Globe, Ariz. SMELTER LOT 2151

CLASSIFICATION Cong. SHIPPER'S LOT #8

CAR NO	INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS: GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	Moisture %	DRY WEIGHT
Cr. Truck		7530	102	160	7370	13.3	6390

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	11-13-30	
SILVER	35917	CTS PER
LEAD	$5.10	PER 100 L
E. & M. J. COPPER	1017	CTS PER L
LONDON LEAD PER 2240 LBS	£	s d
EXCHANGE N. Y.		
EXCHANGE N. OY		

PAYMENTS FOR METALS

	ASSAY PER TON		DEDUCTED	NET ASSAY	TRANSIT %	PERCENT RECOVERY	NET PAYABLE		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
	1.22	%						oz	30	35.60	
	12.4					95	30.33	oz	35917	7.30	
	24.0	%	1.5	12.5	25	95	23.75	Lbs.	7.7	3.79	
	.7	%	.5	.2	4	90	3.6	Lbs.	.06017	.22	

TOTAL PAYMENTS FOR METALS 41.3

DEDUCTIONS

		DEBITS	CREDITS
Smelter Deduction % Allowed For Deduction	Basing Charge FOB El Paso	5.13	
	Handling Charges	.50	

ASSAY	%	DEDUCTION	NET	%					DEBITS	CREDITS
59.4	%			%				Lbs.	2.97	
	%			%				Lbs.		
	%			%				Lbs.		
.3	%			%				Lbs.		
3.3	%	1.	7.2	%			20	Lbs.	1.00 Max.	
	%			%				Lbs.		
	%			%				Lbs.		
	%			%				Lbs.		
	%			%				Lbs.		

TOTAL DEDUCTIONS 9.60 9.60

NET VALUE PER TON 31.71

			DEBITS	CREDITS
3.125	Dry Tons @ 31.71 Per T			101.31
3.255	Wet Tons @ 4.55 Per T	17.13		
	Frt. prepaid	23.24	3.89	
	Switching			
	Frt. On Sacks returned Lots 2123-2131	.70		
	Charged on Lot 2135	.60	.10	
	BALANCE TO SHIPPER		97.32	
			101.31	101.31

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AMERICAN SMELTING AND REFINING COMPANY

EL PASO SMELTING WORKS

ORE SETTLEMENT

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Shipper Spring Creek Leasing Co., EL PASO, TEXAS. Dec. 12th, 1930

Phoenix, Arizona SHIPPING POINT Globe, Arizona SMELTER LOT 2219

CLASSIFICATION Conc. SHIPPER'S LOT 10

CAR	INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
1788	SP	8440	120	160	8280	12.6	7237

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	12-2-30	
SILVER	34396	CTS. PER OZ
LEAD	$ 5.10	PER 100 LBS
E. & M. J. COPPER	11004	CTS. PER LB.
LONDON LEAD PER 2240 LBS.	£ s d	
EXCHANGE N. Y.		
EXCHANGE N. CY.		

PAYMENTS FOR METALS

TOTAL ASSAY		TENORS	NET ASSAY	PAYMENT %	PURCHASE RATE	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
1.18	oz						oz.	20.00	22.40	
19.0	oz				95	18.05	oz	34396	6.21	
8.1	%	1.5	6.6	132	95	125.4	lbs	3.7	4.64	
.05	%	.5	.35	7.0	90	6.3	lbs.	.00004	.38	
TOTAL PAYMENTS FOR METALS										33.63

DEDUCTIONS

		DEBITS	CREDITS
Lead Deduction	Basing Charge FOB El Paso	4.36	
Per Ton			
Deduction	Handling Sacks	.50	
Penalty			
ASSAYS	NET / RATE	3.09	
62.8 %	% Cts.		
	% Cts.		
	% Cts.		
.3	% Cts.		
	% Cts.		
.05	% Cts.		
	Cts.		
	Cts.		
	Cts.		
	Cts.		
TOTAL DEDUCTIONS		7.95	7.95
NET VALUE PER TON			25.68

				DEBITS	CREDITS
Smelter	3.6185	Dry Tons @	25.38		92.92
Refinery	4.220	Wet Tons @	Per Ton 19.20		
Freight Prepaid			14.47	4.73	
Switching				2.25	
Freight on Sacks Returned				.50	
BALANCE DUE SHIPPER				85.44	
				92.92	92.92

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EL PASO SMELTING WORKS
ORE SETTLEMENT

Spring Creek Leasing Co.,

Phoenix, Ariz.

EL PASO, TEXAS. 7-31

Globe, Ariz.

SHIPPING POINT

2346

SMELTER LOT

CLASSIFICATION Conc.

SHIPPER'S LOT

WEIGHT IN AVOIRDUPOIS POUNDS							
UNIT AS	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT	
	8105	115	120	7985	7.5	7386	

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	12-22-30	
SILVER	31825	CTS. PER O
LEAD	$ 5.10	PER 100 LB
E & M J. COPPER	10010	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ S d	
EXCHANGE N. Y.		
EXCHANGE M. CY		

PAYMENTS FOR METALS

ASSAY RESULTS	COLLECTED	NET ASSAY	POUNDS	%	NET PAYABLE		DATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
[illegible]					[illegible]	oz	20.00	40.00	
[illegible]	1.5	33.3	268	95	237.335	oz.	31.825	8.86	
[illegible]	.5	.48	9.6	80	252.7	Lbs.	3.70	9.35	
					8.64	Lbs.	.0501	.43	

TOTAL PAYMENTS FOR METALS 68.44

DEDUCTIONS

		DEBITS	CREDITS
	Assay Charge 1 OB El Paso	6.00	
	Hauling Sw[illegible]	.50	
20.3	5 Cts.	2.48	
	Cts.		
	Cts.		
	Cts.		
	Cts.		
	Cts.		
	Cts.		
	Cts.		
	Cts.		
	Cts.		
TOTAL DEDUCTIONS		9.48	

TOTAL DEDUCTIONS 9.48

NET VALUE PER TON 58.96

			DEBITS	CREDITS
3.083	Dry Tons	3.96 Per Ton		217.74
4.3725	Wet Tons	6.11 Per Ton		
Sacks Returned			24.76	
	Switch		.40	
Freight				
BALANCE DUE SHIPPER			192.58	
			217.74	217.74

CHECKED CORRECT APPROVED

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AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Carolan and McAuliffe — EL PASO, TEXAS 11-9-26

SHIPPING POINT Globe, Ariz — SMELTER LOT 3707

CLASSIFICATION Cono — SHIPPER'S LOT

CAR NO.	INITIAL	GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	Moisture %	DRY WEIGHT
3	CN	37040	Wt		34125	1.3	33750
		2560	109	3708			
		34480	427	235			
Deduction (Dead)				1.5			
Net copper paid for				.404			
				1.904			

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

Settlement Date	10-25-26	
Silver	.52375	cts. per oz
Lead	$ 3.25	per 100 lbs
E. & M. J. Copper	13.917	cts. per lb
London Lead per 2240 lbs.	£	s d
Exchange N. Y.		
Exchange Mex. Cy.		

PAYMENTS FOR METALS

Assay per to		Deductions	Net Assay	Equivalent in Lbs	Recovery Per Cent	Net Paid For		Rate	Value Amount per Ton	Value Amount Total
1.87	oz.						oz.	20.00	37.40	
13.9	oz.		13.9		95	13.205	oz.	.52875	6.98	
10.2	%	1.904	8.296	165.92	90	149.328	lbs.	.0685	10.23	
1.76	%	.75	1.01	20.2		2.02	lbs.	.10917	2.21	
								TOTAL PAYMENTS FOR METALS		56.32

DEDUCTIONS

	Debits	Credits
Smelting Charge El Paso Smelting Works	5.00	
Freight		
Sacks	.50	

Assays		Deduction	Net		Rate		Debits
Cu	41.4 %			%		cts.	2.07
				%		cts.	
				%		cts.	
				%		cts.	
Pb	2.4 %	1.2	.4	%		cts.	.08
				%		cts.	
				%		cts.	
				%		cts.	
				%		cts.	
				%		cts.	
					TOTAL DEDUCTIONS		7.65

NET VALUE PER TON 49.17

					Debits	Credit
Dry Tons	16.875	Dry Tons @	49.17	Per Ton		829.74
Wet Tons	17.240	Wet Tons @	5.30	Per Ton	91.13	
Deduction Sacks Returned						
Freight		Switching	2.35		2.55	
Charges						
Brokerage		Brokerage				
				Balance Due Shipper	736.26	
					829.74	829.74

Checked — Correct — Approved

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AMERICAN SM[illegible] REFINING CO.

EL PASO SMELTING WORKS

ORE SETTLEMENT

BOUGHT OF Carolan & McAuliffe, EL PASO, TEXAS. Aug. 24, 1927.

SHIPPING POINT Globe, Ariz. SMELTER LOT 2764

CLASSIFICATION Ore SHIPPER'S LOT 1

CAR NO.	INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS: GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
[illegible]	AT				26500	1.2	26182
		Deduction A/c Cu paid for				.52	
		regular deduction				1.5	
						2.02	

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	8-16-27	
SILVER	.545	CTS.
LEAD	6.75	PER LB.
E. & M. J.		
COPPER	13077	CTS.
LONDON LEAD PER 2240 LBS.	£	s d
EXCHANGE N. Y.		
EXCHANGE MEX. CY.		

PAYMENTS FOR METALS

	ASSAY PER TON OF 2000 LBS.	DEDUCTED	NET ASSAY	VALUE OF ASSAY	PERCENT PAID FOR	NET PAID FOR		RATE	AMOUNT PER TON	VALUE
	[illegible]					[illegible]	oz.	20.00	40.60	
	[illegible]				95	30.57	oz.	.545	16.68	
	15.[illegible]	2.02	14.02	237.[illegible]	95	267.[illegible]	lbs.	.0535	14.31	
	[illegible]	.50	1.50	26.0		26.0	lbs.	.13077	3.62	
								TOTAL PAYMENTS FOR METALS		74.[illegible]

DEDUCTIONS

	DEBITS	CREDITS
[illegible] PAID MELTING WORKS [illegible] + 2.44	5.94	
[illegible] CHARGE		
[illegible] SACKS	.50	

ANALYSIS		DEDUCTION	NET		RATE		
[illegible]	5[illegible] %			%	.05	CTS.	2.71
	%			%		CTS.	
[illegible]	%			%		CTS.	
	%			%		CTS.	
	%			%		CTS.	
[illegible]	[illegible] %	1.	.3	%	[illegible].50	CTS.	.75
	%			%		CTS.	
	%			%		CTS.	
	%			%		CTS.	
				%		CTS.	

TOTAL DEDUCTIONS 9.90

NET VALUE PER TON 6[illegible]

					DEBITS	CREDITS
[illegible] GROSS ON	13.091	SMELTING TONS AT	[illegible]	PER TON		84[illegible]
[illegible] FREIGHT ON	26.760	NET TONS	4.20	PER TON	56.20	
[illegible] FREIGHT ON SACKS RETURNED						
[illegible] WAREHOUSE		SWITCHING			2.25	
[illegible]						
[illegible]		BROKERAGE				
		ADVANCE			575.00	
		BALANCE DUE SHIPPER			211.05	
					844.50	8[illegible]

[illegible] CHECK APPROVED

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AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Carolan & McAuliffe, EL PASO, TEXAS, Jan. 12, 1926

SHIPPING POINT Globe, Ariz. SMELTER LOT 45

CLASSIFICATION Conc. SHIPPER'S LOT

CAR NO	INITIAL	GROSS	SACKS NO	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
35201	MXT	12320	137	100	12220		12098
Reg. Load Deduction					1.5		
Ded. a/c copper paid for					.304		
					1.804		

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	1-5-26	
SILVER	.6850	CTS. PER OZ
LEAD	9.25	PER 100 LBS
E. & M. J.		
COPPER	.13895	CTS. PER LB
LONDON LEAD PER 2240 LBS.	£	s d
EXCHANGE N. Y.		
EXCHANGE MEX. CY.		

PAYMENTS FOR METALS

	ASSAY PER TON 2000 LBS.	DEDUCTIONS	PER ASSAY	PER CENT	NET PAYMENT	RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
	[illegible]							
[illegible]	.7					20.00	80.80	
[illegible]	.3	1.764	23.536	470.72	22.516	.6250	14.12	
[illegible]	.41	.75	.66	13.2	4[illegible].34	.07	33.36	
						.106.75	1.44	

TOTAL PAYMENTS FOR METALS 129.6

DEDUCTIONS

	DEBITS	CREDITS
Freight F.O.B. El Paso Smelting Works	5.00	
Handling Sacks	.50	
[illegible]	1.21	
[illegible]	.7[illegible]	
[illegible]	.36	

	PER TON	NET	RATE
[illegible]			[illegible] .25 CTS.
[illegible]	1.0	.8	[illegible] CTS.
[illegible]	1.0	1.2	[illegible] CTS.

TOTAL DEDUCTIONS 7.33 7.2[illegible]

NET VALUE PER TON 122.3[illegible]

			DEBITS	CREDITS
[illegible] 6.049	DRY TONS [illegible] 122.[illegible]	PER TON		740.34
[illegible] TON 6.1[illegible]	WET TONS [illegible] 7.33	PER TON	44.35	
[illegible] SACKS RETURNED			.62	
[illegible]	SWITCHING		2.25	
[illegible]	BROKERAGE Samp[illegible]		5.00	
	BALANCE DUE SHIPPER		687.62	
			740.34	740.34

CHECKED [illegible] APPROVED

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
NET SETTLEMENT

Page 17 of 18

BOUGHT OF Carolan & McMullen, EL PASO, TEXAS Aug. 24, 1927.

SHIPPING POINT Globe, Ariz. SMELTER LOT 2765

CLASSIFICATION Ore SHIPPER'S LOT 2

CAR	INITIAL	GROSS	SACKS No.	SACKS Weight	NET WEIGHT	Moisture	DRY WEIGHT
[illegible]					44250	1	43817

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATION

SETTLEMENT DATE	8-16-27	
SILVER	.545	CTS. PER
LEAD	$	PER 100
E. & M. J.		
COPPER	13077	CTS. PER
LONDON LEAD PER 2240 LBS.	£	s d
EXCHANGE N. Y.		
EXCHANGE MEX. CY.		

PAYMENTS FOR METALS

						RATE	VALUE AMOUNT PER TON	VALUE AMOUNT
[illegible]						19.50	40.37	
4.	.5	4.3				.515	2.34	
1.40	.40	1.09				.05774	3.31	

TOTAL PAYMENTS FOR METALS 45.0

DEDUCTIONS

				DEBITS	CREDITS
EL PASO SMELTING WORKS				[illegible]	
			CTS.		
			CTS.		
			CTS.		
			CTS.		
			CTS.		
			CTS.		
			CTS.		
			CTS.		
			CTS.		
			CTS.		

TOTAL DEDUCTIONS 5.00 5.

NET VALUE PER TON 40.

				DEBITS	CREDITS
1.[illegible]	DRY TONS [illegible]		PER TON		37[illegible]
.30	[illegible]		PER TON	92.[illegible]	
[illegible]				1.[illegible]	
	SWIT[illegible]	[illegible]		3.10	
	BROKERAGE				
	ADVANCE			375.00	
	BALANCE DUE SHIPPER			204.15	
				375.78	37[illegible]

CORRECT APPROVED

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Spring Creek (Yankee Dollar #1-11) Date February 1981

District Spring Creek, Gila County Engineer Ken A. Phillips

Subject:

NOTE: The attached eighteen pages of smelter settlement reports were provided and reported to be of shipments from the Spring Creek Mine. However, the copper payments seem unreasonably high for the reports to be of ore from that mine.

We experienced no trouble with free-gold, even when a flotation preceded tabling, and on the whole, we think that the products of the tests check back to within reasonable limits of the gold assay of the sample.

Yours very truly,

THE GENERAL ENGINEERING COMPANY

BY: [illegible]

[illegible]
[illegible] report in trip.
[illegible] tests test 3 & 7

June 21, 1939

Mr. L. E. Foster
Spring Creek Mining Co.
Box 807
Globe, Arizona

Dear Sir:

TEST REPORT ON SAMPLE OF ORE
OUR LOT 1359

Herewith we beg to hand you the report of the test work we have done on the above sample of ore, shipped to us, as per your letter of May 13th.

The ore, as we received it, had the following analysis:

Original Sampling

Gold - - - - - - - - -	0.43 oz.
Silver - - - - - - - -	9.7 oz.
Lead (Total) - - - -	7.1 %
Non-sulphide Lead -	3.5 %
Copper (Total) - - -	0.95%
Non-Sulphide Copper	0.72%
Insoluble - - - - -	73.3 %
Zinc - - - - - - - - -	9.7 %
Iron - - - - - - - - -	6.9 %
Lime - - - - - - - -	1.5 %

Tonnemling:

Gold - - - - - - - - -	0.40 oz.
Silver - - - - - - - -	[illegible] oz.

We closed up in all 9 individual tests on average portions of this sample: these tests following the usual research [illegible], which were not assayed.

Two different flowsheets were tried out; one, tabling at 20 mesh, re-grinding and floating the table tailings; the other, grinding to 82% - 200 mesh; floating and tabling the flotation tailings. The results obtained from these two different flowsheets are about the same. The second flowsheet, however, where flotation is made the prime process is much simpler from an installation and operating point of view, as the grinding can be done in one stage, whereas, if tabling precedes flotation, you would first have to grind to 20 mesh and then re-grind to 82% - 200 mesh (3% on 100 mesh), besides which, very much better control of the flotation circuit is obtained if it precedes instead of following tabling.

STRUCTURE:

The structure apparent to a reconnaissance examination is relatively simple. The schistosity is practically constant in dip and strike, observed faults are local and of small magnitude. The strike and dip of the vein where unaffected by surface creep appears constant. There remains the possibility of a fault along Spring Creek.

CONDITIONS INFLUENCING PROSPECT:

(1) The small size of the veins and ore shoots should be recognized and no large ore shoots expected.

(2) The size and erratic width of veins should discourage further exploration until the ore shoots already developed have proven profitable.

(3) It is considered improbable that other ore shoots will be developed to the west of the most westerly shoot developed, as the vein splits at this point into two very small stringers.

(4) If the shoots developed prove profitable, it is probable that one or more similar bodies can be developed on the east side of Spring Creek in the main vein. The vein on this end of the property has a slightly stronger outcrop than the vein to the west of Spring Creek, and the vein here is practically virgin ground.

SUMMARY:

One or more small, pre-Cambrian veins of mesothermal type have develped in Pinal schist of Algonkian age. The veins are erratic in width but remain structurally undisturbed. Ore shoots are formed where the vein bulges to a minable width. Two or more shoots have been developed. There is considered to be a possibility of one or more similar ore shoots on the vein to the east of the main tunnel.

CONCLUSION:

If the mining of the ore shoots developed shows a reasonable profit, development of the vein to the east of Spring Creek is justified.

7/10/30 (Signed) Benj. N. Webber, Geologist

Two veins are of possible value, the main and south veins. The writer is not sure but that these are the same vein.

What is known as the main vein is exposed in the main tunnel for about 700 feet. The south vein which is here considered as the continuation of the main vein is exposed in cuts and short tunnels over a distance of about 500 feet. This gives a known exposure along one vein of approximately 1200 ft.

The vein in the main tunnel strikes N 63 E and dips 83 degrees to the south. The vein as exposed on the east side of Spring Creek is considerably contorted, both as to dip and strike, by surface creep, but the average strike is about N 60 E with a dip of about 80 degrees to the south.

The mineralogy of the veins is quartz, limonite, subordinate cerrusite and copper carbonates. The primary mineralization inferred from the oxide zone minerals and from sparse residual sulphides should be pyrite, chalcopyrite and galena in a matrix of quartz.

Both quartz and sulphides are inclined to occur in lenticular masses. There is no crustification or banding of minerals.

Since the veins do not appear to extend into the basal Paleozoic, and since they conform in type but not in size to pre-Cambrian veins occuring in the schist, elsewhere in the state, the veins are taken to be of pre-Cambrian age.

Since no high temperature minerals are visible megoscopically the veins are tentatively classed as mesothermal type, formed at a moderate depth and temperature.

The genesis of the veins is an open question until more than a reconnaissance study is made of the area.

ORE SHOOTS:

The ore shoots are lenticular, horizontally. They could only be observed in one place, but their vertical habit is considered to be similar. Ore shoots are constituted by a widening of the vein to a minable width. These bulges in the vein do not seem to be due to chemical control as no important changes in the country rock could be detected in their vicinity. Some slight changes in color and texture of wall rock occur but the basic wall rock remains sericite schist. Structural features which may have affected the deposition of ore are obscure to a reconnaissance examination. The most westerly ore shoot appears to be related to a split in the vein, or what may be the juncture of two small stringers to form the main vein.

For tenor of ore and dimensions of ore shoots see assay plat.

conglomerate at Spring Creek suggests that it may represent both the Scanlon and Barnes conglomerates with the intermediate member, the Pioneer shale locally missing. The conglomerate appears to pass upward into hard sandstone.

Unconformably on the schists, conglomerate and sandstone, is a basalt flow, largely removed by erosion. The basalt is probably Tertiary.

In the schists and greenstone in close proximity to a quartzitic member are two or more veins apparently of pre-Cambrian age and hypethermal type.

VEINS:

The veins are small and, in general, they range in size from knife blade stringers to a few inches in width. Locally they may widen to three feet. The veins are irregular in size and may widen or pinch vertically or horizontally over a short distance.

Four types of lode "habits" were distinguished, at least one of which is of no value. (1) The type of the main vein, which is persistant in strike but erratic in thickness, the vein matter is largely quartz, limonite, and small amounts of cerrusite and copper carbonates. There is very little distention of schist as the vein widens or pinches indicating that crystallogenetic force was a small factor in the growth of the vein. (2) A type illustrated by what is taken to be an exposure of the south vein. This consists of lenses of quartz connected by irregular and interlacing quartz stringers. There is no visible distortion of the wall rock. Mineralization consists of quartz and limonite, although elsewhere the vein contains oxidation products of lead and copper sulphides. (3) A type of habit illustrated by the vein in tunnel W, also by a vein exposed on the north end of the Magic Wand. The vein consists of roughly parallel lenses of quartz, there are no connecting stringers and the schist about the lenses is distorted as if the vein had grown from pressure from within, probably that of growing crystals. The quartz is glassy and contains schist inclusion. There appears to be no sulphide oxidation products present. Rounded cavaties in the schist are filled with black mud. This is taken to be the decomposition of schist inclusions. (4) A fourth type of vein is entirely barren and consists of very irregularly oriented quartz lenses. The quartz is hard, milky and barren. The lode traverses a quartzitic schist member. There is no distortion of the schist and deposition by replacement is indicated. The original siliceous character of the matrix suggests that the quartz was furnished by the wall rock rather than brought from any depth.

Type (4) is of no value, type (3) is of very doubtful value, types (1) and (2) are probably variatons of the main vein.

Bill Winters

GEOLOGIC RECONNAISSANCE OF THE SPRING CREEK LEASE

Spring Creek District, Gila County, Ariz.

by

BENJ. N. WEBBER, Geologist

LOCATION:

The Spring Creek Group consists of five claims and fraction, located in the Spring Creek district in the northern end of the Sierra Ancha mountains in Gila County, Arizona. The mine is eight miles from Young, Arizona, the nearest post office, and 88 miles from Globe, Arizona, the nearest shipping point.

The mine is accessible by a good mountain road from Globe. This road is maintained jointly by Gila County and the U.S. Forestry service.

The climate is temperate and semi-arid, there is no season of the year that will interfere with outside work.

TOPOGRAPHY:

This area is located practically on the boundary between the mountain physiographic province and the plateau province of Arizona. The local topography is that of a dissected plateau, with dissection fairly well advanced so that flat topped hills with rounded to abrupt slopes alternate with valleys of moderate depth.

The drainage is reticulate to dendritic and trends westward to the Tonto basin. The only perennial stream in the vicinity is Spring Creek, the flow of which is estimated at the present time as about 120 miners inches.

GENERAL GEOLOGY:

The prevailing country rock is Pinal Schist of Algonkian age. The Pinal schist and a pre-Cambrian granite constitute the basement rocks of the Sierra Ancha range. Locally, the schist is largely sericitic schist with some intercalated greenstones. The greenstones are schistose and probably represent old lavas. Some of the schist is quartzitic and quartzite members occur with softer schists. To the south of Ripper canyon is a mass of quartz porphyry. This mass is schistose on its periphery and it appears to represent an intrusion into the schist before the regional metamorphism had established its schistose characteristics. For general purposes it may now be classified with the schist complex, although near the center of the intrusion the porphyritic character is still apparent.

The schistosity in general trends from North 40 to 60 East, and the dip is close to the vertical.

Resting on the beveled edges of the schist and foreset against the flanks of the schistose quartz porphyry mass is a conglomerate, the bedding planes of which are practically horizontal. The conglomerate reaches a maximum thickness of approximately 100 feet. This conglomerate is probably to be correlated with the base of the Apache group, the Scanlon conglomerate of upper Cambrian time. The thickness of the

[illegible] GAMAN
[illegible] AND TREASURER

C. E. BRIDGE
SECRETARY

O. C. DAVEY
VICE PRE[illegible]

[illegible] (EHRENWALD)
[illegible] MACHINE
[illegible] CONDENSING TANKS
[illegible]
[illegible] FEEDER
[illegible] LABORATORY EQUIPMENT
[illegible] MACHINE
[illegible] MILLS
[illegible] MACHINE
[illegible] & REAGENTS
[illegible]
[illegible]

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CABLE ADDRESS
"DECO"
DENVER

April 6, 1929.

Mr. L. E. Foster,
Box 907,
Globe, Arizona.

Dear Mr. Foster:

Test on Spring Creek Mine Ore, Our Order C-1105, Test 713, as follows:

This was a heavily oxidized ore, assaying:

0.27 oz. Au
3.4% Ag
0.3% Pb
3.[illegible] Cu

It was decided that tabling would be the first step in the treatment of this ore.

The ore was ground dry to 20 mesh and tabled. This yielded a concentrate representing 13.4% by weight of sample taken, and assayed

1.3[illegible] oz Au
48.2 oz Ag
12.0% Pb
4.1% Cu

as shown on assay 7739. This showed a recovery of 80% of the Au, 32.8% of the Ag., 68.2% of Pb and 70.0% [illegible] the Cu.

The tailings from the table were then ground wet to 100 mesh and the following reagents added:

0.05 lbs. Yarrow pine oil
0.03 lbs. Aryl [illegible]thate
0.03 lbs. Sodium Ethyl Xanthate

The pulp dilution was 3.5 to 1, and it was floated for 10 min. This flotation gave a concentrate representing 2% by weight o[illegible]

[illegible] WITHOUT NOTICE. ALL QUOTATIONS UNLESS OTHERWISE [illegible] ARE [illegible] IMMEDIATE ACCEPTANCE ONLY. ALL AGREEMENTS AR[illegible] ALL THE TERM[illegible] AND NO AGENT, SALESMAN OR ANY OTHER PARTY IS AUTHORIZED TO BIND THE COMPANY BY ANY AGREEMENT WH[illegible] PRIOR OR [illegible] HEREIN EXPRESSED.

[illegible]ver [illegible]ipment Co.

[illegible] # [illegible] 1185
[illegible] [illegible] Oxidized mineral flotation.

February 28, 1928.

Test No. [illegible].

Assay No.	Product	Weight: Grams	Per Cent	Assays Troy Oz. Per Ton: Au	Ag	Analyses Per Centum: Pb	Cu	Zn	Fe	Ins
[illegible]	Heads			0.27	[illegible]	6.5	0.8			
[illegible]	[illegible] Conc.	[illegible]	[illegible]	[illegible]	[illegible]	32.8	4.1	tr	12.3	25.3
[illegible]	[illegible] Sulf	[illegible]	3.0	[illegible]	[illegible]	[illegible]	6.2	tr	7.9	42.4
[illegible]	" Oxide	155	[illegible]	[illegible]	[illegible]	17.4	3.5	0.4	8.7	47.3
[illegible]	Tails	1312	[illegible]	tr	0.3	0.25	0.12			
	Total	2449	100.0							

Assay No.	Grams per 100 Tons:	Ag	Pb	Cu	Per Cent Recovery:	Ag	Pb	Cu	Concentration Ratio Individual
[illegible]	[illegible]	[illegible]	4.[illegible]	[illegible]	[illegible]	38.6	38.3	70.0	7.3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18.4	3.0	15.6	50.0
[illegible]	[illegible]	[illegible]	1.33	[illegible]	17.3	11.3	21.6	3.6	13.5
[illegible]	--	0.15	0.20	0.02	--	1.8	3.1	11.8	
[illegible]	0.235	8.36	8.37	[illegible]	100	100	100	100	

original sample taken and assayed-

3.43 oz. Au
80.9 oz. Ag
32.4% Pb
8.2% Cu

as shown by assay 7760. This represented a recovery of 2.2% of the Au, 18.6% of the Ag, 6.3% of the Pb, 15.6% of the Cu.

The tailings from this test contained the oxidized minerals and we attempted to recover them. The following reagents were added from time to time as the presence of the minerals was required:

0.30 lbs. T E mixture (14% Thiocarbenalide dissolved in orthotoluidine)
0.64 lbs. [illegible]% Xanthate
[illegible] lbs. Barrett No. 4 Oil
[illegible].00 lbs. Sodium Sulphide
3.00 lbs. Sulphuric acid.

It was found that acid was necessary to keep the pulp from getting alkaline, and both conditioning and flotation proved best when the pulp was held neutral.

Conditioning was continued for 24 hours to get complete sulfuration, and a concentrate representing [illegible] by weight of original sample taken was obtained. [illegible] assayed:

0.[illegible] oz. Au
[illegible] Ag
17.[illegible] Pb
2.3% Cu
0.4% Zn

as shown by assay #7761. This shows a recovery of 17.8% of the Au, [illegible] of the Ag, 21.8% Pb, 2.6% of the Cu.

The total combined extraction was practically all the Au,
88.3% of the Ag
93.0% " " Pb
92.2% " " Cu

The screen analysis of the Ball Mill Feed is:

+ 10 mesh [illegible]
- [illegible] mesh [illegible]
- 65 mesh [illegible]
- 100 mesh [illegible]
- 200 mesh [illegible]
[illegible]

The oxides in this ore were very slow to be sulphidized, and the reagent consumption was very high. By making a study of this ore and rotex-ing it, a reduction in chemical consumption can probably be

made by not attempting to float until complete conditioning has been effected.

It is very important that tables be used in the treatment of this ore, as greatest recovery can be made by this method. Flotation, however, must be considered for best results.

Attached data sheet gives all assays and recoveries.

Yours respectfully,

DENVER EQUIPMENT CO.

By F. B. Shelby.

FEB/JH

SPRING CREEK MINE

SPRING CREEK MINING DISTRICT
GILA COUNTY
ARIZONA.

Property

The property consists of five unpatented mining claims.

Location

The Spring Creek group of claims is located on Spring Creek in the Spring Creek Mining Dostrict, in the northern end of the Sierra Ancha Mountains in Gila County Arizona. The mine is eight miles from Young, the nearest post-office and 88 miles from Globe the nearest shipping point,- mountain road to Young and from there to Globe improved road.

Geology

Prevailing country rock is Pinal schist of Algonkian age, locally it is mainly sericitic schist with some intercalated greenstones, which are schistose. Some of the schist is quartzitic. Schistosity trends from N. 30°/60°E. and the dip is nearly vertical

The main vein strikes from N.60°/63°E. and dips 80°/83°S. and it is irregular both horizontally and vertically varying in width from few inches to as much as four feet. Known vein exposure is about 1,200'.

Vein minerals are quartz, limonite, cerrusite and copper carbonates with some residual sulphides-pyrite, chalcopyrite and galena,,carrying gold and silver. Oxidation products have run into the altered schist along side the quartz vein.

Ore Reserves

The ore shoots are lenticular horizontally and their vertical habit is considered the same,-constituted by a widening of the vein

Ore reserves indicated by developments and sampling, show possibility of blocking out over 2,000 tons of ore that will run about $25.00 per ton gross metal value with very little work, on the west side of Spring Creek, figuring only to the bottom of the winze in the main tunnel. There is no reason why there should not be developed many times this tonnage on development horizontally and on depth on the east and west side of Creek, in the main vein.

Test #7 - Heads (Calculated from products)

Gold	0.446 oz.
Silver	11.16 oz.
Lead	7.25 %
Copper	0.94 %

Concentrates, 13.15% by weight, assaying:

Gold	3.03 oz.
Silver	72.63 oz.
Lead	46.0[illegible]%
Copper	4.7[illegible]%
Insol	12.6[illegible]
Sulphur	8.2[illegible]%
Iron	10.4[illegible]
Zinc	0.1[illegible]

Tailings:

Gold	0.05 oz.
Silver	1.25 oz.
Lead	1.35 %
Copper	0.55 %

Extraction:

Gold	88.2[illegible]%
Silver	8[illegible]%
Lead	85.9[illegible]%
Copper	60.6[illegible]%

Figuring, gold at $19.00 per ounce; silver at 50¢, deducting 1½% off the wet assay of the lead, figuring that the smelter would pay for 90% of this at New York quotations, less 1½¢, that 0.75% would be deducted from the copper assay, and that the balance of the copper paid for at New York quotations, less 6¢ per pound, we figure that the concentrates from test 2 would have a valuation per ton of $148.19 and would return $23.23 per ton of crude ore. The concentrates from test 5 would have a valuation of $149.76 per ton and would return $20.66 per ton of crude ore. The concentrates from test 7 would have a valuation of $148.02 and would return $19.48 per ton of crude ore. This is without deducting hauling, freight and smelting charges.

On our report sheets will be found the reagents used in all the tests. These are rather a large amount. Part of this is due to the fact that there is a good deal of oxidized lead and copper in the sample and also we find that quite a little more reagents are used in test work than in actual mill practice. On the whole, considering the nature of the ore, we consider that the results from these three tests, specially quoted, can be considered very fair.

The ore responds well to treatment, and altho the tailings are higher than we should like to see them, the extraction of the gold, silver and lead is quite up to the average of what could be expected from milling oxidized ore.

We have illustrated these two flowsheets diagrammatically on the blue prints attached to the test report. The best results, using the first flowsheet, where tabling precedes flotation is in Test #2, which were as follows:

Test #2 - Heads (Calculated from products)

Gold	0.45 oz.
Silver	11.76 oz.
Lead	7.9%
Copper	0.96%

Concentrates, 14.14% by weight, assaying:

Gold	2.91 oz.
Silver	70.68 oz.
Lead	47.36 %
Copper	4.70%

Tailings:

Gold	0.045 oz.
Silver	2.05 oz.
Lead	1.4 %
Copper	0.35%

Extraction:

Gold	91.42%
Silver	83.04%
Lead	84.78%
Copper	85.36%

The best results, by using the second flowsheet, in which flotation was followed by tabling, are obtained in tests 5 & 7. The only difference in these two tests are that in Test 5, potassium ethyl xanthate was used and in test 7, potassium amyl xanthate was used.

Test #5 - Heads (Calculated from products)

Gold	0.49 oz.
Silver	11.00 oz.
Lead	7.71 %
Copper	0.96 %

Concentrates, 13.65% by weight, assaying:

Gold	3.20 oz.
Silver	70.95 oz.
Lead	4[illegible].91
Copper	4.[illegible]

Tailings:

Gold	0.06 oz.
Silver	2.0 oz.
Lead	1.5 %
Copper	0.41%

Extraction:

Gold	80.[illegible]%
Silver	83.[illegible]%
Lead	83.3 %
Copper	83.19%

Mr. L. E. Foster #5 C-1183 Test 718

1 - 3 x 3 Denver conditioner complete with tank, belt driven type	1500	3	351.00
1 - 6-cell 18" Denver Sub-A (Fahrenwald) flotation machine belt driven type	9000	15	1800.00
1 - #3 Wilfley concentrating table for pilot work- - - - - - - - - - - - - -	3100	1	500.00
3 - Denver Duplex oil feeders, belt driven type - - - - - - - - - - - - - -	300	1/4	240.00
2 - Denver Simplex oil feeders belt driven type - - - - - - - - - - - - - -	100	1/4	100.00
1 - 3 x 3 Denver dry reagent feeder - belt driven type- - - - - - - - - - -	300	1/3	150.00
Totals	14700	183 3/3	$17393.00

As an alternate for the belt driven Denver conditioners and Denver Sub-A (Fahrenwald) flotation machines, we wish to quote on the motor driven type of these machines:

1 - 3 x 3 Denver conditioner complete with tank, motor driven type, weight 1300 lbs., 3 HP, price- - - - - - - - - - - - $ 401.00

1 - 6-Cell 18" Denver Sub-A dual motor drive type, weight 11100 lbs., 13 H.P., price- - - - - - - - - - - - - 3100.00

If this alternate is used, you will deduct from the above total - 21000 lbs., 33 H.P. - - - - - $4000.00, as there are two of each of these machines, and to the total so obtained you will add 2600 lbs., 33 HP, - - - - - [illegible], as you will use two of each of the "motor" driven machines in their stead.

You will note that we have quoted you on the complete machinery for 100 tons per day.

In order that you could make comparative figures, we have totaled where the equipment was the same for each size mill. On the 35 or 50 ton plants we did not quote on any filter equipment, but for the 100 ton plant - such equipment is essential. The following, therefore, covers such equipment for your 100 ton mill:

1 - 18 ft. diameter by 6 ft. thickener complete with feed tank overflow launder and diaphragm pump. This is F.O.B. Denver. The weight is 7330 lbs., 1 HP, price- - - - - - - - - - - - $1900.00

1 - 4 ft. 4 leaf American filter having filter area of 88 sq. ft., belt driven, weight 6000 lbs., 1 HP- - - - - - - - - - 1950.00

1 - 16" x 30" receiver, 100 lbs.,- - - - - - - - - - - - - - - - - - 48.00

1 - 18" x 30 foam trap, weight 70 lbs. - - - - - - - - - - - - - - 40.00

1 - 10" x 4" vacuum pump having capacity of 101 cu. ft. per minute, weight 1400 lbs., 7½ H.P., price - - - - - - - 430.00

Mr. L. E. Foster #4. C-1185 Test 718

1 - 5 x 5 Denver conditioner complete with tank, motor driven type, weight 1330 lbs., 1 HP, price- - - - - - - - - - -$335.00

1 - 6-cell 15" Denver Sub-A (Fahrenwald) flotation machine, motor driven type, weight 9300 lbs., 6½ H.P. - - - - -1800.00

Each of these machines appear in the preceding list twice, and have a total weight of 19,300 lbs., requiring 15 HP, price $3370.00 These totals can be deducted from the preceding total and then add to the new totals 21,900 lbs., 15 H.P., - - - and $4070.00; these being the totals for two of each of the same machines of the motor driven type.

All prices given you in this quotation are F.O.B. Denver.

You will note that in this quotation we have quoted you on the complete machinery for handling 50 to [illegible] your ore per day.

The following is equipment recommended for handling - 100 tons per day:

In this quotation we will take the total weight, horsepower, and price for the Grizzly, screen, elevator, and apron feeder as given in our quotation for 25 tons per day. We feel that these parts may be used equally well.

Material	Weight lbs.	Horse power	Price
Grizzly, elevator, screen and apron feeder- - - - - - - - - -	3375	3	$ 1020.00
1 - [illegible]-1 Universal crusher having a capacity of 100 tons per 10 hrs.	[illegible]	32	1400.00
1 - [illegible] Marcy ball mill, pulley driven type- - - - - - - - - - - - - - -	47000	85	5700.00
18000 lbs. assorted steel balls	18000	-	900.00
1 - Trommel screen attached to ball mill- - - - - - - - - - - - - - -	[illegible]	-	150.00
3 - [illegible] Wilfley concentrating tables	[illegible]	3	1000.00
1 - [illegible] Denver elevator, belt and bucket type- - - - - - - - - - -	2500	4	600.00
1 - 34" Akins classifier belt driven	7000	2	1330.00
Alternate:			
- [illegible] Dorr classifier	4500	2	1480.00
1 - [illegible] Denver conditioner complete with tank, belt [illegible] type- - -	[illegible]	2	351.00
1 - 6-cell 18" Denver Sub-A (Fahrenwald) flotation machine belt driven- -	[illegible]	15	1800.00

Mr. L. F. Foster #2 C-1183 -Test 718

Machine	Weight lbs.	Horse-Power	Price
[illegible] equipped with sides 6" high, belt driven type- - - - - - - - - - - - - - -	775	1/2	$350.00
1 - [illegible] Marcy ball mill, pulley driven type- -	13500	20	3405.00
5000 lbs. assorted steel balls for above mill- - - - - - - - - - - - - - - - - -	5000		350.00
1 - trommel screen attached to ball mill	400		150.00
1 - [illegible] Wilfley concentrating table	3100	1	500.00
1 - [illegible] Akins classifier- - - - - - - - - - - -	3100	1	550.00
1 - [illegible]" Denver elevator, belt and bucket type- -	1[illegible]0	3	200.00
1 - 4 x 4 Denver conditioner, complete with [illegible] belt driven type- - - - - - - -	850	1/3	303.50
1 - 4-Cell 1[illegible]" Denver Sub-A (Fahrenwald) Flotation machine, belt driven type	[illegible]	5½	900.00
1 - 4 x 4 Denver conditioner complete with [illegible], belt driven type- - - - - - -	850	1/3	303.50
1 - 4-Cell 1[illegible]" Denver Sub-A (Fahrenwald) Flotation machine, belt driven type	5000	5½	900.00
1 - [illegible] Wilfley pilot table- - - - - - - - - - -	3100	1	500.00
2 - Denver [illegible] oil feeders, belt driven type- -	300	1/4	160.00
1 - Denver [illegible] reagent feeder, belt driven type- - - - - - - - - - - - - - - - - - - -	250	1/8	135.00
1 - Denver Simplex oil feeder belt driven type- -	50	1/8	50.00
Total- - - - -	31405	54 1/8	$9130.00

As alternates on the above conditioners and flotation cells we wish to give the following information with regard to the direct motor driven type. These can be inserted in place of the same as machines given in the foregoing list.

1 - 4 x 4 Denver conditioner, motor driven type, weight 850 lbs., [illegible] Horse Power, price- $273.50

1 - 4-Cell 1[illegible]" Denver Sub-A (Fahrenwald) Flotation machine, motor driven type, weight 5000 lbs., [illegible] H.P., price 1000.00

You will note from the above information that we have given you the complete machinery necessary for properly handling 25 tons of ore per day.

Equipment recommended for a mill - 50 tons per day:

Machine	Weight lbs.	Horse power	Price
The primary crushing equipment consisting of a Universal crusher, the screen, elevator, and apron feeder will be the same as that given for the 25 ton a day mill. The totals - - - - - - - - - - -	8875	16	$1995.00
1- #54 Marcy ball-mill, pulley driven type- - - - - - - - - - - - - - - - - - -	24000	25	3785.00
10000 lbs. assorted steel balls - - -	10000	-	500.00
1 - 4x4 Trommel screen attached to ball-mill- - - - - - - - - - - - - - - - - -	400	-	150.00
1 - #3 Wilfley concentrating table- - -	3100	1	500.00
1 - 8" Denver elevator, belt and bucket type- - - - - - - - - - - - - - - - - -	2000	3	335.00
1 - 30" Akins classifier- - - - - - - - -	3300	1½	840.00
1 - 5 x 5 Denver conditioner complete with tank, belt driven - - - - - - - - - -	1250	1	285.00
1 - 8-cell 18" Denver Sub-A (Fahrenwald) flotation machine, belt driven type	8400	8	1350.00
1- 5 x 5 Denver conditioner complete with tank, belt driven type	1350	1	285.00
1 - 8-cell 18" Denver Sub-A (Fahrenwald) flotation machine, belt driven type -	8400	8	1350.00
1 - #3 Wilfley concentrating table for pilot work- - - - - - - - - - - - - - - -	3100	1	500.00
2 - Denver Duplex oil feeders, belt driven type- - - - - - - - - - - - - - - - - -	200	1/4	160.00
1 - Denver Simplex oil feeder, belt driven type- - - - - - - - - - - - - - - - - -	80	1/8	50.00
1 - Denver dry reagent feeder, belt driven	270	1/8	125.00
Totals	74403	65	$13,000.00

As an alternate on the conditioners and flotation machines above, we wish to quote on the motor driven type. These weights and prices can be inserted in the preceding list where these items appear.

Mr. L. E. Foster - #5 Order C-1185 Test 718

1 - #1 blower, weight 80 lbs., 1/6 H.P. - - - - - - - - - - - - - $37.00

1 - #1 centrifugal pump, weight 100 lbs., 1 H.P.- - - - - - - - 47.35

All prices on this filter equipment are f.o.b. Hazelton, Pa.

This equipment, we are positive, will prove the most satisfactory for the handling of your ore and will also be the most economical, whether considered from power consumption or from operating difficulties. These features have been conclusively proved by all of our customers, and are substantiated by their constant repeat orders.

In all of the foregoing quotations the prices are F.O.B. Denver, with the exception of filter equipment. The terms which we are giving you are the same as we give all large mining companies - and they are - one-third with the order and balance when machinery is ready for shipment.

We are enclosing our blueprint which gives a straight line drawing of the flowsheet for your mill. We are sure in that this will be very clear and at the same time will serve for you in visualizing this equipment in place.

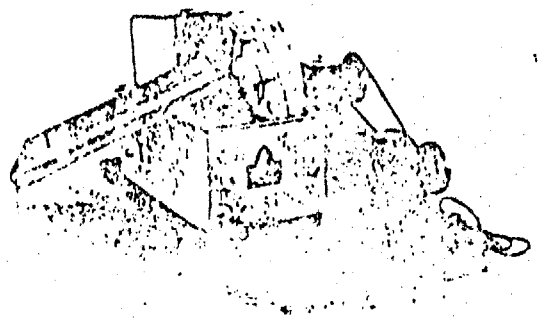
Thanking you for this opportunity of quoting you on this equipment, and assuring you that the receipt of your order will be a pleasure to us, and that this equipment will prove most satisfactory to you in every respect, we are,

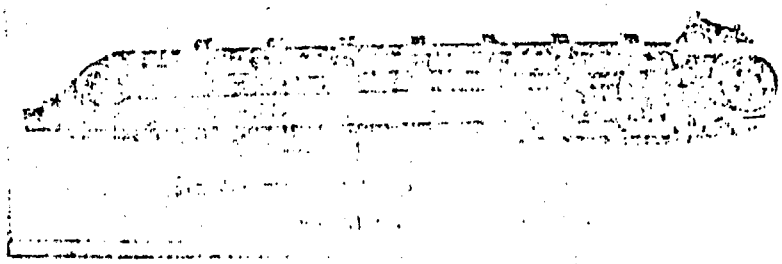
Very truly yours,

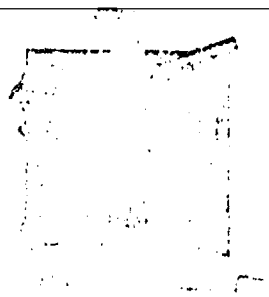
DENVER EQUIPMENT CO.

By W. E. Gruber.

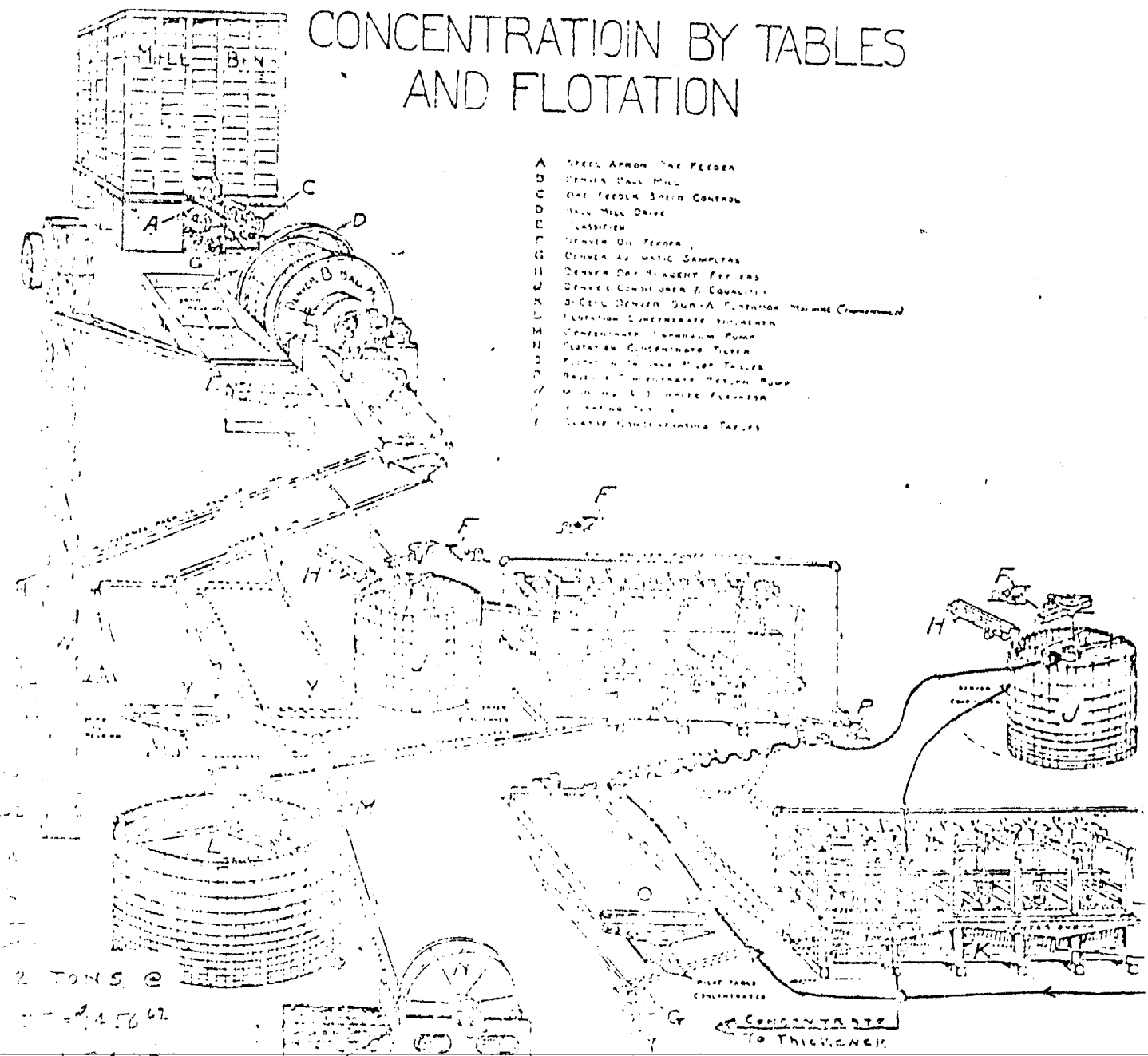
EMP/H







CONCENTRATIOIN BY TABLES AND FLOTATION



Spring Creek

April 6, 1929.

Mr. L. F. Foster,
P. O. Box 1107,
Globe, Arizona.

Reference - Test Report on
Our Order C-1135
Test 718

Dear Mr. Foster:

Under separate cover we send you test report with data on the sample of ore which you sent in from the Spring Creek Mine.

While you were here you said that you would appreciate our quotation on the proper equipment for a mill to handle 35 tons of this ore per day, 50 tons per day, and also 100 tons per day.

The following is our quotation covering this necessary equipment which we feel positive will handle this ore most successfully and in accordance with the results which we obtained on this test.

The equipment which we would recommend is as follows; giving you the weight and horsepower required, and price F.O.B. Denver for 35 ton mill.

Machine	Weight	Horse-power	Price
1 - 3' x 5' Grizzly - - - - - - - - - - - - -	[illegible]		$ 75.00
1 - 9" x 12" [illegible]-X Universal crusher having capacity of 35 to 100 tons - 30 r.p.m. - - - - - - - - - - - - - - - - - -	3500	13	975.00
1 - 3' x 5' single surface screen covered with proper mesh screen cloth - - - - -	900	1/3	385.00
1 - Screen of the same - as an alternate - having double surface - - - - - - - - -	[illegible]	5/8	450.00
1 - 8" bucket elevator - 30 ft. center to center for returning screen oversize	1500	2	300.00
1 - 24" steel apron feeder for feeding mill bin to ball mill. This to [illegible] for up to 150 tons per day [illegible]			

TELEPHONE TR 3404

FORM 8 10.M 3.29

METALLURGICAL DEPARTMENT

Southwestern Engineering Corporation

LOS ANGELES, CALIFORNIA

METALLURGICAL TEST

Date Sample Received May 15th, 1929. Test by Tabling

Ore from Mr. L.E. Foster, Spring Creek Mining Co. Date May 17, 1929.

Description of Sample Sulphides, oxidized with free gold Weight Ore Tested 5000 grams

Lot 3218 Test 1 Mesh -28 Time of Test _____ MINUTES Ratio of Liquid to Solids _____

PRODUCTS	Weight per Cent	ASSAYS							
		oz. Gold	oz. Silver	% Copper	% Lead	% Zinc	% Iron	% Insol.	
Assayed Head		1.02	10.80	.23	8.75	trace			
Calculated Head	100.00	.862	10.13	.20	8.37				
Hand Table Concs.	5.36	9.16	47.63	1.75	66.07				
Hand Table Mids.	5.00	2.40	63.90	3.70	33.70				
Hand Table Tail	89.64	.23	8.00	.71	1.52				
Combt. Concentrates Middling	10.36	5.07	46.84	2.54	50.31				

DISTRIBUTION—Showing per cent of total metal contained in different products.

	Weight per Cent	Gold	Silver	Copper	Lead	Zinc	Iron	Insol.	
Calculated Head	100.00	100.00	100.00	100.00	100.00				
Hand Table Concs.	5.36	56.96	25.02	40.39	42.34				
Hand Table Mids.	5.00	13.92	31.67	13.36	19.03				
Hand Table Tail	89.64	29.12	63.11	70.88	37.73				
Combt. Concentrates Middling	10.36	70.08	46.09	29.13	62.28				

Reagents used pounds per ton of ore Redwood 4 mesh sample to -28 mesh in pulverizer. Hand. Retabled middling. Combined concentrates, retabling the middling from the retabling operation.

Remarks: _____

Southwestern Engineering Company, Signed _____

Los Angeles, Calif.

Sizing Tests on Tailings.

Mesh	Test #1 Table Tailing	Test #2 Flotation Tailing	Test #3 Flotation Tailing	Test #4 Final Tailing	Test #5 Final Tailing
-28 + 35	14.2%				
-35 + 48	17.5				
-48 + 65	15.0	1.2%	.6%	.4%	1.1%
-65 +100	12.0	6.0	2.1	2.3	1.7
-100+150	8.0	7.0	5.5	5.5	3.8
-150+200	5.5	11.0	7.0	7.2	6.0
-200	27.8	74.8	84.3	84.6	87.4

TELEPHONE TR 3404 FORM S 10-M 3-29

METALLURGICAL DEPARTMENT

Southwestern Engineering Corporation

LOS ANGELES, CALIFORNIA

METALLURGICAL TEST

Regrinding and Flotation and

Date Sample Received May 15, 1929. Test by Tabling of Primary Table Tailing.

From Mr. L.L. Foster, Spring Creek Mng. Co., Date May 18, 1929.

Description of Sample Sulphides, oxidized with trace sol. Weight Ore Tested 700 grams.

No. 3218 Test 4 Mesh 4% 65 Time of Test 15-15 Ratio of Liquid to Solids 4:1

84.6% -200

PRODUCTS	Weight per Cent	ASSAYS oz. Gold	oz. Silver	% Copper	% Lead	% Zinc	% Iron	% Insol.
Assayed Head		1.02	10.00	.03	8.75	trace		
Calculated Head	100.00	.892	10.46	.376	8.32			
Prim. Table Conc.	5.36	9.16	47.60	1.75	66.00			
Prim. Table Tailing	5.00	2.40	43.00	3.39	33.39			
Sec. Table Tailing	(89.64)	.78	6.00	.71	3.52			
Wagner Flot. Conc.	6.28	3.16	58.20	3.64	34.71			
Wagner Table Conc.	.45	3.60	15.20	2.55	11.44			
Wagner Table Tailing	88.91	.66	2.40	.06	1.06			

CONCENTRATION Showing per cent of total metal contained in different products.

	Weight per Cent	Gold	Silver	Copper	Lead	Zinc	Iron	Insol.
Calculated Head	100.00	100.00	100.00	100.00	100.00			
Prim. Table Conc.	5.36	55.04	24.48	10.38	42.78			
Prim. Table Tailing	5.00	13.46	20.00	16.53	20.[illegible]			
Sec. Table Tailing	(89.64)	—	—	—	—			
Wagner Flot. Conc.	6.28	22.25	34.00	26.09	26.20			
Wagner Table Conc.	.45	1.62	[illegible]	1.[illegible]	[illegible]			
Wagner Table Tailing	88.91	7.41	18.00	41.50	10.[illegible]			
Tot. Concts. & Tails.	17.09	92.66	71.00	53.50	58.44			

Reagents used: pounds per ton of ore: Ag-ball mill: 6.4 sodium sulphide, .5# P.T. Oil. Conditioned 15 minutes in flotation machine. Floated with .12 lbs. Yarrow Pine Oil.

Remarks: Tabled flotation tailing.

Assayer PAUL F. & CO., S.W. ENGR. CORP. Signed

TELEPHONE TR 3404

FORM 8 10-H 2-29

METALLURGICAL DEPARTMENT

Southwestern Engineering Corporation

LOS ANGELES, CALIFORNIA

METALLURGICAL TEST

Date Sample Received May 15, 1929. Test by Tabling, Flotation & Tabling of Flotation tailing.

Ore from Mr. L.E. Foster, Spring Creek Mining Co., Date May 23, 1929.

Description of Sample Sulphides, oxidized with free gold Weight Ore Tested 10,000 grams

Lot 2218 Test 5 Mesh Sands -20 mesh Time of Test 15 - 15 Ratio of Liquid to Solids 4 : 1

Regrind Sand Table -35 mesh Cleaner 7 min.

Slimes 1.1%+35, 37.4%-200.

PRODUCTS	Weight per Cent	ASSAYS oz. Gold	oz. Silver	% Copper	% Lead	% Zinc	% Iron	% Insol.
Assayed Head		1.02	10.90	.03	3.74	trace		
Calculated Head	100.00	.008	2.60	.01	7.92			
Sand Table Concts.	7.23	6.83	47.47	2.00	32.90			
Regrind Sand Table Conc.	2.30	4.82	48.30	3.00	35.05			
Flotation Concts.	5.18	2.78	52.20	4.00	30.80			
Slime Table Concs.	2.45	.65	7.70	1.40	4.30			
Slime Table Tailing	82.84	.05	2.00	.42	.27			
Sand. Sand Table Concs. & Flot. Conc.	14.71	5.11	50.77	2.90	47.62			

DISTRIBUTION—Showing per cent of total metal contained in different products.

	Weight per Cent	Gold	Silver	Copper	Lead	Zinc	Iron	Insol.
Calculated Head	100.00	100.00	100.00	100.00	100.00			
Sand Table Concs.	7.23	61.37	43.24	13.30	30.14			
Regrind Sand Table Conc.	2.30	13.72	10.42	3.55	10.16			
Flotation Concts.	5.18	17.82	32.03	25.63	20.14			
Slime Table Concs.	2.45	1.97	3.00	4.42	1.42			
Slime Table Tailing	82.84	5.10	17.70	43.00	10.14			
Sand. Sand Table Concs. & Flot. Conc.	14.71	92.91	90.16	52.54	92.4			

Reagents used pounds per ton of ore: At ball mill 7.1# sodium sulphide, .825 P.E. Oil, Conditioned 15 minutes in K-S-K flotation machine. Rougher .1# Yarmor Pi Oil.

Remarks: Tabled to 20 mesh. Reground table middling to 35 mesh (34.27% by weight). Tabled reground middlings. Reground sand table tailing, floated 92.86% flotation tailing. Combined flotation concts. once. Slime table con

PARKER & CO. & S.W. ENGR. CORP. Signed: [illegible] low grade to include in combined concts.

TELEPHONE TR 3404

FORM S 10-M 2-29

METALLURGICAL DEPARTMENT

Southwestern Engineering Corporation

LOS ANGELES, CALIFORNIA

METALLURGICAL TEST

Date Sample Received May 15, 1929. Test by Regrinding, amalgamation and flotation of primary table tailing

Ore from Mr. L.E. Foster, Spring Creek Mng. Co. Date May 17, 1929.

Description of Sample Sulphides, oxidized with free gold Weight Ore Tested 700 grams.

Lot 2218 Test 2 Mesh 1.2%-65 74.8%-200 Time of Test 60-15-20 MINUTES Ratio of Liquid to Solids 4:1

PRODUCTS	Weight per Cent	ASSAYS							
		oz. Gold	oz. Silver	% Copper	% Lead	% Zinc	% Iron	% Insol.	
Assayed Head		1.02	10.80	.83	8.75	trace			
Calculated Head	100.00	.80	9.66	.89	7.93				
Hand Table Conct.	5.36	9.14	47.65	1.73	66.09				
Hand Table Mid.	5.00	2.40	43.90	3.39	33.39				
Hand Table Tail	89.64	.28	6.00	.77	3.52				
Amalgam (Mgs. Au. Ag.)		.73	.70						
Copper Flotation Concentrates	7.07	1.36	44.50	2.87	24.45				
Flotation Tail.	82.57	.08	2.10	.52	[illegible]				
Table Conct.	17.43	4.03	45.30	2.67	39.52				
Table Mid.									

DISTRIBUTION—Showing per cent of total metal contained in different products.

	Weight per Cent	Gold	Silver	Copper	Lead	Zinc	Iron	Insol.	
Calculated Head	100.00	100.00	100.00	100.00	100.00				
Hand Table Conct.	5.36	60.94	26.45	10.37	44.71				
Hand Table Mid.	5.00	14.96	22.73	18.95	21.07				
Hand Table Tail	89.64	--	--	--	--				
Amalgam									
Copper Flotation Concts.	7.07	11.93	32.59	22.68	21.32				
Flotation Tail.	82.57	8.18	17.93	48.00	18.[illegible]				
Table Concts.	17.43	87.77	81.77	82.00	87.30				

Added pounds per ton of ore on table tailing: 100 grams mercury, agitated 1 hour in bottle at 4:1 dilution. Conditioned amalgamation tailing 15 minutes in flotation machine with:- .40 lbs. P.E. Oil, 0.36 lbs. sodium sulphide.

Remarks: Floated with .09 lbs. Yarmor Pine Oil.

~~PHELPS & COMPANY~~ Signed

SOUTHWESTERN ENGR. CORP.

TELEPHONE TR 3404

FORM 8 10-M-2-29

METALLURGICAL DEPARTMENT

Southwestern Engineering Corporation

LOS ANGELES, CALIFORNIA

METALLURGICAL TEST

Date Sample Received May 15, 1929. Test by Regrinding and Flotation of Primary Table Tailing.

Ore from Mr. L.E. Foster, Spring Creek Mng. Co. Date May 17, 1929.

Description of Sample Sulphides, oxidized with free gold Weight Ore Tested 700 grams.

Lot 2218 Test 3 Mesh 6%+65 84.8%-200 Time of Test ~~15 10 (10) (10)~~ (10) (10) MINUTES Ratio of Liquid to Solids 4:1

PRODUCTS	Weight per Cent	ASSAYS							
		oz. Gold	oz. Silver	% Copper	% Lead	% Zinc	% Iron	% Insol.	
Assayed Head		1.02	10.00	.33	8.75	trace			
Calculated Head	100.00	.81	9.22	.337	7.51				
Sand Table Concentrates	5.36	2.16	47.65	1.73	66.29				
Sand Table Middling	5.00	2.40	43.00	3.39	33.32				
Sand Table Tailing	(89.64)	.30	6.00	.71	3.52				
Dougher Flot. Concentrates	9.04	1.66	33.30	3.37	16.04				
Flotation Tailing	80.60	.07	1.00	.36	1.06				
Comb. Concts. & Table Mdg.	19.40	3.27	40.00	1.22	21.34				

DISTRIBUTION—Showing per cent of total metal contained in different products.

	Weight per Cent	Gold	Silver	Copper	Lead	Zinc	Iron	Insol.	
Calculated Head	100.00	100.00	100.00	100.00	100.00				
Sand Table Concentrates	5.36	60.77	27.40	10.62	47.13				
Sand Table Middling	5.00	14.84	23.63	10.77	22.31				
Sand Table Tailing	(89.64)	—	—	—	—				
Dougher Flot. Concts.	9.04	17.13	32.40	35.55	19.20				
Flot. Tailing	80.60	7.06	16.49	53.81	1.37				
Comb. Concts. & Middling	19.40	93.00	85.52	66.1[illegible]	39.[illegible]				

Reagents used pounds per ton of ore: ~~At ball mill: 7.5 lbs. sodium sulphide. Conditioned 15 min. in flotation machine. 1st series: .14 lbs. potassium xanthate, .09 lbs. Yarmor pine oil. 2nd series: conditioned 10 min. with 2.43 lbs. so~~

Remarks: ~~1st sulphide, floated with .25 lbs. P.E. Oil, .05 lbs. Yarmor Pine~~ (
2nd series: conditioned 10 min. with 2.43 lbs. sodium sulphide, floated wi
.5 lbs. P.E. Oil, .5 lbs. Yarmor Pine Oil.

Answer ~~Primary Ball Mill Tailing~~. Signed

SPRING CREEK MINE

General

The mine is in very good shape to start production on doing a small amount of preliminary work, and the camp can be put in shape with little expense. The mill can be put in efficient operation on the ores by adding flotation and power equipment and repairing some of the equipment now in mill.

Spring Creek runs all the year and in sufficient quanity so there will not be any lack of water for milling and domestic purposes.

OPERATIVE COSTS

The per ton cost for mining, milling, transportation, smelting, taxes and overhead should run about $8.00 which would leave a net operative profit running about $12.00 per ton.

It is estimated that witha capital investment of $4,000/ $4,500 and an operative funds of $1,000/ $1,500 this property can be put on paying production with a resultant very substancial net profit.

Capital investment will cover repair and additions to mill, also repair of roads and camp, starting stopes in winze in mine, and miscellaneous equipment and tools.

L. E. Foster, E.M.

Sept. 5,1937.

Present metal market

Gold	$35.00 Oz.
Silver	0.7757 Oz. U.S.Mints
Lead	0.065 # New York
Copper	0.14 #

RECONNAISSANCE OF A PYRITIC DEPOSIT NEAR THE SPRING CREEK LEASING CO. DEVELOPMENT ON SPRING CREEK.GILA COUNTY.ARIZONA.

Location

This deposit is located in a canyon tributary to Spring Creek and is reached by about a mile and a quarter of trail running north - westerly from the Spring Creek mill.The nearest road is that of the Spring Creek lease which terminates at the mill at the junction of Spring Creek and Bryant canyon. The road connects with an excellent mountain highway eight miles east of the above point.The distance to Globe,Ariz. the nearest shipping point is 88 miles from the Spring Creek mine.To this would be added a mile and one half of road ~~that~~ which it would be necessary to construct from the Spring C reek mill to the prospect under consideration.There are no steep grades and relativel little rock work would be encountered in the course of this construction.

Topography.

The deposit lies in the Mountain Physiographic province of Arizona,close to the boundary of this province with the Colorado p plateau.Flat topped ridges alternate with deep canyons with moderately steep to precipitous and abrupt flanks.The type topography is modified by the fact that the deposit is located in a canyon close to the point where it debouches to Spring Creek,the main line of drainage.Consequently the canyon widens and softens in outline at this point.

General Geology.

The prevailing country rock of the area is schist and greenstone of pre-Cambrian age.These schists are both meta-sedimentary and meta-extrusive and are highly altered by diastrophic and orogenic forces.The schist in which the deposit lies is largely chloritic schist with a minor amount of quartz sericite schist.The schistosity strikes about N 30 E.Quartzite reefs of bold outcrop cut the terrain striking parallel with the schistosity about a mile to the south of the deposit.

is a belt of schistose quartz porphyry. Near the center of this mass the schistosity is not pronounced and the rock has a definitely porphyritic aspect. The schist and greenstone complex has been truncated by pre-Cambrian erosion and a conglomerate of varying thickness deposited upon it. Superimposed upon the conglomerate is a quartzitic sandstone. These probably represent the Scanlon conglomerate and the Pioneer sandstone of the Apache group.

Ore Deposits.

The ore deposit is a pyritic replacement lense, of unknown vertical or horizontal extent, in chloritic schist. The replacement nature of the deposit is obvious from the structure of the ore, which consists of pyrite with a subordinate amount of quartz which preserves the cleavage of the schist. A small amount of chalcopyrite is indicated by the staining of the outcrop by copper salts.

The outcrop of the deposit is completely oxidized and collapsed and shows the usual phenomena of strong leaching by sulphuric acid bearing supergene solutions. The iron has largely migrated leaving a siliceous skeleton of ferrugineous sand. The outcrop appearance is that of gossan developed by the oxidation of aggregated pyritic ore containing little copper.

The deposit is opened by two workings only a few feet apart that practically duplicate exploration. An adit 75 feet (paced) long has been driven on a course N 50 W. This cuts the main lense close to the face, in the footwall of a low angle fault striking E and dipping 20 degrees to the North. The ore is cut off above the fault but the displacement is slight and ore in the adit on the footwall side of the fault is in place. A winze has been sunk on the ore at this point, but is caved and inaccessible. Dump material probably from this winze shows heavy pyrite and runs 0.12 Au 1.0 Ag 0.2% Cu. The oxidized

lense in the face of the adit shows about 8 feet of gossan on one side and about three on the other.

An incline driven on the dip of the lense about 45 degrees, is open to a point close to the face of the adit. The gossanized lense is visible thru out the incline. The lense shows as about 1.5 to 2 feet thru out the incline.. This width has been diminished and the dip flattened by oxidation collapse aided by surface creep. The occurance in the bottom of the incline appears to widen and to steepen in dip. The indicated center of the lense is to the South of the present workings. The upper limit of the sulphide zone should not be far below the collar of the winze.

The tenor of the primary ore is indicated by a sample taken of pyritic material from the dump. This sample carried 0.12 oz Au 1.0 oz Ag 0.2 % Cu.

Summary.

A small pyritic replacement lense of pre-Cambrian age occurs in chloritic schist of the same age. The dimensions of the lense are ~~xxx~~ unknown. The primary mineralization consists almost wholly of pyrite with a minute amount of chalcopyrite.

Conclusion.

The limited size, inaccessibility, and lack of commercial mineralization makes this prospect a poor exploration risk.

Benj. N. Webber

Benj. N. Webber, Geologist.

12/9/30

Geologic Reconnaisance of Diamond Butte

Haught Claim Tonto National Forest

Sierra Ancha Range, Gila County, Arizona

Benj. N. Webber, Geologist.

Reconnaissance of Diamond Butte.

Haught Claim. Tonto National Forest

The following is the result of observations made during five hours spent on the Property.

Location

The Haught Claims are owned by Alfred Haught, Young, Ariz., and located near at the foot of Diamond Butte in Spring Creek Canyon, about 5.5 miles down Spring Creek Canyon from the Spring Creek Mine. There are no roads to the area but it may be reached by saddle trail down Spring Creek Canyon(except in periods of high water.) It is said to be accessible by trail from Young, Arizona.

Topography

The topography is abrupt. Spring Creek Canyon deep at this point due to the emminence of Diamond Butte. The Canyon of Spring Creek at the foot of Diamond Butte is deeper than the average drainage way in this locality. Otherwise the topography is that of a deeply dissected plateau; flat topped hills alternating with deep canyons

General Geology

The Canyon of Spring Creek at this point is almost wholly in the pre- Cambrian basement, considered to be the Pinal schist, altho it varies considerably from the Pinal type as defined by Ransome.

The schist in the area south of Diamond Butte is of predominently igneous character and it is suggested to be predominently of metamorphosed andesite and andesitic extrusives of pre-Cambrian age. The pineplaned pre-Cambrian surface of the schist high on the canyon flanks is capped by Scanlon conglomerate.

Ore Deposits

The ore deposits may be integrated into two groups:- the so called 'Main Lead', and lateral showings of the same general character. Both are of hydrothermal replacement type and lie wholly within the

schist and greenstone.

The 'Main Lead' is exposed on the Copper Sulphurets Claim. Workings consist of several small cuts and two tunnels. The 'Lead' has been followed on the South side of canyon for a distance of 113 feet by the South Sulphurets tunnel. This tunnel shows sparse and erratic chalcopyrite in disseminated form throughout. The face of the drift is in slightly better showing than the lenghth of the tunnel; no aggregated ore is here exposed. The chalcopyrite occurs widely disseminated thru the country rock. The showing along the lenghth of the tunnel appears to be mush less than 1% of copper. In the face it is higher, possibly from 1.02%. 50 feet of trenching across the 'Lead' at the portal of the tunnel shows sparse and erratic mineralization. The absence or presence of an indicative gossan on the South side of the canyon is obscured by mantle and talus.

The Sulphurets North tunnel driven in the north side of the canyon parallel to the 'Lead' thru chloritic schist, shows practically no mineralization except an accasional spot of capping showing limonitic specks indicative of former disseminated sulphides. The tunnel was driven to cut the 'Lead' under a favorable showing but never reached its objective.

The Upper North Sulphurets tunnel cross cuts the 'Lead' at a depth of about 15 feet and here shows bunches of gossan, Kaolin, with jarosite and gypsum, indicative of small bodies of aggregated mixed sulphides with pyrite probably predominating. A width of about 20 feet of gossan is exposed in this tunnel near the portal. The cross cut was driven 135 feet but leaves the mineralized zone at about 30 feet from the portal and continues in barren country.

An outcrop in the vicinity of the upper tunnel shows about 10 feet of practically barren chloritic schist included between two zones of aggregate gossan, each about 2 feet in width. The outside walls of

these gossan zones are of light colored siliceous rhyolite, probably an altered rhyolite or rhyolite porphory believed to be the same age as the schist.

The 'Main Lead' where cut at a depth greater than that at which surface conditions obtain, shows a weak disseminated mineralization In the one place where the surface showing indicates the possibility of aggregate are, the deepest working has about 15 feet backs on the mineralized zone. The mineralized zone appears to dip at a high angle to the west but in the absence of definite walls could not be measured. Mineralization on the 'Main Lead' is chalcopyrite and pyrite with a tending for the pyrite to drop off laterally.

Ore bodies lateral to the main zone are small and of doubtful value. They show the same mineralization as the 'Main Lead' bodies with the development of considerable chalcocite which does not show in the principal zone of mineralization.

The topographic conditions are believed to be inimical to the development of any considerable chalcocite zone unless such enrichment took place before the deposition of the Scanlon conglomerate.

Resume

A mineralization zone is exposed intermittantly for several hundred feet. Indications point to small lenticular bodies of disseminated ore with one possibility of a small body of aggregated ore. The conditions favorable to development of any considerable chalcocite zone are wanting.

Conclusion

1. The primary disseminated chalcopyrite ore is of very low grade and indicated bodies are small. The value of the disseminated ore bodies is considered to be negligible.

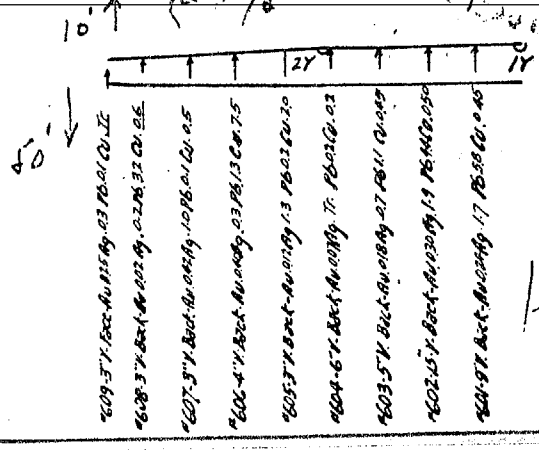
2. The presence of a small amount of aggregated ore is indicated by a small amount of gossan which probably formed from aggregated sulphides.

Recommendations

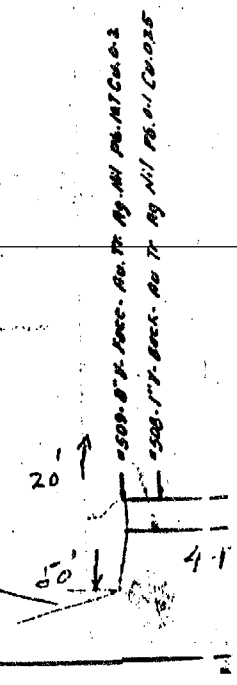
In consideration of the possibility of the development of a small amount of aggregated sulphides that may be amenable to treatment in the Spring Creek mill the following procedure is suggested.

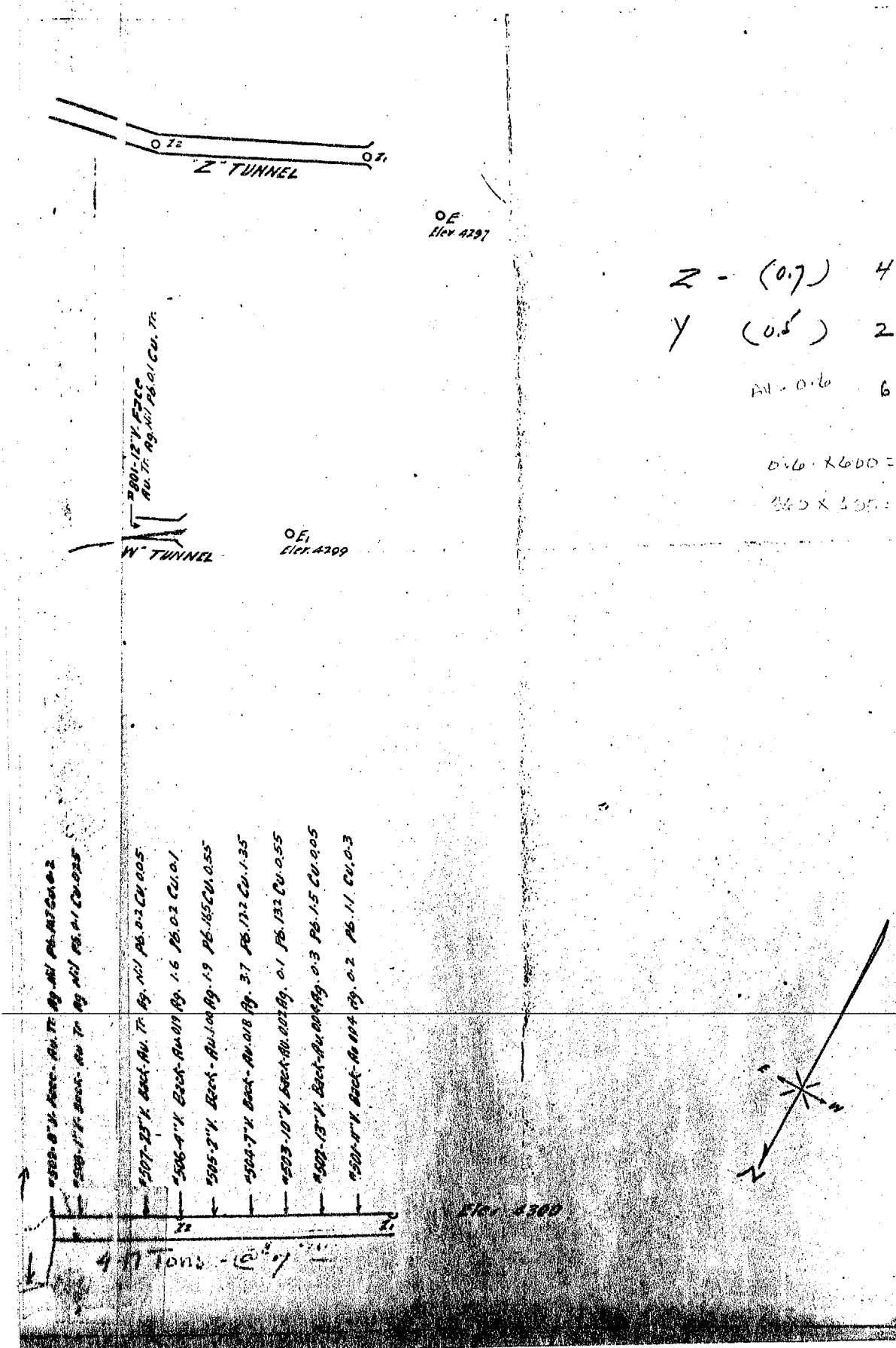
1. That a survey be made of the lower North Sulphurets tunnel.
2. That the gossanized outcrop of the so called 'Main Lead' be tied to the same survey. An accurate dip determination along the gossanized area will give the distance nedessary to cross cut under the possible downward extension of the gossanized area.
3. That the possibility of cross cutting from the North Lower Sulphurets tunnel be considered from the results of the above suggested survey.

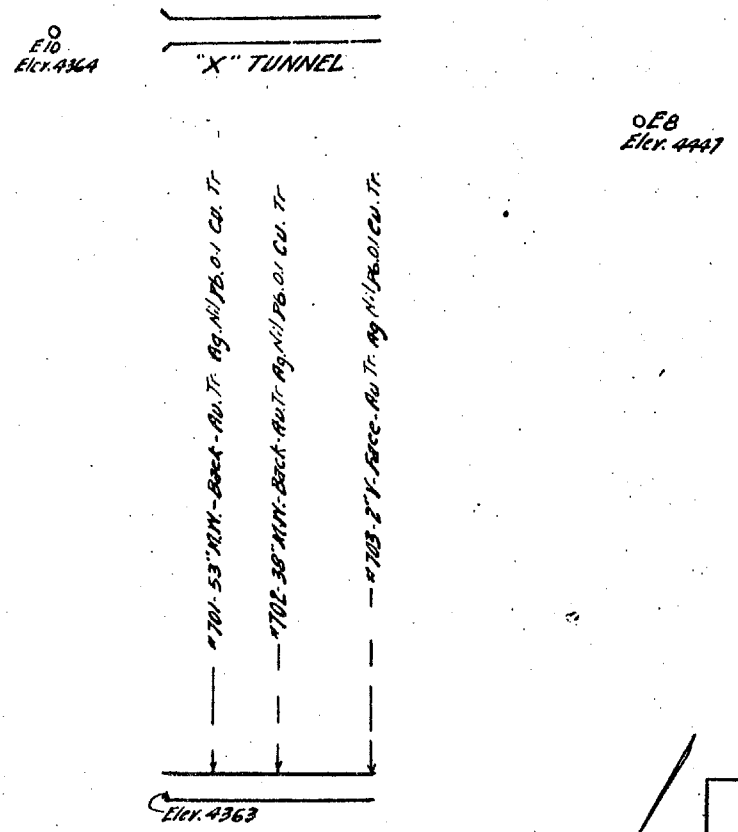
218 Tons
@ $18.00



Elev 4300




Z TUNNEL
Z2
Z1
E
Elev. 4297
#801-12" V. Fccc
Au. Tr. Ag. Nil Pb. 0.1 Cu. Tr.
W TUNNEL
E1
Elev. 4299
#507-23" V. Back-Au. Tr. Ag. Nil Pb. 0.2 Cu. 0.05
#506-4" V. Back-Au. 0.19 Ag. 1.6 Pb. 0.2 Cu. 0.1
#505-3" V. Back-Au. 1.00 Ag. 1.9 Pb. 1.85 Cu. 0.55
#504-7" V. Back-Au. 0.18 Ag. 3.7 Pb. 13.2 Cu. 1.35
#503-10" V. Back-Au. 0.02 Ag. 0.1 Pb. 13.2 Cu. 0.55
#502-13" V. Back-Au. 0.04 Ag. 0.3 Pb. 1.5 Cu. 0.05
#501-8" V. Back-Au. 0.14 Ag. 0.2 Pb. 1.1 Cu. 0.3
Elev. 4300
Z2
Z1
N
Z - (0.7) 417 @ 7.70 32
Y (0.5) 218 @ 15.00 3
Au - 0.6 635 @ $10.00 PER T. 6
0.6 X 600 = 360
360 X 3.05 =
ASSAY PLAT
BALD EAGLE MINING CO.-SPRI
DIVISION-YOUNG, GILA COUN.
Scale:-1 IN=30 FT.— APRI.
LEGEND
Gold-Au. Assay
Silver-Ag. "
Lead-Pb. "
Copper-Cu "
Mining Width-M W-



ASSAY PLAT

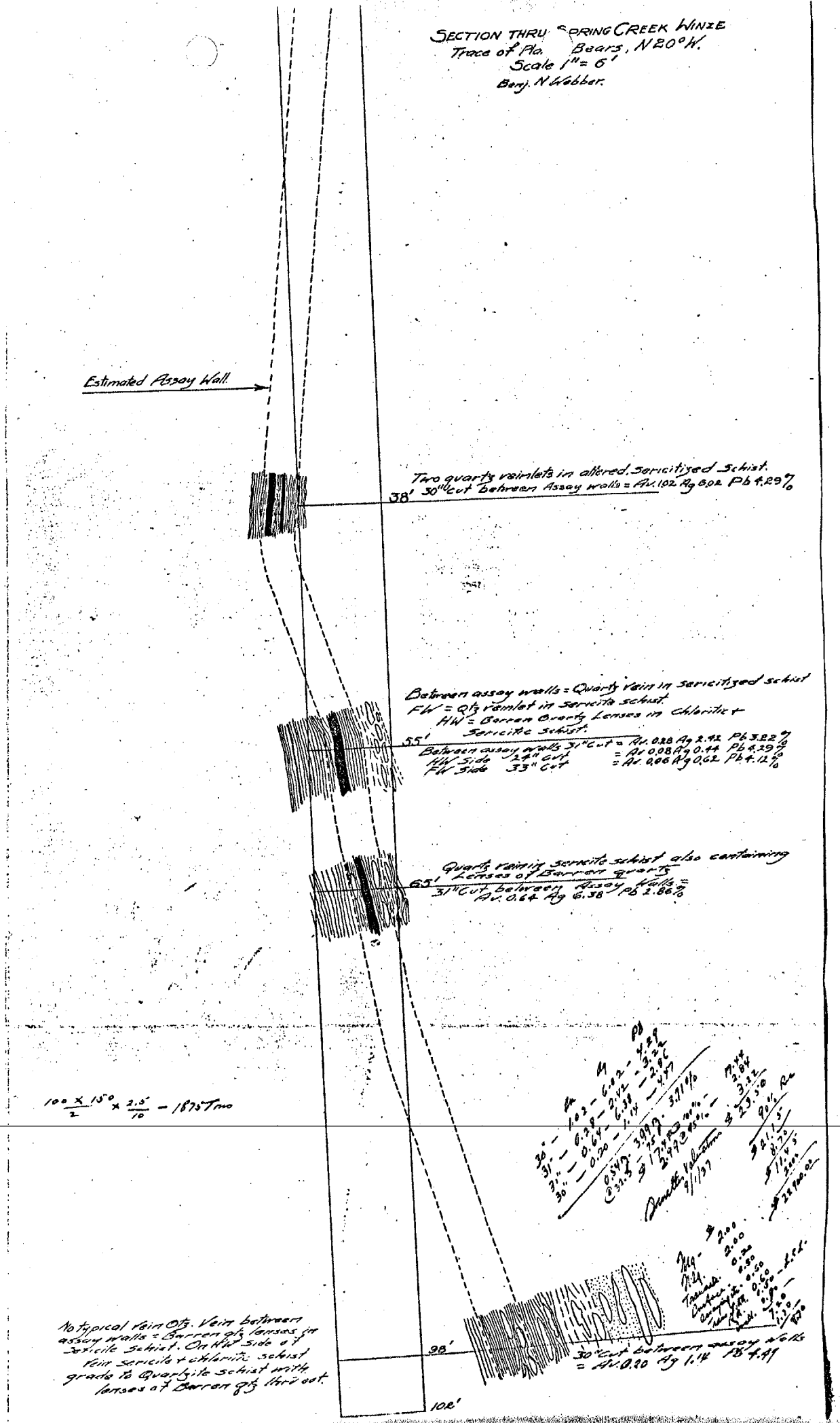
BALD EAGLE MINING CO.-SPRING CREEK DIVISION-YOUNG, GILA COUNTY, ARIZ.

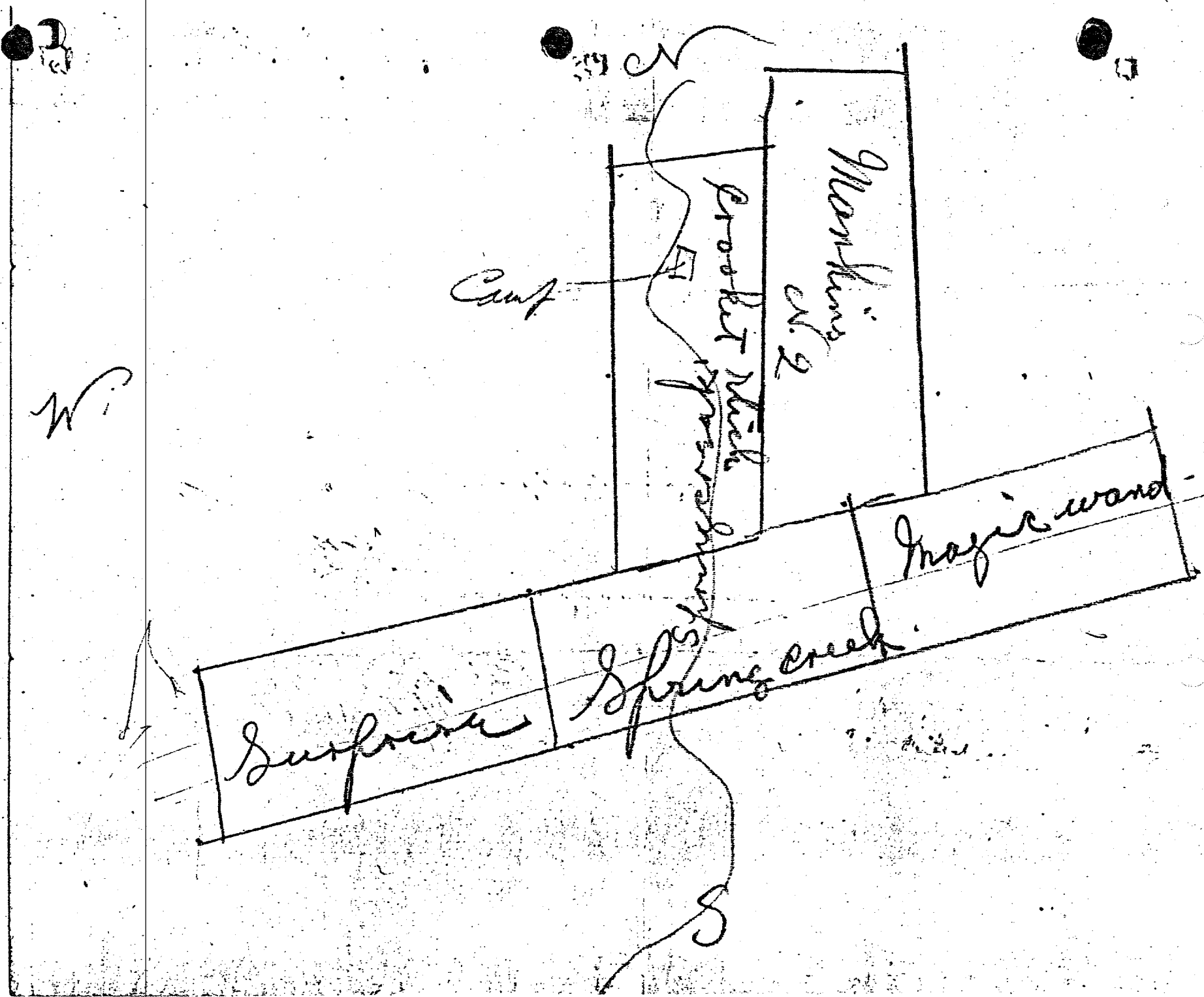
Scale:-1 IN=30 FT. April 6, 1929

LEGEND

Gold-Au.	Assay in Ounces
Silver-Ag.	" " "
Lead-Pb.	" Percent
Copper-Cu.	" "
Mining Width	M.W.
Vein	V.

SECTION THRU SPRING CREEK WINZE
Trace of Pla. Bears, N20°W.
Scale 1" = 6'
Benj. N Webber.




N
Mantlins No. 2
Crooked Nail
Camp
Magic wand
Surprise
Spring creek
Johnson creek
W
S

112
19
93

0.52 (57.96 AU / 111) (0.54 57.85 AU / 108)

AU 0.54

Gold = 1/2 oz

116 TOTAL ASSAYS

4.32 (479.4 AG / 111) (4.16 481.25 / 115)

AG = 4.32

Silver 4 oz

(273.53 Pb / 93) 2.9% (279.93 / 96) = Pb 2.72%

Pb = 2.94%

3% Lead

Arizona Testing Laboratories

815 West Madison · Phoenix, Arizona 85007 · Telephone 254-6181

For: Mr. Lee Folks
Post Office Box 197
Young, Arizona 85554

Date: May 2, 1979

Lab. No.: 9687

Received: 4/10/79

Marked: No Mark

Submitted by: same (mail)

REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION

ELEMENT	APPROXIMATE PERCENT
Boron	0.01
Silicon	Major Constituent
Aluminum	Intermediate Constituent
Manganese	0.2
Magnesium	5.0
Lead	0.05
Gallium	0.005
Copper	0.04
Iron	9.0
Beryllium	0.001
Molybdenum	0.05
Calcium	3.0
Vanadium	0.008
Sodium	8.0
Titanium	0.2
Silver	0.0005
Nickel	0.1
Tungsten	Nil

Any Market for this Grade Mole

Not Yanper Dollar

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean Jr.

Claude E. McLean, Jr.

205 SAN FRANCISCO ST.
P. O. BOX 489

GEO. W. CAMERON
ASSAYER AND CHEMIST
AGENT FOR ORE SHIPPERS

EL PASO, TEXAS, Jun 5th, 1928

CERTIFICATE OF ASSAY

ASSAYED FOR Carolan & McAuliffe

MARKED Lot No. 4097 Car No. 36122

FAC-SIMILE PRINTING CO.

	Gold Ozs. per ton	Silver Ozs. per ton	Per Cent Copper	Per Cent Lead	Per Cent Silica	Per Cent Iron	Per Cent Lime	Per Cent Sulphur	Per Cent Zinc	Per Cent Manganese	Per Cent Alum
Smelter	2.93	24.2	1.39	15.8		Ore					
Our	3.05	29.1	1.48	16.0		Iron					

Umpire Gold, Silver, Copper

CHARGES

Geo Cameron ASSAYER

Arizona Testing Laboratories

817 West Madison · Phoenix, Arizona 85007 · Telephone 254-6181

For Mr. Lee Folks
Post Office Box 197
Young, Arizona 85554

Date May 18, 1979

ASSAY CERTIFICATE

LAB NO.	IDENTIFICATION	OZ. PER TON		PERCENTAGES			
		GOLD	SILVER	COPPER			
57	no mark	0.26	3.1	1.0			

Mark Dillon

Respectfully submitted,

ARIZONA TESTING LABORATORIES

Claude E. McLean, Jr.

Claude E. McLean, Jr.

Registered Assayer
CERTIFICATE NO. 6253
CLAUDE EUGENE McLEAN, JR.
Date Signed 5/18/79
ARIZONA, U.S.A.

FORM 2A

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Carolan & McAuliffe, EL PASO, TEXAS, Jan. 12, 1926

SHIPPING POINT Globe, Ariz. SMELTER LOT 45

CLASSIFICATION Conc. SHIPPER'S LOT

CAR NO.	CAR INITIAL	GROSS	SACKS No.	SACKS Weight	NET WEIGHT	MOISTURE %	DRY WEIGHT
35201	MKT	12320	137	100	12220	1	12098
	Reg. Lead Deduction				1.5		
	Ded. a/c copper paid for				.264		
					1.764		

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	1-5-26	
SILVER	.6850	CTS. PER
LEAD	$ 9.25	PER 100 L
E. & M. J.		
COPPER	.13895	CTS. PER

LONDON LEAD PER 2240 LBS. £ s d

EXCHANGE N. Y.

EXCHANGE MEX. CY.

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	AMOUNT PER TON	AMOU TOTA
GOLD	4.04	OZ.						OZ.	20.00	80.80	
SILVER	21.7	OZ.				95	20.615	OZ.	.6850	14.12	
LEAD	25.3	%	1.764	23.536	470.72	90	423.648	LBS.	.0785	33.26	
COPPER	1.41	%	.75	.66	13.2			LBS.	.10895	1.44	
TOTAL PAYMENTS FOR METALS											129.6

DEDUCTIONS

	DEBITS	CREDITS
BASING CHARGE F. O. B. EL PASO SMELTING WORKS	5.00	
BRICKING CHARGE		
Handling Sacks	.50	

ANALYSIS			DEDUCTION	NET		RATE	DEBITS	CREDITS
INSOLUBLE	24.2	%			%	@ .05 CTS.	1.21	
SILICA		%			%	@ CTS.		
ALUMINA		%			%	@ CTS.		
ZINC		%			%	@ CTS.		
SULPHUR	1.8	%	1.0	.8	%	@ .20 CTS.	.16	
As Sb Bi	2.2	%	1.0	1.2	%	@ .30 CTS.	.36	
		%			%	@ CTS.		
IRON		%			%	@ CTS.		
		%			%	@ CTS.		
LIME		%			%	@ CTS.		
TOTAL DEDUCTIONS							7.23	7.2
NET VALUE PER TON								122.3

					DEBITS	CREDITS
TOTAL VALUE ON	6.049	DRY TONS @	122.39	PER TON		740.34
LESS FREIGHT ON	6.160	WET TONS @	7.28	PER TON	44.85	
LESS FREIGHT ON SACKS RETURNED					.62	
LESS DEMURRAGE		SWITCHING			2.25	
LESS SAMPLE EXPIRES						
LESS REVENUE STAMPS						
LESS DUTIES		BROKERAGE	Sampling		5.00	
			BALANCE DUE SHIPPER		687.62	
					740.34	740.34

MADE BY CHECKED CORRECT APPROVED

O. A. CRITCHETT

G. FERGUSON

THE CUSTOM ASSAY OFFICE

CRITCHETT & FERGUSON

210 SAN FRANCISCO ST.

P. O. Box 811
TELEPHONE M. 334

SPECIALTIES
- Umpire and Control Work
- Agents for Ore Shippers
- Electrolytic Determinations of Copper
- Examinations and Report of Mines
- Analysis of Coal, Water, Etc.
- Sampling Car Lots at Smelter

Send for Mailing Sacks.

EL PASO, TEXAS, April 4 1928 192__

This is to certify that the samples submitted to this office for assay gave the following results:

No.	gold	silver	lead
1	.84	1.1	1.2
2	.58	4.1	8.9
3	.26	3.0	3.5
4	.03	2.6	4.6
5	.24	4.4	0.8
6	.56	3.7	5.6
7	.34	33.9	6.2
8	.20	1.1	0.4
9	.01	1.1	2.9
10	.01	.3	0.3
11	2.20	12.4	1.2
12	.03	9.1	8.1
13	.01	.1	0.3
14	.81	15.4	1.3
15	3.76	2.1	0.4

Composite Nos. 3-4-5-6-7-8-9-11-12-14-15

copper	zinc
0.65	0.7

Charges $ 28.75

CRITCHETT & FERGUSON

rejects returned by express today.

FORM 2A-25M-9-26-CPC

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Carolan and McAuliffe — EL PASO, TEXAS, 11-9-26

SHIPPING POINT Globe, Ariz — SMELTER LOT 3707

CLASSIFICATION Cons — SHIPPER'S LOT

CAR No.	CAR Initial	Gross	Sacks No.	Sacks Weight	Net Weight	Moisture %	Dry Weight
37343	GH	37040		Wt	34195	1.3	33750
		2560		109 3708			
		34480	427	285			
Reg deduction (Dead)				1.5			
Ded acc copper paid for				.404			
				1.904			

N. Y. METAL QUOTATIONS

Settlement Date	10-25-26	
Silver	.52875	Cts. per oz
Lead	$ 8.25	per 100 lbs
E. & M. J.		
Copper	13.917	Cts per lb
London Lead per 2240 lbs.	£	s d
Exchange N. Y.		
Exchange Mex. Cy.		

PAYMENTS FOR METALS

Elements	Assay per ton 2000 lbs.		Deducted	Net Assay	Equivalent in lbs.	Per cent paid for	Net paid for		Rate		Value: Amount per ton	Value: Amount total
Gold	1.87	oz.						oz.	20.00		37.40	
Silver	13.9	oz.		13.9		95	13.205	oz.	.52875		6.98	
Lead	10.2	%	1.904	8.296	165.92	90	149.328	lbs.	.0685		10.23	
Copper	1.76	%	.75	1.01	20.2		2.02	lbs.	.10917		2.21	
Total payments for metals												56.8

DEDUCTIONS

	Debits	Credits
Basing charge F. O. B. El Paso Smelting Works	5.00	
Bricking charge		
Handling sacks	.50	

Analysis			Deduction	Net		Rate	Debits	Credits
Insoluble	41.4	%			%	@ .05 Cts.	2.07	
Silica		%			%	@ Cts.		
Alumina		%			%	@ Cts.		
Zinc		%			%	@ Cts.		
Sulphur	1.4	%	1.0	.4	%	@ .20 Cts.	.08	
As Sb Bi		%			%	@ Cts.		
		%			%	@ Cts.		
Iron		%			%	@ Cts.		
		%			%	@ Cts.		
Lime		%			%	@ Cts.		
Total deductions							7.65	7.6

NET VALUE PER TON 49.1

					Debits	Credits
Total value on	16.875	Dry tons @	49.17	per ton		829.7
Less freight on	17.240	Wet tons @	5.33	per ton	91.13	
Less freight on sacks returned						
Less demurrage		Switching	2.25		2.85	
Less empires						
Less duties		Brokerage				
Balance due shipper					736.36	
					829.74	829.74

CHECKED — CORRECT — APPROVED

FORM 2A-25M-9-26-CPC

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Carolan & McAuliffe

EL PASO, TEXAS 11-9-26

SHIPPING POINT Globe, Ariz.

SMELTER LOT 3708

CLASSIFICATION Ore

SHIPPER'S LOT

CAR NO.	CAR INITIAL	GROSS	SACKS No.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
37343	GH	2560	31		2540	1	2515
Reg lead deduction				1.5			
Ded acc copper paid for				1.52			
				3.02			

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	10-25-26	
SILVER	.52875	CTS. PER O
LEAD	$ 8.25	PER 100 L
E. & M. J.		
COPPER	13.917	CTS PER

LONDON LEAD PER 2240 LBS.

£ s d

EXCHANGE N. Y.

EXCHANGE MEX. CY.

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOU TOTA
GOLD	.55	OZ.					.55	OZ.	20.00	11.00	
SILVER	54.0	OZ.				95	51.3	OZ.	.52875	27.12	
LEAD	27.3	%	3.02	24.28	485.6	90	437.04	LBS.	.0685	29.94	
COPPER	4.55	%	.75	3.80	76.0		76.0	LBS.	.10917	8.30	
TOTAL PAYMENTS FOR METALS											76.

DEDUCTIONS

	DEBITS	CREDITS
BASING CHARGE F. O. B. EL PASO SMELTING WORKS	5.00	
BRICKING CHARGE	.50	
HANDLING SACKS		

ANALYSIS			DEDUCTION	NET		RATE	DEBITS
INSOLUBLE	34.8	%			%	@ .05 CTS.	1.74
SILICA		%			%	@ CTS.	
ALUMINA		%			%	@ CTS.	
ZINC		%			%	@ CTS.	
SULPHUR	23.8	%	1.0	1.8	%	@ .20 CTS.	.36
As Sb Bi		%			%	@ CTS.	
		%			%	@ CTS.	
IRON		%			%	@ CTS.	
		%			%	@ CTS.	
LIME		%			%	@ CTS.	
TOTAL DEDUCTIONS							7.60

7.

68.

NET VALUE PER TON

					DEBITS	CREDI
						86.
TOTAL VALUE ON	1.2575	DRY TONS @	68.76	PER TON		
LESS FREIGHT ON	1.280	WET TONS @	5.33	PER TON	6.82	
LESS FREIGHT ON SACKS RETURNED			1.72		1.72	
DEMURRAGE		SWITCHING				
LESS REPIRES						
LESS DUTIES		BROKERAGE				
		Sampling			5.00	
				BALANCE DUE SHIPPER	72.93	
					86.47	86.

MADE BY

CHECKED

CORRECT

APPROVED

FORM 2A-25M-9-26-CPC

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Carolan & McAuliffe, EL PASO, TEXAS. Aug.24,1927.

SHIPPING POINT Globe,Ariz. SMELTER LOT 2765

CLASSIFICATION Ore SHIPPER'S LOT 2

CAR NO.	CAR INITIAL	GROSS	SACKS No.	SACKS Weight	NET WEIGHT	MOISTURE %	DRY WEIGHT
47983	AT				44260	1	43817

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	8-16-27	
SILVER	.545	CTS. PER
LEAD	$	PER 100 L
E. & M. J. COPPER	13077.	CTS PER
LONDON LEAD PER 2240 LBS.	£ s d	
EXCHANGE N. Y.		
EXCHANGE MEX. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOU TOTA
GOLD	2.07	OZ.					2.07	OZ.	19.50	40.37	
SILVER	4.8	OZ.	.5	4.3			4.3	OZ.	.545	2.34	
LEAD		%						LBS.			
COPPER	1.49	%	.40	1.09	21.8		21.8	LBS.	10577	2.31	
TOTAL PAYMENTS FOR METALS											45.02

DEDUCTIONS

	DEBITS	CREDITS
BASING CHARGE F. O. B. EL PASO SMELTING WORKS	5.00	
BRICKING CHARGE		
HANDLING SACKS		

ANALYSIS			DEDUCTION	NET		RATE	
INSOLUBLE		%			%	@	CTS.
SILICA		%			%	@	CTS.
ALUMINA		%			%	@	CTS.
ZINC		%			%	@	CTS.
SULPHUR		%			%	@	CTS.
As Sb Bi		%			%	@	CTS.
		%			%	@	CTS.
IRON		%			%	@	CTS.
		%			%	@	CTS.
LIME		%			%	@	CTS.

	DEBITS	CREDITS
TOTAL DEDUCTIONS	5.00	5.00
NET VALUE PER TON		40.02

					DEBITS	CREDI
						876.78
TOTAL VALUE ON	21.9085	DRY TONS @	40.02	PER TON		
LESS FREIGHT ON	22.130	WET TONS @	4.20	PER TON	92.94	
LESS FREIGHT ON SACKS RETURNED					1.54	
LESS DEMURRAGE		SWITCHING	Reweigh		3.15	
LESS UMPIRES						
LESS DUTIES		BROKERAGE				
			Advance		575.00	
			BALANCE DUE SHIPPER		204.15	
					876.78	876.78

MADE BY CHECKED CORRECT APPROVED

FORM 2A-25M-9-26-CPC

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Carolan & McAuliffe, EL PASO, TEXAS, Aug. 24, 1927.

SHIPPING POINT Globe, Ariz. SMELTER LOT 2764

CLASSIFICATION Ore SHIPPER'S LOT 1

CAR NO.	CAR INITIAL	GROSS	SACKS No.	SACKS Weight	NET WEIGHT	MOISTURE %	DRY WEIGHT
47983	AT				26500	1.2	26182
		Deduction a/c Cu paid for				.52	
		regular deduction				1.5	
						2.02	

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	8-16-27	
SILVER	.545	CTS. PER
LEAD	6.75	PER 100 L
E. & M. J.		
COPPER	13.077	CTS PER
LONDON LEAD PER 2240 LBS.		
£	s	d
EXCHANGE N. Y.		
EXCHANGE MEX. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOU TOT
GOLD	2.03	OZ.					2.03	OZ.	20.00	40.60	
SILVER	32.6	OZ.				95	30.97	OZ.	.545	16.88	
LEAD	16.1	%	2.02	14.08	281.6	95	267.52	LBS.	.0535	14.31	
COPPER	1.80	%	.50	1.30	26.0		26.0	LBS.	.10077	2.62	
TOTAL PAYMENTS FOR METALS											74.41

DEDUCTIONS

	DEBITS	CREDITS
SAMPLING CHARGE F. O. B. EL PASO SMELTING WORKS 3.50 + 2.44	5.94	
SACKING CHARGE		
HANDLING SACKS	.50	

ANALYSIS			DEDUCTION	NET		RATE		DEBITS	CREDITS
INSOLUBLE	54.2	%			%	@ .05	CTS.	2.71	
SILICA		%			%	@	CTS.		
ALUMINA		%			%	@	CTS.		
ZINC		%			%	@	CTS.		
SULPHUR		%			%	@	CTS.		
As Sb Bi	1.3	%	1.	.3	%	@2.50	CTS.	.75	
		%			%	@	CTS.		
IRON		%			%	@	CTS.		
		%			%	@	CTS.		
LIME		%			%	@	CTS.		
TOTAL DEDUCTIONS								9.90	9.9
NET VALUE PER TON									64.5

					DEBITS	CREDI
TOTAL VALUE ON	13.091	DRY TONS @	64.51	PER TON		844.5
LESS FREIGHT ON	26.760	WET TONS @	4.20	PER TON	56.20	
LESS FREIGHT ON SACKS RETURNED						
LESS DEMURRAGE		SWITCHING			2.25	
LESS EMPIRES						
LESS DUTIES		BROKERAGE				
		Advance			575.00	
		BALANCE DUE SHIPPER			211.05	
					844.50	844.5

MADE BY CHECKED CORRECT APPROVED

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELT'NG WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS. Sept. 19, 1930.

ISS SHIPPING POINT Globe, Arizona SMELTER LOT 1713

CLASSIFICATION Cons. SHIPPER'S LOT

CAR NO.	CAR INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
LPL		6496	91	68	6428	3.3	6216

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	9-9-30	
SILVER	3625	CTS. PER
LEAD	$ 5.50	PER 100 L
E. & M. J. COPPER	10529	CTS. PER
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CF.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOU TOTA
GOLD	2.55	oz.						oz.	20.00	51.00	
SILVER	25.1	oz.				95	23.845	oz.	3625	8.64	
LEAD	23.6	%	1.5	22.1	442	95	419.9	LBS.	4.10	17.22	
COPPER	1.23	%	.5	.73	14.6	90	13.14	LBS.	.05529	.73	
TOTAL PAYMENTS FOR METALS											77.59

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	6.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	

Copper Deficiency

ANALYSIS			DEDUCTION	NET		RATE			DEBITS
Insoluble	31.2	%			%	@	5	Cts.	1.56
Silica		%			%	@		Cts.	
Alumina		%			%	@		Cts.	
Zinc		%			%	@		Cts.	
Sulphur		%			%	@		Cts.	
As Sb	.60	%	.5	.1	%	@	1.00	Cts.	.10
Bi		%			%	@		Cts.	
Iron		%			%	@		Cts.	
Lime		%			%	@		Cts.	

#1

TOTAL DEDUCTIONS	8.66	8.66
NET VALUE PER TON		68.93

			DEBITS	CREDI
Total Value on 3.108	Dry Tons @ 68.93 Per Ton			214.2
Less Freight on 3.3925	Wet Tons @ 6.24 Per Ton	21.17		
Less Freight on Sacks Returned	Prepaid	11.47	9.70	
Less Demurrage	////////// Sax Returned		.50	
Less Umpires				
Less Duties and Brokerage				
BALANCE DUE SHIPPER			204.03	
			214.23	214.23

MADE BY CHECKED CORRECT APPROVED

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS, October 8, 1930

ADDRESS Phoenix, Ariz. SHIPPING POINT Globe, Ariz. SMELTER LOT 1790

CLASSIFICATION Cons. SHIPPER'S LOT

CAR NO.	CAR INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
15591	SP	9140	123	115	9025	3.0	8754

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	9-23-30	
SILVER	36667	CTS. PER OZ
LEAD	$ 5.50	PER 100 LBS
E. & M. J. COPPER	10025	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD	2.71	OZ.					20.00	OZ.	20.00	54.20	
SILVER	37.8	OZ.				95	35.91	OZ.	36667	13.17	
LEAD	21.4	%	1.5	19.9	398	95	378.1	LBS.	4.10	15.50	
COPPER	1.6	%	.5	1.1	22	90	19.8	LBS.	.05025	.99	
TOTAL PAYMENTS FOR METALS											83.86

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	6.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE		DEBITS
Insoluble	36.0	%			%	@ 5	Cts.	1.80
Silica		%			%	@	Cts.	
Alumina		%			%	@	Cts.	
Zinc	0.8	%			%	@	Cts.	
Sulphur	0.7	%			%	@	Cts.	
As Sb		%			%	@	Cts.	
Bi		%			%	@	Cts.	
Iron		%			%	@	Cts.	
Lime		%			%	@	Cts.	
TOTAL DEDUCTIONS								8.80

#2.

NET VALUE PER TON 75.06

			DEBITS	CREDIT
Total Value on 4.377	Dry Tons @ 75.06 Per Ton			328.5
Less Freight on 4.570	Wet Tons @ 6.11 Per Ton	27.92		
Less Freight on Sacks Returned	Prepaid	15.65	12.27	
Less Demurrage	Sacks returned		.50	
Less Umpires	Switching		2.25	
Less Duties and Brokerage				
BALANCE DUE SHIPPER			313.52	
			328.54	328.54

MADE BY CHECKED CORRECT APPROVED

EL PASO SMELTING WORKS

ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS, October 25, 1930.

ADDRESS Phoenix, Ariz. SHIPPING POINT Globe, Ariz. SMELTER LOT 1926

CLASSIFICATION Conc. SHIPPER'S LOT 3

CAR		WEIGHT IN AVOIRDUPOIS POUNDS					
NO.	INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
Truck	XXXX	7962	100	110	7852	5.1	7452

#3

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	10-11-30	
SILVER	35896	CTS. PER
LEAD	$5.175	PER 100 LB
E. & M. J. COPPER	.09775	CTS. PER L
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD	2.50	OZ.						OZ.	20.00	50.00	
SILVER	53.56	OZ.				95	50.882	OZ.	35896	18.26	
LEAD	28.0	%	1.5	26.5	530	95	503.5	LBS.	3.775	19.01	
COPPER	1.42	%	.5	.92	18.4	90	16.56	LBS.	.04775	.79	
TOTAL PAYMENTS FOR METALS											88.06

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	6.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE		DEBITS
Insoluble	35.0	%			%	@ 5	Cts.	1.75
Silica		%			%	@	Cts.	
Alumina		%			%	@	Cts.	
Zinc	0.5	%			%	@	Cts.	
Sulphur	1.1	%	1.	.1	%	@ 20	Cts.	.02
As Sb		%			%	@	Cts.	
Bi		%			%	@	Cts.	
Iron		%			%	@	Cts.	
Lime		%			%	@	Cts.	
TOTAL DEDUCTIONS								8.77
NET VALUE PER TON								79.29

				DEBITS	CREDIT
Total Value on 3726	Dry Tons @ 79.29 Per Ton				295.43
Less Freight on 3.981	Wet Tons @ 6.11 Per Ton		24.32		
Less Freight on Sacks Returned	Prepaid		14.22	10.10	
Less Demurrage	Sax returned			.50	
Less Umpires					
Duties and Brokerage					
BALANCE DUE SHIPPER				284.83	
				295.43	295.43

MADE BY CHECKED CORRECT APPROVED

EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS, November 6, 1930.

ADDRESS Globe, Arizona. SHIPPING POINT Globe, Arizona. SMELTER LOT 1713

CLASSIFICATION Conc. SHIPPER'S LOT

CAR		WEIGHT IN AVOIRDUPOIS POUNDS					
NO.	INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
Truck		6496	91	68	6428	3.3	6216

Correction a/c freight

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	9-9-30	
SILVER		CTS. PER OZ.
LEAD	$	PER 100 LBS
E. & M. J. COPPER		CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD		OZ.						OZ.			
SILVER		OZ.						OZ.			
LEAD		%						LBS.			
COPPER		%						LBS.			

TOTAL PAYMENTS FOR METALS

DEDUCTIONS

				DEBITS	CREDITS
Refiner Lead Deduction	%		Basing Charge FOB El Paso		
% Copper Paid For					
Total Lead Deduction			Handling Sacks		

Copper Deficiency

ANALYSIS			DEDUCTION	NET		RATE	
Insoluble		%			%	@	Cts.
Silica		%			%	@	Cts.
Alumina		%			%	@	Cts.
Zinc		%			%	@	Cts.
Sulphur		%			%	@	Cts.
As Sb		%			%	@	Cts.
Bi		%			%	@	Cts.
Iron		%			%	@	Cts.
Lime		%			%	@	Cts.

TOTAL DEDUCTIONS

NET VALUE PER TON

						DEBITS	CREDIT
Total Value on	3.108	Dry Tons @		Per Ton			
Less Freight on	3.3925	Wet Tons @	6.11	Per Ton	20.73		
Less Freight on Sacks Returned	Frt. orig. settlement		6.24		21.17		.44
Less Demurrage		Switching					
Less Umpires							
Less Duties and Brokerage							

BALANCE DUE SHIPPER .44

.44 .44

MADE BY CHECKED CORRECT APPROVED

EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS. 11-6-30

ADDRESS Globe, Arizona SHIPPING POINT Globe, Arizona SMELTER LOT 2013.

CLASSIFICATION Conc. SHIPPER'S LOT 4

CAR NO.	CAR INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
23515	SP	10140	120	150	9990	7.2	9271

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATION

SETTLEMENT DATE	10-25-30	
SILVER	35729	CTS. PER
LEAD	$ 5.10	PER 100
E. & M. J. COPPER	.04421	CTS. PER
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOT.
GOLD	3.15	OZ.						OZ.	20.00	63.00	
SILVER	49.4	OZ.				95	46.93	OZ.	35729	16.77	
LEAD	32.5	%	1.5	31.0	620	95	589	LBS.	3.70	21.79	
COPPER	1.06	%	.5	.56	11.2	90	10.08	LBS.	.04421	.45	
TOTAL PAYMENTS FOR METALS											102.0

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	6.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE	DEBITS
Insoluble	32.6	%			%	@ 5 Cts.	1.63
Silica		%			%	@ Cts.	
Alumina		%			%	@ Cts.	
Zinc		%			%	@ Cts.	
Sulphur		%			%	@ Cts.	
As Sb		%			%	@ Cts.	
Bi		%			%	@ Cts.	
Iron		%			%	@ Cts.	
Lime		%			%	@ Cts.	
TOTAL DEDUCTIONS							8.63

NET VALUE PER TON 93.3

			DEBITS	CREDITS
Total Value on 4.6355	Dry Tons @ 93.38 Per Ton			432.8
Less Freight on 5.07	Wet Tons @ 6.89 Per Ton		34.93	
Less Freight on Sacks Returned	Frt. prepaid		17.76	17.17
Less Demurrage	Switching			
Less Umpires	Tax returned			.70
Duties and Brokerage	Switching			2.25
BALANCE DUE SHIPPER			412.74	
			432.86	432.86

MADE BY CHECKED CORRECT APPROVED

EL PASO SMELTING WORKS
ORE SETTLEMENT

November 13, 1930.

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS.

ADDRESS Phoenix, Arizona. SHIPPING POINT Globe, Arizona. SMELTER LOT 2072

5

CLASSIFICATION Conc. SHIPPER'S LOT

CAR NO.	CAR INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS: GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
53264	TNO	19480 Net 9300 Lot 10180	No.73 130	160	10020	8.8	9138

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	11-4-30	
SILVER	36175	CTS. PER. OZ
LEAD	$5.10	PER 100 LBS
E. & M. J. COPPER	.09275	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE: AMOUNT PER TON	VALUE: AMOUNT TOTAL
GOLD	1.882	OZ.						OZ.	20.00	37.64	
SILVER	35.16	OZ.				95	33.402	OZ.	36175	12.08	
LEAD	30.0	%	1.5	28.5	570	95	541.5	LBS.	3.70	20.04	
COPPER	1.01	%	.5	.51	10.2	90	9.18	LBS.	04275	.39	
TOTAL PAYMENTS FOR METALS											70.15

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	6.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE		DEBITS
Insoluble	36.8	%			%	@ 5	Cts.	1.84
Silica		%			%	@	Cts.	
Alumina		%			%	@	Cts.	
Zinc		%			%	@	Cts.	
Sulphur	1.1	%	1.	.1	%	@ 20	Cts.	.02
As Sb		%			%	@	Cts.	
Bi		%			%	@	Cts.	
Iron		%			%	@	Cts.	
Lime		%			%	@	Cts.	
TOTAL DEDUCTIONS								8.86

NET VALUE PER TON 61.29

			DEBITS	CREDITS
				280.03
Total Value on 4.569	Dry Tons @ 61.29	Per Ton		
Less Freight on 5.090	Wet Tons @ 4.56	Per Ton 23.21 prepaid 17.47	5.74	
Less Freight on Sacks Returned	Lots 2013 & 2072	.85	.15	
Less Demurrage	Charged Lot 2013	.70		
Less Umpires	Switching		1.13	
Less Duties and Brokerage				
BALANCE DUE SHIPPER			273.01	
			280.03	280.03

4.56) 24.76 (5.43
2280
1960
1824
1360

MADE BY CHECKED CORRECT APPROVED

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Company EL PASO, TEXAS. November 20, 1930.

ADDRESS Phoenix, Arizona SHIPPING POINT Globe, Arizona. SMELTER LOT 2072

CLASSIFICATION Conc. SHIPPER'S LOT 5

CAR NO.	CAR INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS: GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
53264	TNO	19480 Net 9300 Lot 2073 10180	130	160	10020	8.8	9138

Correction account freight

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	11-4-30	
SILVER		CTS. PER OZ.
LEAD	$	PER 100 LBS.
E. & M. J. COPPER		CTS. PER LB.
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE: AMOUNT PER TON	VALUE: AMOUNT TOTAL
GOLD		OZ.						OZ.			
SILVER		OZ.						OZ.			
LEAD		%						LBS.			
COPPER		%						LBS.			

TOTAL PAYMENTS FOR METALS

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso		
% Copper Paid For					
Total Lead Deduction			Handling Sacks		

Copper Deficiency

ANALYSIS			DEDUCTION	NET		RATE	
Insoluble		%			%	@	Cts.
Silica		%			%	@	Cts.
Alumina		%			%	@	Cts.
Zinc		%			%	@	Cts.
Sulphur		%			%	@	Cts.
As Sb		%			%	@	Cts.
Bi		%			%	@	Cts.
Iron		%			%	@	Cts.
Lime		%			%	@	Cts.

TOTAL DEDUCTIONS

NET VALUE PER TON

					DEBITS	CREDIT
Total Value on		Dry Tons @		Per Ton		
Less Freight on	4549	Wet Tons @	4.94	Per Ton	25.14	
Less Freight on Sacks Returned	5,090	Frt. Original settlement			23.21	1.93
Less Demurrage		Switching				
Less Umpires						
Less Duties and Brokerage						
BALANCE DUE ~~SHIPPER~~ Smelter						1.93
					1.93	1.93

MADE BY CHECKED CORRECT APPROVED

EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS 11-20-30

ADDRESS Globe, Arizona. SHIPPING POINT Globe, Arizona. SMELTER LOT 2101

CLASSIFICATION Conc. SHIPPER'S LOT 6

CAR NO.	CAR INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
31267	AT	17600	Net		12370	10.6	11059
		5040	Lot	2102			
		12560	148	190			

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	11-10-30	
SILVER	36042	CTS. PER OZ
LEAD	$ 5.10	PER 100 LBS
E. & M. J. COPPER	101	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD	1.513	oz.						oz.	20	30.26	
SILVER	29.6	oz.				95	38.12	oz.	36042	10.14	
LEAD	28.9	%	1.5	27.4	548	95	520.6	LBS.	3.70	19.26	
COPPER	.94	%	.5	.44	8.8	90	7.92	LBS.	.051	.40	
TOTAL PAYMENTS FOR METALS											60.06

DEDUCTIONS

				DEBITS	CREDITS
Ra[illegible] Lead Deduction	%		Basing Charge FOB El Paso	6.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE			DEBITS
Insoluble	35.9	%			%	@	5	Cts.	1.80
Silica		%			%	@		Cts.	
Alumina		%			%	@		Cts.	
Zinc		%			%	@		Cts.	
Sulphur	1.1	%	1.	.1	%	@	20	Cts.	.02
As Sb		%			%	@		Cts.	
Bi		%			%	@		Cts.	
Iron		%			%	@		Cts.	
Lime		%			%	@		Cts.	

TOTAL DEDUCTIONS 8.82 — 8.82

NET VALUE PER TON 51.24

			DEBITS	CREDITS
Total Value on 5.5295	Dry Tons @ 51.24 Per Ton			283.33
Less Freight on 6.280	Wet Tons @ 5.33 Per Ton	33.47		
Less Freight on Sacks Returned	Frt. Prepaid	21.62	11.85	
Less Demurrage	~~Sauistoking~~			
Less Umpires	Frt. on sax returned		.51	
Less Duties and Brokerage	Switching		2.25	
	BALANCE DUE SHIPPER		268.72	
			283.33	283.33

MADE BY CHECKED CORRECT APPROVED

#266

FORM 2-A 25M 1-30 PH

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

November 24, 1930.

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS.

ADDRESS Phoenix, Arizona. SHIPPING POINT Globe, Arizona SMELTER LOT 2123

CLASSIFICATION Conc. SHIPPER'S LOT #9

CAR		WEIGHT IN AVOIRDUPOIS POUNDS					
NO.	INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
Truck		7580	102	150	7430	9.6	6717

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	11-13-30	
SILVER	36042	CTS. PER O
LEAD	$ 5.10	PER 100 LB
E. & M. J. COPPER	101	CTS. PER LI
LONDON LEAD PER 2240 LBS	£ . s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUN TOTAL
GOLD	1.16	OZ.						OZ.	20.00	23.20	
SILVER	23.0	OZ.				95	21.85	OZ.	36042	7.88	
LEAD	17.4	%	1.5	15.9	318	95	302.1	LBS.	3.70	11.18	
COPPER	.64	%	.5	.14	2.8	90	2.52	LBS.	051	.13	
TOTAL PAYMENTS FOR METALS											42.39

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	5.24	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE		DEBITS
Insoluble	52.1	%			%	@ 5	Cts.	2.61
Silica		%			%	@	Cts.	
Alumina		%			%	@	Cts.	
Zinc		%			%	@	Cts.	
Sulphur		%			%	@	Cts.	
As Sb		%			%	@	Cts.	
Bi		%			%	@	Cts.	
Iron		%			%	@	Cts.	
Lime		%			%	@	Cts.	
TOTAL DEDUCTIONS								8.35

NET VALUE PER TON 34.04

			DEBITS	CREDITS
Total Value on 3.3585	Dry Tons @ 34.04 Per Ton			114.32
Less Freight on 3.790	Wet Tons @ 4.94 Per Ton	18.72		
Less Freight on Sacks Returned	Prepaid	13.33	5.39	
Less Demurrage	Switching			
Less Umpires	Frt. on Sax returned		.60	
Less Penalties and Brokerage				
BALANCE DUE SHIPPER			108.33	
			114.32	114.32

MADE BY CHECKED CORRECT APPROVED

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Company EL PASO, TEXAS 11-25-3

ADDRESS Phoenix, Ariz. SHIPPING POINT Globe, Ariz. SMELTER LOT 2151

CLASSIFICATION Cong. SHIPPER'S LOT #8

CAR NO.	CAR INITIAL	GROSS	SACKS NO.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
Sm. Truck		7530	102	160	7370	13.3	6390

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	11-18-30	
SILVER	35917	CTS. PER OZ.
LEAD	$5.10	PER 100 LBS.
E. & M. J. COPPER	1017	CTS. PER LB.
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD	1.25	oz.						oz.	20	25.00	
SILVER	21.4	oz.				95	20.33	oz.	35917	7.30	
LEAD	14.0	%	1.5	12.5	25	95	23.75	LBS.	3.7	8.79	
COPPER	.7	%	.5	.2	4	90	3.6	LBS.	.06017	.22	
TOTAL PAYMENTS FOR METALS											41.31

DEDUCTIONS

			DEBITS	CREDITS
Regular Lead Deduction	%	Basing Charge FOB El Paso	5.13	
% Copper Paid For				
Total Lead Deduction		Handling Sacks	.50	
Copper Deficiency				

ANALYSIS			DEDUCTION	NET		RATE			
Insoluble	59.4	%			%	@	5	Cts.	2.97
Silica		%			%	@		Cts.	
Alumina		%			%	@		Cts.	
Zinc	.2	%			%	@		Cts.	
Sulphur	8.2	%	1.	7.2	%	@	20	Cts.	1.00 Max.
As Sb		%			%	@		Cts.	
Bi		%			%	@		Cts.	
Iron		%			%	@		Cts.	
Lime		%			%	@		Cts.	
TOTAL DEDUCTIONS									9.60

NET VALUE PER TON 31.71

			DEBITS	CREDITS
Total Value on 3.195	Dry Tons @ 31.71 Per Ton			101.31
Less Freight on 3.765	Wet Tons @ 4.55 Per Ton	17.13		
Less Freight on Sacks Returned	Frt. prepaid	13.24	3.89	
Less Demurrage	Switching			
Less Umpires	Frt. On Sacks returned Lots 2123-2151	.70		
Less Duties and Brokerage	Charged on Lot 2123	.60	.10	
BALANCE DUE SHIPPER			97.32	
			101.31	101.31

MADE BY CHECKED CORRECT APPROVED

FORM 2-A 25M 1-30 PH

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Sp ng Creek Leasing Company EL PASO, TEXAS. December 3, 1930.

ss Phoenix, Arizona. SHIPPING POINT Globe, Arizona. SMELTER LOT 2178

CLASSIFICATION Conc. SHIPPER'S LOT 9

CAR		WEIGHT IN AVOIRDUPOIS POUNDS					
NO.	INITIAL	GROSS	SACKS No.	SACKS Weight	NET WEIGHT	MOISTURE %	DRY WEIGHT
Truck		7920	106	160	7760	12.4	6798

N. Y. METAL QUOTATIONS		
SETTLEMENT DATE	11-24-30	
SILVER	35425	CTS. PER O
LEAD	$ 5.10	PER 100 LB
E. & M. J. COPPER	10244	CTS. PER L
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD	.68	oz.						oz.	20.00	13.60	
SILVER	13.5	oz.				95	12.825	oz.	35425	4.54	
LEAD	8.7	%	1.5	7.2	144	95	136.8	LBS.	3.70	5.06	
COPPER	.75	%	.5	.25	5.0	90	4.5	LBS.	.05244	.24	
TOTAL PAYMENTS FOR METALS											23.44

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	3.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	

Copper Deficiency

ANALYSIS			DEDUCTION	NET		RATE		DEBITS
Insoluble	61.8	%			%	@ 5	Cts.	3.09
Silica		%			%	@	Cts.	
Alumina		%			%	@	Cts.	
Zinc	.2	%			%	@	Cts.	
Sulphur	.4	%			%	@	Cts.	
As Sb		%			%	@	Cts.	
Bi		%			%	@	Cts.	
Iron		%			%	@	Cts.	
Lime		%			%	@	Cts.	
TOTAL DEDUCTIONS								7.09
NET VALUE PER TON								16.35

			DEBITS	CREDIT
Total Value on 3.399	Dry Tons @ 16.35	Per Ton		55.57
Less Freight on 3.960	Wet Tons @	Per Ton Prepaid	-	
Less Freight on Sacks Returned			.50	
Less Demurrage	Switching			
Umpires				
uties and Brokerage				
BALANCE DUE SHIPPER			55.07	
			55.57	55.57

MADE BY CHECKED CORRECT APPROVED

FORM 2-A 25M 1-30 PH

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS, Dec. 12th, 1930

ADDRESS Phoenix, Arizona SHIPPING POINT Globe, Arizona SMELTER LOT 2219

CLASSIFICATION Conc. SHIPPER'S LOT 10

CAR		WEIGHT IN AVOIRDUPOIS POUNDS						N. Y. METAL QUOTATIONS		
NO.	INITIAL	GROSS	SACKS No.	SACKS Weight	NET WEIGHT	MOISTURE %	DRY WEIGHT	SETTLEMENT DATE	12-2-30	
37768	SP	8440	120	160	8280	12.6	7237	SILVER	34396	CTS. PER O
								LEAD	$ 5.10	PER 100 LB
								E. & M. J. COPPER	11004	CTS. PER LB
								LONDON LEAD PER 2240 LBS	£ s d	
								EXCHANGE N. Y.		
								EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD	1.12	oz.						oz.	20.00	22.40	
SILVER	19.0	oz.				95	18.05	oz.	34396	6.21	
LEAD	8.1	%	1.5	6.6	132	95	125.4	LBS.	3.7	4.64	
COPPER	.85	%	.5	.35	7.0	90	6.3	LBS.	.06004	.38	
TOTAL PAYMENTS FOR METALS											33.63

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	4.36	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE		
Insoluble	61.8	%			%	@ 5	Cts.	3.09
Silica		%			%	@	Cts.	
Alumina		%			%	@	Cts.	
Zinc	.3	%			%	@	Cts.	
Sulphur	.1	%			%	@	Cts.	
As Sb	.75	%			%	@	Cts.	
Bi		%			%	@	Cts.	
Iron		%			%	@	Cts.	
Lime		%			%	@	Cts.	
TOTAL DEDUCTIONS								7.95
NET VALUE PER TON								25.68

				DEBITS	CREDITS
Total Value on	3.6185	Dry Tons @ 25.68 Per Ton			92.92
Less Freight on	4.220	Wet Tons @ 4.55 Per Ton	19.20		
Less Freight on Sacks Returned		Freight Prepaid	14.47	4.73	
Less Demurrage		Switching		2.25	
Less Tempires		Freight on Sacks Returned		.50	
Less Duties and Brokerage					
BALANCE DUE SHIPPER				85.44	
				92.92	92.92

MADE BY CHECKED APPROVED

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co., EL PASO, TEXAS, 1-31

ADDRESS Phoenix, Ariz. SHIPPING POINT Globe, Ariz. SMELTER LOT 2346

CLASSIFICATION Conc. SHIPPER'S LOT

CAR NO.	CAR INITIAL	GROSS	SACKS No.	SACKS Weight	NET WEIGHT	MOISTURE %	DRY WEIGHT
Truck		8105	115	120	7985	7.5	7386

WEIGHT IN AVOIRDUPOIS POUNDS

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	12-22-30	
SILVER	31825	CTS. PER O
LEAD	$ 5.10	PER 100 LB
E. & M. J. COPPER	10010	CTS. PER LB
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PERCENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD	2.49	OZ.						OZ.	20.00	49.80	
SILVER	29.3	OZ.				95	27.835	OZ.	31825	8.86	
LEAD	14.8	%	1.5	13.3	266	95	252.7	LBS.	3.70	9.35	
COPPER	.93	%	.5	.48	9.6	90	8.64	LBS.	.0501	.43	
TOTAL PAYMENTS FOR METALS											68.4

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	6.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE		DEBITS
Insoluble	49.6	%			%	@	5 Cts.	2.48
Silica		%			%	@	Cts.	
Alumina		%			%	@	Cts.	
Zinc		%			%	@	Cts.	
Sulphur		%			%	@	Cts.	
As Sb		%			%	@	Cts.	
Bi		%			%	@	Cts.	
Iron		%			%	@	Cts.	
Lime		%			%	@	Cts.	
TOTAL DEDUCTIONS								9.48

NET VALUE PER TON 58.9

				DEBITS	CREDIT
Total Value on	3.693	Dry Tons @ 58.96	Per Ton		217.74
Less Freight on	4.0525	Wet Tons @ 6.11	Per Ton	24.76	
Less Freight on Sacks Returned				.40	
Less Demurrage		Switching			
Less Umpires					
Less Duties and Brokerage					
BALANCE DUE SHIPPER				192.58	
				217.74	217.74

MADE BY CHECKED CORRECT APPROVED

FORM 2-A 20M 1-30 PH

AMERICAN SMELTING & REFINING COMPANY
EL PASO SMELTING WORKS
ORE SETTLEMENT

BOUGHT OF Spring Creek Leasing Co. EL PASO, TEXAS. Jan. 10, 1931.

ss Phoenix, Ariz. SHIPPING POINT Globe, Ariz. SMELTER LOT 2387

CLASSIFICATION Cons. SHIPPER'S LOT 12

CAR NO.	CAR INITIAL	WEIGHT IN AVOIRDUPOIS POUNDS GROSS	SACKS No.	SACKS WEIGHT	NET WEIGHT	MOISTURE %	DRY WEIGHT
24793	SP	7820	96	140	7680	11.3	6812

N. Y. METAL QUOTATIONS

SETTLEMENT DATE	12-30-30	
SILVER	31075	CTS. PER. OZ.
LEAD	$ 5.10	PER 100 LBS.
E. & M. J. COPPER	10270	CTS. PER LB.
LONDON LEAD PER 2240 LBS	£ s d	
EXCHANGE N. Y.		
EXCHANGE M. CY.		

PAYMENTS FOR METALS

ELEMENTS	ASSAY PER TON 2000 LBS.		DEDUCTED	NET ASSAY	EQUIVALENT IN LBS.	PER CENT PAID FOR	NET PAID FOR		RATE	VALUE AMOUNT PER TON	VALUE AMOUNT TOTAL
GOLD	2.76	OZ.						OZ.	20.00 35	55.20	
SILVER	28.0	OZ.				95	26.6	OZ.	31075 - 77	8.27	
LEAD	16.0	%	1.5	14.5	290	95	275.5	LBS.	3.7 6	10.19	
COPPER	1.30	%	.5	.8	16	90	14.4	LBS.	.0527 - 14	.76	
TOTAL PAYMENTS FOR METALS											74.42

DEDUCTIONS

				DEBITS	CREDITS
Regular Lead Deduction	%		Basing Charge FOB El Paso	6.50	
% Copper Paid For					
Total Lead Deduction			Handling Sacks	.50	
Copper Deficiency					

ANALYSIS			DEDUCTION	NET		RATE		
Insoluble	59.4	%			%	@ 5	Cts.	1.97
Silica		%			%	@	Cts.	
Alumina		%			%	@	Cts.	
Zinc	.3	%			%	@	Cts.	
Sulphur	.5	%			%	@	Cts.	
As Sb		%			%	@	Cts.	
Bi		%			%	@	Cts.	
Iron		%			%	@	Cts.	
Lime		%			%	@	Cts.	

TOTAL DEDUCTIONS 8.97 — 8.97

NET VALUE PER TON 65.45

			DEBITS	CREDITS
Total Value on 3.406	Dry Tons @ 65.45	Per Ton		222.92
Less Freight on 3.910	Wet Tons @ 6.11	Per Ton	23.89	
Less Freight on Sacks Returned			.34	
Less Demurrage	Switching		2.25	
Less Umpires				
Less Penalties and Brokerage				
BALANCE DUE SHIPPER			196.44	
			222.92	222.92

MADE BY CHECKED CORRECT APPROVED

PHONE: 473-3073

CERTIFICATE OF ASSAY

FOUNTAINS ASSAY SERVICE

[redacted], BOX [redacted] 806
MIAMI, ARIZONA 85539

March 14, 1980

Jim Billbe	% Copper	% Oxide Copper	Oz/Ton Gold	Oz/Ton Silver	% Lead	% Zinc	% MoS_2
Ore Sample #1 Top Tunnel Vein			.12	.42			
" " #2 Top Tunnel Vein	.36		.52	34.12			
" " #4 Botton Tunnel Vein			.03	1.14			
" " #5 Top Dump	1.34		1.20	27.30			
" " #6 Top Tunnel	2.02		2.36	32.06			
Copper Wire				Nil			

H. J. Fountain

CERTIFICATE OF ASSAY

PHONE: 473-3073

FOUNTAINS ASSAY SERVICE

RT. 1, BOX 749A
MIAMI, ARIZONA 85539

May 24, 1980

Jim Billbe	% Copper	% Oxide Copper	Oz/Ton Gold	Oz/Ton Silver	% Lead	% Zinc	% MoS_2
Ore Sample #1 DUMP			.08	.01			
" " #2			.01	.01			
" " #3	.97		.28	3.16	23.07		
" " #4			.01	Trace			
" " #5	.16		.04	.08			
" " #6			.01	Trace	.34		
" " #7			.02	27.21			

REGISTERED ASSAYER CERTIFICATE NO. 6127 HARLEY FRANKLIN MIAMI MAY 24 1980 ARIZONA, U.S.A.

SAMPLES FROM
SPRING CREEK MINE
~~PLEAS~~
SPRING CREEK DIST.
GILA Co.

PHONE: 473-3073

CERTIFICATE OF ASSAY

FOUNTAINS ASSAY SERVICE

P.O. BOX 608

MIAMI, ARIZONA 85539

March 10, 1980

Jim Billbe	% Copper	% Oxide Copper	Oz/Ton Gold	Oz/Ton Silver	% Lead	% Zinc	% MoS_2
Ore Sample #1 Vein #2			.48	3.26			
" " #2 "	5.96		.41	5.51			
" " #3 "	19.44		.12	49.28	19.88		
" " #4 "			.16	64.56	42.12		
" " #5 "	20.24		.24	61.76			
" " #6 "			.04	2.00			
" " #7 "			.06	.44			
" " #8 "			1.08	1.60	.50		
" " #9 "	1.12		.64	.88			

REGISTERED ASSAYER CERTIFICATE NO. 6497 HARLEN FRANKLIN FOUNTAIN Date Signed MAR. 10 1980 ARIZONA, U.S.A.

H. F. Fountain

PHONE: 473-3073

CERTIFICATE OF ASSAY

FOUNTAINS ASSAY SERVICE

P.O. BOX 608

MIAMI, ARIZONA 85539

March 10, 1980

Jim Billbe	% Copper	% Oxide Copper	Oz/Ton Gold	Oz/Ton Silver	% Lead	% Zinc	% MoS_2
Ore Sample #10 Vein #2	3.88		.18	4.38			
" " #11 "	.78		1.92	12.46			
" " #12 "			.06	.18	.56		
" " #13 "			.06	2.12			
" " #14 "	7.36		.22	16.62			
" " #15 "	5.36		.16	8.36			

REGISTERED ASSAYER CERTIFICATE NO. 6497 HARLEN FRANKLIN FOUNTAIN MAR. 1 Date Signed ARIZONA, U.S.A.

H. F. Fountain

Root & Simpson, Inc.
P.O. Box 8004
Boulder, Colo. 8004

Lee Behrens/Bob Lloyd

Date	Name	Elements	Amount	Date Paid	Au	Ag	Pb	Cu	Zn
12/13	#4 Stope	AuAg	9 00		0.200	1.54			
	#1 30'T. Head	AuAg	9 00		0.330	5.41			
	East Tunnel	AuAg	9 00		0.010	0.17	(Different min)		
	#7-1800	AuAg	9 00		1.120	0.46	"		
	#5B #700 Out Cluster	AuAg	9 00		0.110	14.79			
	#6 Stope	AuAg	9 00		0.220	2.34			
	Stope #2	AuAg	9 00		0.100	3.24			
	#5 (a) 18-20'Stope	AuAg	9 00		0.280	2.04			

Certified True Correct Copy
Root & Simpson Inc.
Colo.

4. Location: _____

5. Sec 36 Tp 9N Range 12E 6. Mining District Spring Creek

7. Owner: Lee Folks | Evart D. Bunger

8. Address: P.O. Box 197, Young, AZ 85554 | Rt. #1, Box A-49 Russell Road, Globe, AZ 85501

9. Operating Co.: Nicky Brite Mines Inc. % Jim Bilbe

10. Address: _____

11. President: _____ 12. Gen. Mgr.: _____

13. Principal Metals: Gold, Silver, Lead 14. No. Employed: 4

15. Mill, Type & Capacity: None

16. Present Operations: (a) Down ☐ (b) Assessment work ☐ (c) Exploration ☐
(d) Production ☒ Clean Up (e) Rate _____ tpd.

17. New Work Planned: Clean up of old workings, then production of small block of ore.

18. Miscl. Notes: Silver Ballet Company, P.O. Box 321, Young, AZ 85554 has purchased a working percentage of Nicky Brite and will finance initial operation. Principals in Silver Bullet are Lee Behrem and Bud Behrens of Colorado.

Date: February 1981

Ken A. Phillips
(Signature) (Field Engineer)

These Claims [illegible]

DOCKET 499 PAGE 326

STATE OF ARIZONA, County of Gila } ss. I hereby certify that the within instrument was filed and recorded on April 21, 19 80, at 12:20 P.M.

In Docket No. 499, Page s 326-328, at the request of Evart D. Bunger

Fee No.: 452630

INDEXED

MICROFILMED

COMPARED

PAGED

When recorded mail to:
Mr. Evart D. Bunger
Rt. 1 Box A-49 Russell Rd.
Globe, Ariz. 85501

Witness my hand and official seal.

MARY V. DE PAOLI, County Recorder

By Celia L. Campos, Deputy Recorder

Fee: $3.00 2.20 C

NOTICE OF MINING CLAIM LOCATION

1. [X] Location [ ] Amendment [ ] Relocation

2. [ ] Placer [X] Lode [ ] Millsite [ ] Tunnelsite

3. The name and address of the Locator is

Lee Folks	Evart D. Bunger
Name	
P.O. Box 197 Young, Ariz. 85554	Rt.#1 Box A-49 Russell Rd. Globe, Ariz. 85501
Address	
City	State Zip

4. The name of the claim is YANKEE DOLLAR No. 12

5. The date of the location is _____

6. The claim is 1500 feet long and 600 feet wide. The distance from the Location monument to each end of the claim is 1500 feet in a Southwest direction and 0 feet in a Northeast direction.

7. The general course of the claim is from the Northeast to the Southwest.

[illegible] in Section 35, Township 9 North, Range 12 East

Section 35 Township 9 North Range 12 East G&SRB&M
~~Section ... Township ... Range ... G&SRB&M~~
Section 1 & 2 Township 8 North Range 12 East G&SRB&M

Date APR 5, 1980

Evart D. Bunger
Signature

MAP OF MINING CLAIM LOCATION

1. The name of the claim is YANKEE DOLLAR No. 12
2. The Southeast #1 corner of the claim is 3501.8 feet in a N.36-51-47 E. direction to a survey monument or permanent natural object described as U.S. Geological Survey Bench Mark "R-70" (Elev. 4285) dtd 1933
3. The type of location monument is 2" X 2" Post in Stone Monument
   The type of corner and end monuments are 2" X 2" Posts in Stone Monuments
4. The bearing and distance between the corners of the claim are beginning at the Southeast #1 corner of the claim, 600 feet in a N.26-31 W. direction to the Northeast #2 corner, then 1500 feet in a S.63-29 W. direction to the Northwest #3 corner, then 600 feet in a S.26-31 E. direction to the Southwest #4 corner, then 1500 feet in a N.63-29 E. direction to the point of beginning.

MAP

One inch = One thousand feet

North Arrow

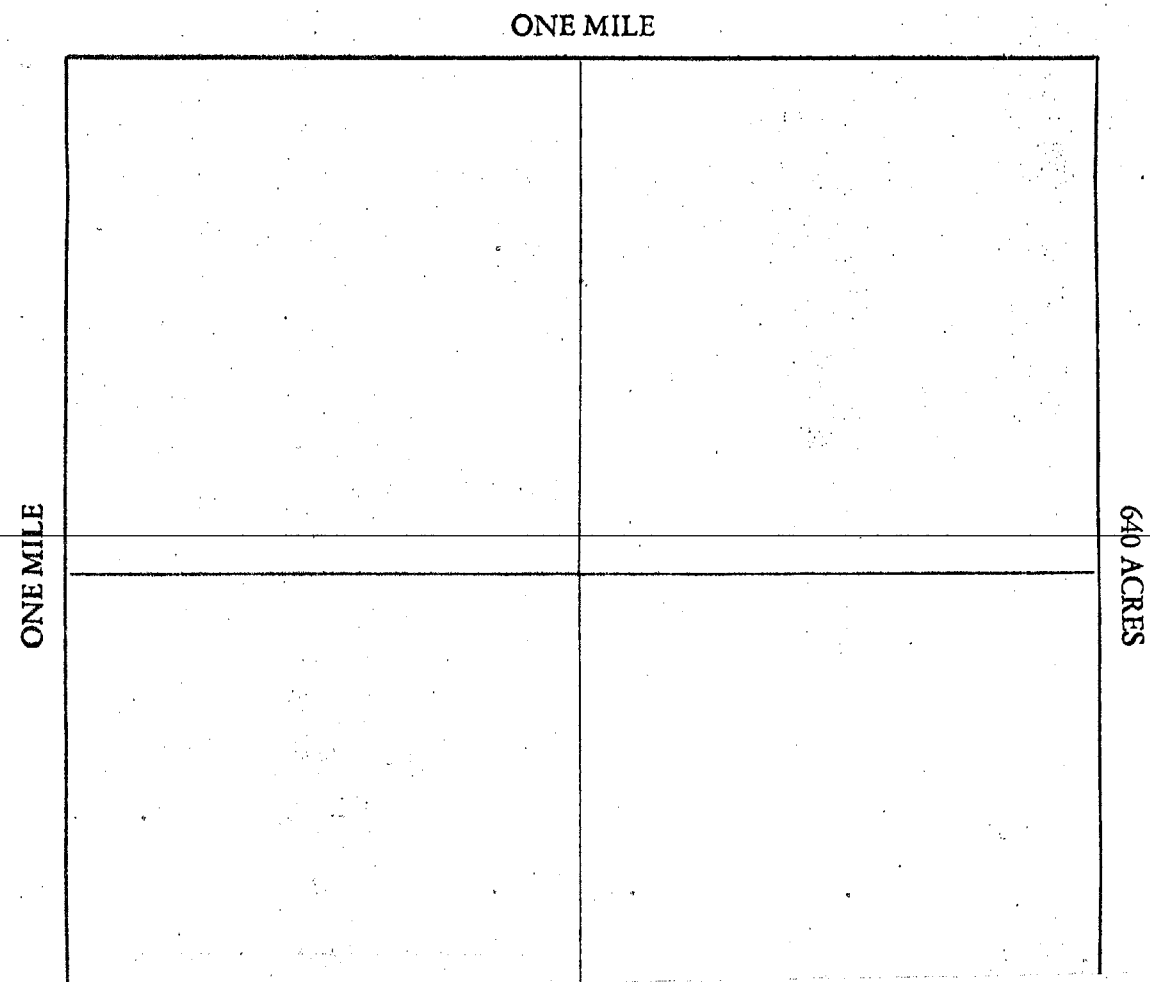


EXHIBIT A

Those unpatented mining claims situated in the Spring Creek Mining District, Gila County, Arizona, the location notices of which are recorded in the office of the County Recorder of said county in the Dockets and Pages as follows:

NAME OF CLAIM	DOCKET	PAGE	BLM SERIAL NUMBERS
Yankee Dollar #1 (Amended)	483	576-577	A MC 66561
Yankee Dollar #1	499	314-316	A MC 66561
Yankee Dollar #2 (Amended)	483	578-579	A MC 66562
Yankee Dollar #2	499	318-319	A MC 66562
Yankee Dollar #3 (Amended)	483	580-581	A MC 66563
Yankee Dollar #3	499	320-322	A MC 66563
Yankee Dollar #4	495	355-356	A MC 98676
Yankee Dollar #5	495	357-358	A MC 98677
Yankee Dollar #6	495	359-360	A MC 98678
Yankee Dollar #7	495	361-362	A MC 98679
Yankee Dollar #8	495	363-364	A MC 98680
Yankee Dollar #9	495	365-366	A MC 98681

NOTICE OF TERMINATION

NOTICE IS HEREBY GIVEN that LEE FOLKS and EVART D. BUNGER, have terminated that certain Exploration and Option Agreement with LEAL E. BEHRENS dated as of the 30th day of October, 1981, relating to the right to purchase those certain unpatented mining claims in the Spring Creek Mining District, Gila County, Arizona, the names of which together with the docket and page where their location notices are recorded in the Office of the County Recorder of Gila County, Arizona, are set forth on Exhibit "A" attached hereto and made a part hereof.

That this termination of said agreement, as provided by its terms, was preceded by a written notice, certified mail, to LEAL E. BEHRENS, to make a past due payment in default and the allowance of not less than thirty days after his receipt of said notice to cure such default, which said LEAL E. BEHRENS failed to pay, correct, or take care of within thirty days after receipt of said notice.

DATED this 12th day of March, 1982.

DOCKET 544 PAGE 369

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
County of Gila, Aug. 19th, 19 81, at 2:45 P. M.
In Docket No. 544, Page s 369 & 370, at the request of
LEE FOLKS.

Fee No.: 474770

When recorded mail to:
Lee Folks
P.O. Box 197
Young, Arizona
85554

Witness my hand and official seal.
MARY V. DE PAOLI,
County Recorder
By Mary V. De Paoli
Recorder

Fee: $3.00
2:45
C

AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

State of Arizona } ss
County of Gila

1. Lee Folks
Name
P.O. Box 197
Young Arizona 85554
Address
City State Zip

Ernest D. Bunger
RT. 1 Box A-49
Russell Road
Globe, Arizona 85501

being duly sworn according to law deposes and says that they are a citizen of the United States more than eighteen years of age and that all of the facts set forth in this affidavit are true and correct according to the best of their knowledge, information and belief.

2. That they are personally acquainted with the mining claim named Yankee Dollar one through twelve situate in the Spring Creek Mining District, Gila County, Arizona, the location of which is recorded in the office of the County Recorder of that County in Book 483-495-499, Page 576 ET. Notice of location is posted in Section 35-36-1-2, Township T9N, Range R12E, G&SRB&M.

3. That between the dates of January 1st and February 31st at least Three Thousand Three Hundred ($3300.00) dollars worth of work and improvements were done and performed upon this claim not including location work.

EXHIBIT A

BLM Serial Number	Name of Claim	Docket Page	Notice of Location posted Section, Township, Range
A MC 66561	Yankee Dollar #1	483-pg576,577	S36, T9N, R12E
	Amended Yankee Dollar #1	499-pg314,316	S36, T9N, R12E
A MC 66562	Yankee Dollar #2	483-pg578&579	S36, T9N, R12E
	Amended Yankee Dollar #2	499-pg318&319	S36, T9N, R12E
A MC 66563	Yankee Dollar #3	483-pg580&581	S35&36,T9N,R12E
	Amended Yankee Dollar #3.	499-320&321&322	S35&36,T9N,R12E
A MC 98676	Yankee Dollar #4	495-pg355&356	S36, T9N, R12E
A MC 98677	Yankee Dollar #5	495-pg357&358	S36, T9N, R12E
A MC 98678	Yankee Dollar #6	495-pg359&360	S36, T9N, R12E
A MC 98679	Yankee Dollar #7	495-pg361&362	S36, T9N, R12E
A MC 98680	Yankee Dollar #8	495-pg363&364	S36, T9N. R12E
A MC 98681	Yankee Dollar #9	495-pg365&366	S35&36, T9N, R12E
A MC 98682	Yankee Dollar#10	495-pg367&368	S36, T9N, R12E
A MC 101913	Yankee Dollar#11	499-323,324,325	S35&36,T9N,R12E S1&2,T8N,R12E
A MC 101914	Yankee Dollar#12	499-326,327,328	S35,T9N, R12E S1&2,T8N, R12E

G&SRB&

The Yankee Dollar #1 through #12 are contiguous claim consisting of a group.

In January and February, 1981, the following work was done on Yankee Dollar Mine by Nickey Brite, Inc.: Three hundred tons of ore was extracted from a raise in tunnel "A" at a cost of $1500.00. A secondary escape route was refitted with ladders to tunnel "B" at a cost of $300.00. Ore tracks were relaid at a cost of $500.00. Air and water pipes were installed at a cost of $1000.00.

Leo Fricke

By Everett D. Bunger

MAP OF MINING CLAIM LOCATION

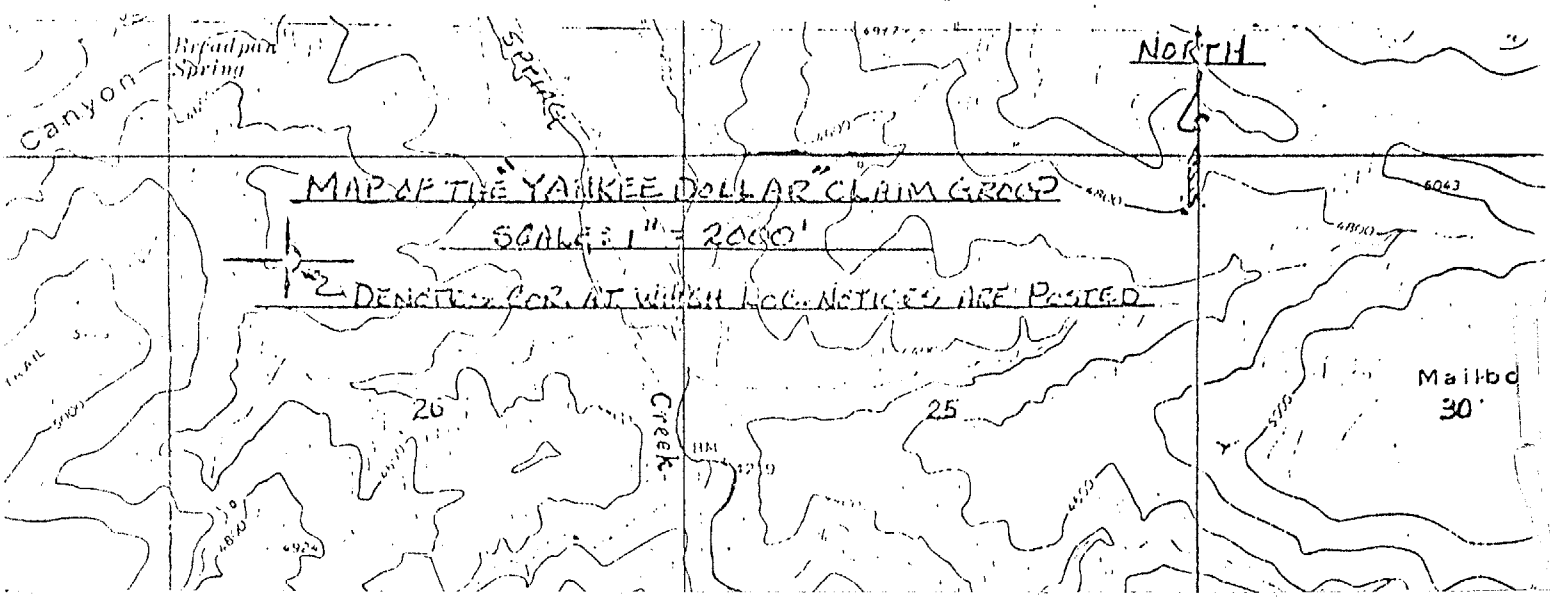
1. The name of the claim is YANKEE DOLLAR No. 1

2. The Northwest#1 corner of the claim is 977.8 feet in a N.18-50-35W. direction to a survey monument or permanent natural object described as U.S. Geological Survey Bench Mark "R-70" (Elev. 4285) dtd 1933

3. The type of location monument is 2 X 2 Post in Stone Monument

   The type of corner and end monuments are Stone Monuments 3' high

4. The bearing and distance between the corners of the claim are beginning at the N.W. #1 Cor. corner of the claim, 600 feet in a S.26-31 E. direction to the S.W. #2 Cor. corner, then 1500 feet in a N.63-29 E. direction to the S.E. #3 Cor. corner, then 600 feet in a N.26-31 W. direction to the N.E. #4 Cor. corner, then 1500 feet in a S.63-29 W. direction to the point of beginning.



Gila County Recorder Wanda Jones
Docket 499 page 2

STATE OF ARIZONA, } ss. I hereby certify that the within instrument was filed and recorded
County of _____ _____, 19____, at _____M.
In Docket No. _____, Page _____, at the request of

Fee No.: 452624

When recorded mail to:

Witness my hand and official seal.

_____ County Recorder

By _____ Deputy Recorder

Fee: $ 3.00
12.20

AMENDED NOTICE OF MINING CLAIM LOCATION

1. ☐ Location ☒ Amendment ☐ Relocation
2. ☐ Placer ☐ Lode ☐ Millsite ☐ Tunnelsite
3. The name and address of the Locator is

Lee Folks
P.O. Box 197
Young, Ariz. 85554

Name

Evart D. Bunger
Rt. #1 Box A-49 Russell Rd.
Globe, Ariz. 85501

Address

City State Zip

4. The name of the claim is YANKEE DOLLAR No. 1
5. The date of the location is September 16, 1979
6. The claim is 1500 feet long and 600 feet wide. The distance from the Location monument to each end of the claim is 1500 feet in a Northeast direction and 0 feet in a Southwest direction.
7. The general course of the claim is from the Southwest to the Northeast.

BLOCK: J & H

UNDILUTED								ASSAYS					DILUTED						
DATE	SAMPLE NO.	WIDTH	LENGTH	HEIGTH	CU. FT.	T. F.	TONS	Au	Ag	Pb	Cu	Value	NEW WIDTH	NEW TONS	NEW ASSAYS				Value
	Block "J"																		
	36	0.58	6.13	120	427	12.5	34 13/41	0.44	2.42	2.3	0.15	319.40	5º	294					37.05
	9	2.42	6.13	120	1780	12.5	142.41	0.01	1.1	2.0	–	36.52	5º	294					17.68
	35	1.00	6.13	120	735.00	12.5	58.85	0.03	1.15	3.3	0.18	61.95	5º	294					12.39
	34	0.50	6.13	120	377	12.5	29.42	0.02	0.14	0.5	0.08	19.20	5º	294					1.92
	6	1.92	6.13	120	113	12.5	112.99	0.56	0.37	5.6	–	380.27	5º	294					146.02
	33	1.00	6.13	120	735	12.5	58.85	0.38	1.00	2.7	0.29	267.70	5º	294					53.54
	4	1.83	6.13	120	1346	12.5	107.69	0.03	2.60	4.6	–	89.22	5º	294					32.66
		1.83	6.13	120	1346	12.5	107.69	0.03	2.68	4.6	–	90.42	5º	294					33.09
	#1	0.67	6.13	120	493	12.5	39.43	0.16	9.8	10.8	1.60	350.60	5º	294					46.98
	#2	2.00	6.13	120	1471	12.5	117.70	0.08	0.4	1.3	–	63.12	5º	294					25.25
	4	0.83	6.13	120	610	12.5	48.84	0.001	0.2	0.1	–	4.62	5º	294					0.77
	5	0.67	6.13	120	493	12.5	39.43	0.01	2.0	0.8	–	41.62	5º	294					5.58
	6	0.50	6.13	120	368	12.5	29.42	0.60	2.8	0.9	0.26	413.50	5º	294					41.35
	7	0.34	6.13	120	250	12.5	20.01	0.001	0.3	0.5	–	8.62	5º	294					0.59
	9	0.83	6.13	120	610	12.5	48.84	0.02	1.9	0.1	0.21	45.40	5º	294					7.54
	10	1.00	6.13	120	735	12.5	58.85	0.13	1.6	1.5	0.15	115.50	5º	294					23.10
	11	1.00	6.13	120	735	12.5	58.85	0.14	5.2	5.8	0.42	211.00	5º	294					42.20
	14	1.25	6.13	120	920	12.5	73.56	0.14	4.7	2.9	0.75	224.80	5º	294					56.20
	15	1.00	6.13	120	735	12.5	58.85	0.14	3.2	14.4	0.23	237.40	5º	294					47.48
	16	0.87	6.13	120	639	12.5	51.20	0.35	0.5	0.1	0.25	223.95	5º	294					38.84
	18	1.17	6.13	120	860	12.5	68.85	0.20	0.3	0.1	0.18	128.80	5º	294					30.14
	20	0.25	6.13	120	184	12.5	14.71	0.15	3.65	4.3	0.43	183.45	5º	294					9.17
	29	0.08	6.13	120	59	12.5	4.71	0.14	0.43	1.1	0.08	99.75	5º	294					1.59
	32	0.50	6.13	120	367	12.5	29.42	0.58	6.12	1.42	1.02	470.14	5º	294					47.01
"J"	Total	1.00	147	120	76388	12.5	1414.71	0.164	2.050	3.528	0.199	157.78	5º	7066					31.56
				Block H															
"K"	Total	1.00	147	170	23240	12.5	1999.3	0.164	2.050	3.528	0.199	157.78	5º	9996					31.56
TOTAL																			

2-17-81

ESTIMATOR: HMC CM

UNDILUTED								ASSAYS					DILUTED						
DATE	SAMPLE NO	WIDTH	LENGTH	HEIGTH	CU FT.	T. F.	TONS	Au	Ag	Pb	Cu	Value	NEW WIDTH	NEW TONS	NEW ASSAYS Au	Ag	Pb	Cu	Value
		BLOCK "H"																	
	42	0.25	7.50	120	225	12.5	18.00	0.72	0.88	0.15	0.13	448.85	5.0	360					22.44
	41	0.34	7.50	120	306	12.5	24.48	0.64	0.32	0.15	0.58	401.45	5.0	360					27.30
	40	0.42	7.50	120	378	12.5	30.24	0.72	0.36	0.3	0.17	442.90	5.0	360					37.20
	13	3.0	7.50	120	2700	12.5	216.00	0.01	0.10	0.3	—	9.62	5.0	360					5.77
	39	0.25	7.50	120	225	12.5	18.00	0.03	0.17	0.3	0.07	24.05	5.0	360					1.20
	38	0.25	7.50	120	225	12.5	18.00	0.27	0.47	0.15	0.07	171.05	5.0	360					8.58
	8	2.67	7.50	120	2403	12.5	192.24	0.20	1.1	0.4	0.001	139.32	5.0	360					74.40
	37	0.67	7.50	120	603	12.5	48.24	0.85	7.21	1.20	0.17	629.95	5.0	360					84.41
Total	"H"	0.98	60.00	120	7065		565.20	0.24	1.11	0.39	0.06	164.58		2880					32.26
		BLOCK "I"																	
"I"	Total	0.98	60.00	135	7938	12.5	635.04	0.24	1.11	0.39	0.06	164.58		3240					32.86
TOTAL																			

COE & VAN LOO

ESTIMATOR

RESERVE CALCULATION

MINE NAME: Spring Creek
LEVEL: 4307
BLOCK: F&G

UNDILUTED								ASSAYS					DILUTED		NEW ASSAYS				
DATE	SAMPLE NO	WIDTH	LENGTH	HEIGTH	CU. FT.	T. F.	TONS	Au	Ag	Pb	Cu.	Value	NEW WIDTH	NEW TONS					Value
	4	0.50	3.67	120	220	12.5	17.62	0.58	4.10	8.9	3.0	531.80	5.0	176.16					53.18
	2	3.83	3.67	120	1686	12.5	134.94	0.58	4.1	8.9	—	472.00	5.0	176.16					364.41
		1.00	3.67	120	440	12.5	35.23	0.03	0.70	1.4	—	38.32	5.0	176.16					7.66
	50	1.92	3.67	120	845	12.5	67.65	0.46	1.80	3.0	0.11	326.20	5.0	176.16					125.26
	1	3.17	3.67	120	1396	12.5	111.69	0.84	1.10	1.2	—	528.92	5.0	176.16					335.34
		2.0	3.67	120	880	12.5	70.46	0.02	0.20	3.8	—	41.62	5.0	176.16					16.65
	49	1.33	3.67	120	585	12.5	46.86	0.47	1.45	0.8	0.06	310.55	5.0	176.16					82.61
	47	1.00	3.67	120	440	12.5	35.23	0.05	1.65	0.7	0.07	61.85	5.0	176.16					12.21
	12	4.0	3.67	120	1761	12.5	140.93	0.03	9.10	8.1	—	211.22	5.0	176.16					168.98
	46	3.25	3.67	120	1431	12.5	114.50	0.06	13.92	17.2	0.19	369.00	5.0	176.16					239.85
	48	0.34	3.67	120	149	12.5	11.98	0.89	0.45	0.4	0.45	552.55	5.0	176.16					37.57
	45	3.75	3.67	120	1651	12.5	132.12	0.002	6.46	6.7	0.41	138.20	5.0	176.16					103.65
	44	1.08	3.67	120	475	12.5	38.05	0.07	0.44	0.7	0.26	58.70	5.0	176.16					12.68
	10	0.83	3.67	120	365	12.5	29.24	0.01	0.30	0.3	—	12.62	5.0	176.16					2.10
	43	0.58	3.67	120	255	12.5	20.43	0.22	0.28	0.15	1.35	164.25	5.0	176.16					19.05
Block F		1.90			12579		1006.93	0.267	4.637	6.071	0.184	275.93		2642					104.85
Block G		1.90	60	112	12,768	12.5	1021.44	0.267	4.637	6.071	0.184	275.93		2688					104.85
TOTAL																			

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BLOCK: D & E

		UNDILUTED						ASSAYS					DILUTED						
DATE	SAMPLE NO	WIDTH	LENGTH	HEIGTH	CU. FT.	T. F.	TONS	Au	Ag	Pb	Cu	Value	NEW WIDTH	NEW TONS	NEW ASSAYS				Value
Block D	7	0.50	10	60	300	12.5	24.00	0.13	0.37	0.05	Tr	83.92	5.0	240					8.39
		0.34	10	60	204	12.5	16.32	0.42	1.94	0.10	0.05	282.80	5.0	240					19.23
	64	0.25	10	60	150	12.5	12.00	0.02	0.84	0.20	0.10	28.00	5.0	240					1.40
	74	0.34	10	60	204	12.5	16.32	0.15	0.71	0.40	0.24	108.25	5.0	240					7.36
	61	1.42	10	20	284	12.5	22.72	2.11	8.16	0.49	0.22	1396.23	5.0	80					396.53
	60	2.25	10	20	450	12.5	36.00	0.90	7.34	1.80	0.21	666.90	5.0	80					300.11
	59	2.17	10	20	434	12.5	34.72	0.30	12.06	1.10	0.08	370.20	5.0	80					160.67
	58	3.00	10	20	600	12.5	48.00	0.61	7.84	6.60	1.55	560.80	5.0	80					336.48
	12	1.25	20	40	1000	12.5	80.00	0.35	13.50	11.90	0.90	513.80	5.0	320					128.45
	13	1.0	20	40	800	12.5	64.00	1.64	7.39	1.78	0.65	1120.31	5.0	320					224.06
Block D		0.922					354.28	0.750	8.077	4.261	0.59	612.96		1920					173.03
Block E	14	2.25	6.0	50	677	12.5	54.12	0.81	15.40	1.30	—	726.12	5.0	1200					326.75
	57	2.50	6.0	50	750	12.5	60.00	0.01	10.89	0.70	0.61	185.70	5.0	120					92.85
	56	2.25	6.0	50	677	12.5	54.12	0.07	18.07	8.80	2.51	424.85	5.0	120					191.18
	15	3.25	6.0	50	975	12.5	78.00	0.24	4.40	0.80	[illegible]	215.62	5.0	120					140.15
	55	1.67	6.0	50	501	12.5	40.08	0.15	3.47	—	—	142.08	5.0	120					49.45
	54	1.50	6.0	50	450	12.5	36.00	0.21	2.23	0.80	0.13	167.65	5.0	120					50.30
	53	1.75	6.0	50	525	12.5	42.00	0.15	2.45	0.80	1.00	153.05	5.0	120					53.57
	52	0.75	6.0	50	225	12.5	18.00	0.15	2.87	2.90	—	149.87	5.0	120					22.48
	51	2.25	6.0	50	675	12.5	54.00	0.26	0.86	0.70	0.10	175.80	5.0	120					79.11
	4	0.50	6.0	50	150	12.5	12.00	0.58	4.10	8.90	3.00	531.80	5.0	120					53.18
Total	E	1.87			5605		448.92	0.246	7.299	2.018	0.581	283.23	5.0	1200					105.92
TOTAL																			

COE & VAN LOO

ESTIMATOR: N MC

Registered Professional Engineer (Civil) CERTIFICATE NO. 7091 CALVIN C. COLLIN Date Signed 2-11-91 ARIZONA, U.S.A.

Page 30 of 1

RESERVE CALCULATION

LEVEL: 4307
BLOCK: C & C1 & C2

UNDILUTED													DILUTED						
								ASSAY:	Au 0.600 Ag .15	Pb 0.35 Cu 1.00			NEW	NEW	NEW ASSAYS				
DATE	SAMPLE NO	WIDTH	LENGTH	HEIGTH	CU. FT.	T. F.	TONS	Au	Ag	Pb	Cu	Value	WIDTH	TONS					
C-2	?	0.83	10.0	38.0	315	12.5	25.23	0.04	0.80	.20	0.30	30.40	5.0	152					8.37
	?	1.92	10.0	38.0	729	12.5	58.37	0.36	24.40	.61	0.45	633.70	5.0	152					243.24
	89	1.42	11.0	38.0	593	12.5	47.48	0.23	6.80	.21	0.05	500.70	5.0	167					142.20
	88	0.83	11.0	15.0	137	12.5	10.96	1.86	0.66	.37	0.20	1155.80	5.0	66					191.86
	87	0.58	4.0	15.0	35	12.5	2.78	2.14	1.23	.115	0.65	1323.50	5.0	24					153.53
	3	2.00	4.0	15.0	120	12.5	9.60	0.26	3.00	.350	—	225.52	5.0	24					90.21
	86	0.67	4.0	10.0	26	12.5	2.14	0.35	—	.850	0.10	271.52	5.0	16					36.38
T.	67 2	0.75	7.0	11.0	57	12.5	4.62	0.13	0.37	.005	Tr	83.92	5.0	31					12.59
	66	0.33	8.0	11.0	29	12.5	2.32	0.42	1.94	.010	0.05	282.80	5.0	35					18.66
	64	0.25	10.0	11.0	28	12.5	2.20	0.02	0.84	.020	0.10	28.00	5.0	44					1.40
	14	0.34	15.0	11.0	56	12.5	4.49	0.15	0.71	.040	0.24	108.25	5.0	66					7.36
	Block C2	1.09			2127		170	0.49	10.12	.483	0.25	486.03	5.0	770					104.91
C-1	62	1.00	5.65	75	424	12.5	33.90	0.17	8.26	.110	0.35	289.60	5.0	169.5					57.92
	61	1.42	5.65	75	602	12.5	48.14	2.11	8.16	.649	0.22	1396.23	5.0	169.5					396.53
	60	2.25	5.65	75	953	12.5	76.28	0.90	7.34	.180	0.21	666.90	5.0	169.5					300.11
	59	2.17	5.65	75	919	12.5	73.56	0.30	12.06	.110	0.08	370.20	5.0	169.5					160.67
	63	1.00	5.65	75	423	12.5	33.90	3.78	13.64	.18	0.41	3383.16	5.0	169.5					656.63
	4	4.50	5.65	75	1906	12.5	152.50	2.30	12.4	.12	—	1574.42	5.0	169.5					1416.98
	58	3.00	5.65	75	1271	12.5	101.70	0.61	7.84	.66	1.55	560.80	5.0	169.5					336.48
	14	2.25	5.65	75	953	12.5	76.28	0.81	15.4	.13	—	726.12	5.0	169.5					326.75
	57	2.50	5.65	75	1059	12.5	84.75	0.01	10.84	.07	0.61	145.70	5.0	169.5					92.85
	56	2.25	5.65	75	953	12.5	76.28	0.07	18.07	.18	2.51	424.85	5.0	169.5					191.18
	15	3.25	5.65	75	1377	12.5	110.18	0.24	4.4	.08	—	215.62	5.0	169.5					140.15
	55	1.67	5.65	75	708	12.5	56.61	0.15	3.47	—	—	142.08	5.0	169.5					47.45
	54	1.50	5.65	75	636	12.5	50.85	0.21	2.23	.08	0.13	167.65	5.0	169.5					50.30
	53	1.75	5.65	75	741	12.5	59.33	0.15	2.45	.09	1.00	153.05	5.0	169.5					53.57
	52	0.75	5.65	75	317	12.5	25.43	0.15	2.87	.04	Tr	149.87	5.0	169.5					22.48
	51	2.25	5.65	75	953	12.5	76.28	0.26	0.86	.07	0.10	175.80	5.0	169.5					79.11
Total C1		2.09			14195		1212.26	0.79	9.96	.239	0.45	649.50		2887					271.49
Volume Mined		2.09	95	60	11913		953.04					649.50		2280					
Ballance		2.09					259.22	0.79	9.96	.239	0.45	649.50		607.					271.49
Block C		2.09	140	45			1053.26	0.79	9.96	.239	0.45	649.50		2520					271.49
TOTAL																			

COE & VAN LOO

ESTIMATOR: [illegible]

RESERVE CALCULATION

MINE NAME: Spring Creek
LEVEL: 4 307
BLOCK: A & B

Pb 0.35 Cu 1.00
ASSAYS Au 600 Ag 15 Gross

UNDILUTED													DILUTED						
DATE	SAMPLE NO	WIDTH	LENGTH	HEIGTH	CU. FT.	T. F.	TONS	Au	Ag	Pb	Cu	Value	NEW WIDTH	NEW TONS	NEW ASSAYS				Gross Value
	85	0.08	7.50	100	60	12.5	4.88	0.250	0.87	Tr	0.40	177.06	5.0	300					2.74
	84	0.34	7.50	101	252	12.5	20.18	0.003	0.43	Tr	Tr	8.28	5.0	303					0.56
	83	0.34	7.50	109	272	12.5	22.24	0.003	0.35	Tr	Tr	7.06	5.0	327					0.48
	82	0.58	7.50	112	487	12.5	38.96	0.850	0.59	1.15	0.15	529.90	5.0	336					61.47
	81	0.83	7.50	115	718	12.5	57.48	1.660	0.82	Tr	0.17	1011.71	5.0	345					167.94
	80	0.50	7.50	119	446	12.5	35.70	1.660	0.76	Tr	0.38	1015.01	5.0	357					101.50
	79	0.25	7.50	123	230	12.5	18.45	0.140	0.44	Tr	0.12	93.01	5.0	369					4.65
	78	0.25	7.50	125	234	12.5	18.75	0.820	0.42	Tr	0.25	503.31	5.0	375					25.17
	77	0.17	7.50	126	157	12.5	12.85	0.210	0.59	Tr	0.15	137.86	5.0	378					4.69
	76	0.67	7.50	127	638	12.5	51.05	0.920	3.48	Tr	0.90	622.21	5.0	381					83.38
	75	0.92	7.50	128	880	12.5	70.66	0.050	0.19	Tr	0.11	35.06	5.0	384					6.45
	74	0.17	7.60	129	161	12.5	13.16	0.990	0.41	Tr	0.17	603.56	5.0	387					20.52
Total	"A"	0.43					364.50	0.749	0.927	0.124	0.263	469.43		4242					40.37
							Block "B"												
	71	0.34	6.38	130	282	12.5	22.56	1.16	0.17	Tr	1.80	734.56	5.0	332					49.95
	70	0.34	6.38	130	282	12.5	22.56	1.22	0.50	Tr	0.52	749.91	5.0	332					50.99
	73	1.00	6.38	130	830	12.5	66.35	2.11	1.39	Tr	0.88	1304.46	5.0	332					260.89
	72	0.17	6.38	130	141	12.5	11.28	0.37	0.87	Tr	1.89	272.86	5.0	332					9.28
	69	0.34	6.38	130	282	12.5	22.56	Tr	0.08	2.15	Tr	2.87	5.0	332					0.20
	68	0.58	6.38	130	481	12.5	38.48	0.18	0.34	Tr	0.14	115.91	5.0	332					13.45
	67	0.50	6.38	130	415	12.5	33.18	0.13	0.37	2.05	Tr	83.92	5.0	332					8.39
Total	"B"	0.47					216.97	0.964	0.665	1.024	0.634	601.22		2322					56.57
TOTAL																			

Registered Professional Engineer (Mining)
CERTIFICATE NO. 7001
COCHISE
Date Signed 2-17-81
ARIZONA

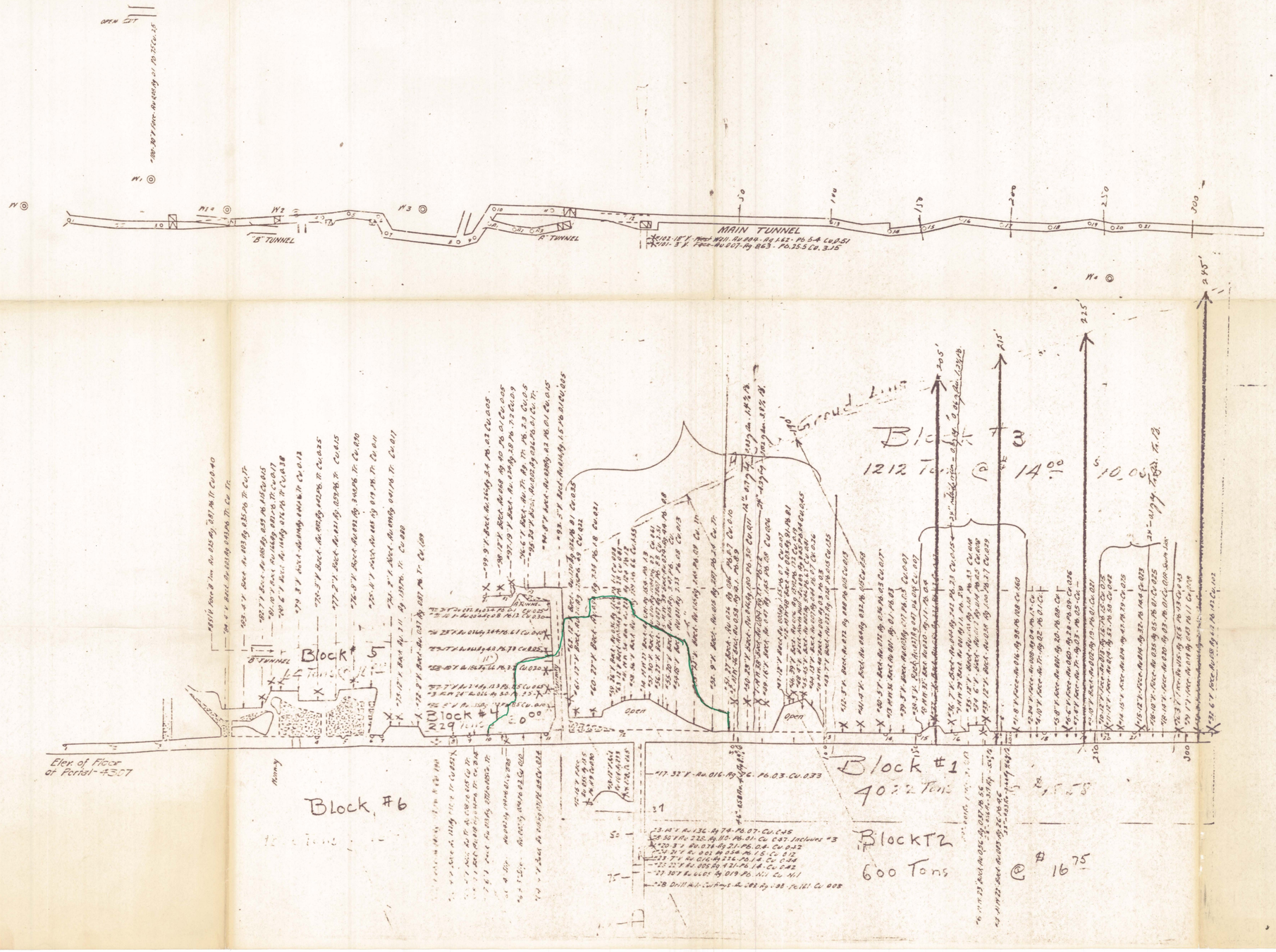
Page 1 of 7

RESERVE CALCULATION SUMMARY

MINE NAME: Springcreek
LEVEL: 4307
BLOCK: Summary

Basis of Values Gold $600/oz Silver $15/oz Lead $0.35/lb Copper $1.00/lb

UNDILUTED													DILUTED						
								ASSAYS				Gross	NEW	NEW	NEW ASSAYS				Gross
DATE	SAMPLE NO	WIDTH	LENGTH	HEIGTH	CU. FT.	T. F.	TONS	Au	Ag	Pb	Cu	Value	WIDTH	TONS					Value
		Avg		Avg	Probable		Reserves												
BLOCK	"A"	0.43	96	110.53			365	0.749	0.927	0.124	0.263	469.43	5º	4242					40.37
	"B"	0.47	52	110.99			217	0.964	0.665	0.024	0.634	601.22	5º	2322					56.51
	C-2	1.09	42	46.42			170	0.490	10.120	4.830	0.250	486.03	5º	770					104.91
	C-1	2.09	96	16.14			125.9	0.790	9.960	2.390	0.450	649.50	5º	432					271.49
	D	0.922	88	54.54			354	0.750	8.077	4.261	0.59	612.96	5º	1920					113.03
	E	1.87	53	56.50			448	0.246	7.299	2.018	0.58	283.23	5º	1200					105.92
	F	1.90	53	125.00			1007	0.267	4.637	6.071	0.184	275.93	5º	2642					104.85
	J	1.00	147	120.23			1414	0.164	2.050	3.528	0.199	157.78	5º	7061					31.56
	H	0.98	60	120.11			565	0.240	1.110	0.390	0.060	164.58	5º	2880					32.26
Total Prob		0.90					3800	0.40	3.80	2.40	0.31	$320	5º	23,500					$5.7
							Possible Reserves												
Block	C	2.09	140	45	12.5		1053	0.790	9.960	2.390	0.450	649.50	5º	2520					271.49
	G	1.90	60	112	12.5		1021	0.267	4.637	6.071	0.184	275.93	5º	2688					104.85
	K	1.00	147	170	12.5		1999	0.164	2.050	3.528	0.199	157.78	5º	9996					31.56
	I	0.98	60	135	12.5		635	0.240	1.110	0.390	0.060	164.58	5º	3240					32.26
Total Poss		1.28					4700	0.34	4.25	3.40	0.23	$295	5º	18,400					$57.6
TOTAL																			



	Tons	@	Total
Block #1 (1.N)	4022	18.55	[illegible]
" #2 (0.5)	600	16.75	10,050.00
" #3 (0.5)	1212	14.00	16,968.00
" #4 (1.0)	229	30.00	[illegible]
" #5 (0.47)	64	16.00	1,088.00
" 6 (0.41)	1000	16.00	16,000.00
Total	7762	17.00 Abt	132,240.00

ASSAY PLAT
BALD EAGLE MINING CO-SPRING CREEK DIVISION-GILA COUNTY-ARIZ
Scale: 1 IN = 30 FT. April 1, 1929
LEGEND